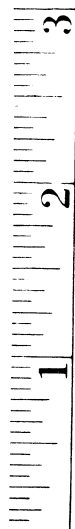


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# PALLAS ARMATA,

OR

Militarie Instructions for the Learned:

*And all Generous Spirits, who affect the Profession of Armes.*

THE FIRST PART.

*Containing the Exercise of Infanterie, as well  
Antient, as Moderne: Wherein are Clear'd up  
all the Postures and Motions, belonging to Battailions of Foote.*



Printed at Edinburgh by the Heires of Andro Hart, 1627.

TO THE RIGHT HONO-  
RABLE, and NOBLE LORD,

JOHN Earle of Rothes, LORD Leslie, &c

MY Noble LORD,

It is not unknown to Your Lo. what perfect cōcord is  
betwene Mars and the Mules, and how much the  
Brave & renowned Persons of Antient times were endued with  
the knowledge, both of Letters and Armes, that both in Peace  
& Warre, they might be serviable unto their Countrie: Epami-  
nondas, Themistocles, Aristides, Phocion, Aicibiades,  
and manie other Brave Grecians, As also Fabius, Cato, Piso,  
Pompeius, and manie other excellent Romans can beare  
witnesse: But the Grecians did excell all Nations in both, and  
were the first, that out of a long practice & experience, reduced  
the knowledge of Armes to an Arte, and gaue instructions for  
right exercising and due ordering of a Battel: for which effect,  
they had Schoole-Masters called *Tactici*, who taught the Arte  
Militarie: whose precepts the (a) Romans themselves thought  
no disparagement to put in practice, & commit to writ: Where-  
fore a well governed Common-wealth, ought to haue a care, so  
to instruct her Children, that they may be steadable to Her both  
in Peace and Warre: And a well affected Subject ought to en-  
able himselfe, to doe service to his Countrie, by the studies, both  
of Mars & Minerva. Hence is it that I, although least in power,  
yet not the last in affection, haue euer endeuoured to enable my  
selfe to seruemy King and Countrie, both by Booke and Sword,  
and applyed my minde in my Trauels, to learne and practise all  
that I could in the Arte Militarie: wherin, what I haue obtained  
by mine own experience, studie, or conference with learned Soula-  
diers, I haue adventured to publish for the vse & benefite of my  
Countrie-men, and chiefelie of my fellow Lawyers, not so much  
that I think any Workes of mine worthie of light, but onely to

(a) Veget.  
de re milit.  
lib. 3. in  
Prologo.

stir up

# THE EPISTLE DEDIC.

*stir up those of better spirits to do more perfectly in this subject. This Treatise I haue presumed to Dedicate vnto your Lo. in respect the matter doeth much become You, as well for the martial Vertues already shining in You, as for the Simpaty that your honourable Birth and Nobilitie hath with this subject of which I treat, being Warre and Armes: VVarre, the exercise of true Courage and Fortitude, the Aric and pastime of Kings & Princes, the Theatre of Honour and Glorie: And therefore a fitt Court for your Lo. to walke into, who aimes at nothing, but what is Noble, Heroicke, and Glorious. And moreover, your Lo. being not onlie a Faworit of Mars but also of Minerva, hauing your minde equally affected, & perfected in the studies, both of War & Peace (alithough your yeares and the quietnes of bypast times, in the first, hath not reelded you much experience) deserueth to bee crowned, as well with the Laurell as the Oliue and therefore fullie chosen by me to be a Protector to Armed Gunnes men, seeing most iustlie, yee deseruet to bee a Tutelar Patron to men of both professions; So that men of Armes ought to offer vnto You, as to their Mars, & men of learning ought their vowes vnto You, as to their Apollo. Pirhus, Hannibal, & Iulius Cæsar, the brauest Generals that euer liued, were both learned, & Martiall, & did use the Penne no lesse, than the Pick as their memorable exploites, & their choise writtings doe testifie: The works of Cæsar are amongst our hâds: the writtings of the other two, are perished by the iniurie of time, but were extant in the days of (b) Eliâ, Plutarch & Æmilius Probus. Great Alexander himself is not renowned so much for his many Diademes, as that he did deelyte in the vnderstading of the Acroamaticke Sciences: Of those Heroicke Spirits Your Lo. is a liuelie image, who trading their honourable steppes, deeth imitate them both in learning and Martiall courage. I will not beeie speake of the compleatnesse of your other eminent Graces and Vertues, wherewith yee are endued farre aboue your yeares (without any blemish of vice:) of your beautifull Personage, your admirable Brudence, your rare & pregnat Wit, Your gracious affabilitie, and*

(b) Elian.  
Tact. lib. v.  
cap. 1.  
Plutarch. in  
Pirro. & in  
Hunib.  
Æmil. Prob.  
in Hannib.

# THE EPISTLE DEDIC.

*and courtesie, the onclie token of a true Noble mind, your zealous affection to doe service to your KING and your Countrie, Your forwardnesse to assift and advance all honourable enterprises, your singular judgement and vnderstanding in affaires of all Natures, and the rest of your eminent and conspicuous Vertues, whereby Yee adorne and decore your Noble Race, which is one of the most Antient, and most Illustrious of our Kingdome: So that I may boldlie affirme, that Your Lo. in the Hight and Aboundance of all Honourable and Heroicke Vertues, doeth Excell, and Shine amongst the rest of the Nobilitie of our Age.*

Sicuti inter Stellas,

Luna Minores.

*And therefore, how can I who am <sup>quodammodo</sup> but lone and admire in You, that <sup>παραστάς</sup> which most gloriously shineth in You, to the admiration of all men. I haue offered these instructions to your Lo. vew and protection, that vnder the shadow of your name they may bee sheltered from the envious censure of the Crittickes of our time, who are more readie to reprove, than to amend, to carpe, than to set forth of their owne. Neither doe I offer this tribute to your Lo. as to adde anie thing vnto your knowledge, whose minde is plentifully enriched with the perfection of all noble Artes, and Sciences, But onlie to testifie my humble and bound ductie to your Lo. For, the honour that I haue to be tyed to Your Lo. by Blood, being descended of your House, by my Grandmother, deeth oblish me to consecrat all my endeavours vnto You. Vouchsafe then My Thrise Noble Lord, out of your grations generositie, fauourable to accept, and protect this poore Present of mine, and to esleeme the Author thereof to bee for euer.*

Your Lo. most humble  
and affectionate Servant,  
T. K.

## To His Fellow Advocates.

**Y**EE are not forgetfull (worthy Colleagues) when I entered into your Societie: how I spake of the great Harmony that was betwene Mars and Minerva, and the necessitie of their coherence, although the Ignorant vulgar conceive in them, a great repugnance and contrarietie: And how that I coming from my travells, where I had studied to better my minde, aswell with the knowledge of Armes as of letters, and had laboured to approune my selfe such a one.

*Quem fora pacatum bellantem castra decerent.*  
did enter in iudiciariam Palastram, where with you I might  
Exercere Togatam,

*Munera Militia: — & sine Sanguinis haustu,*  
*Mitia legitimo sub iudice bella movere.*

But now the tymes are changed, according to the Dispensation of the Almighty, and ever-turning vicissitude of the World: The Temple of Ianus which hath bene long shut, is now opened, & there is an Invasion threatned by the Enemies of this Kingdome: It is your partes to put off your Gownes, and to take the Sword in your hands for defence of your Country: Yee are Patrons of all men in this State, and with your tongues yee defend their Lands, & their goods as your Clients, and ought yee not aswell to prone Patrons to them, when not their goods and their Lands, but their lives, and their libertie are in question, & not theirs, but your owne also: & not only theirs and yours, but the Honour of our Prince, the safetie of our Country, the standing of our State is in danger: Nunc pro aris & focus dimicandum est. Yee have examples of this, in Ancient times, and all well governed Common-wealthes had their men ready for both: The fountaine of Greeke eloquence Demosthenes (to omit Pericles, Themistocles, Alcibiades, Epaminondas, and many other Brave Grecians, who did excell both in learning and faits of Armes) was a resolute Souldiour and did use the Sword for defence of his Countrie (although Plutarch most unistly, blasphemeth his courage, with the note of couardice at Thermodon) and did behaue himself very valiantly in all exploits, as he shewed at the taking in of (a) Pilus from the Lacedemonians, & in overthrowing the Peloponnesians, who exceeded him farre in number. All the

(a) Polyemus Strabo, lib. 3. in Demost.



*Grave Romā Orators: The Fabii, Camilli, Scipiones, Pisones, &c. were also expert Souldiers, and being In utraque militia sagata & togata pariter exercitati did as good service to their Country in time of warre with their Swords, as they did in time of peace in their Robbes. And there was none of eminencie amongst them that did not enable him selfe to bee such a one, who*

*Si bella vorabant,*

*Miles erat, si pax positis toga gestiat armis.*

*Cato was a grave Orator and brave Souldier, and did write of the Arte Militarie. Plutarch in his life setteth downe his valiant actes against Antiochus & testifies of his learned writings*

(b) Veget de re. milit. lib. 2. cap. 3.

*(b) Vegetius sayeth thus of him: Cato ille maior cum & armis invictus esset, & consul exercitum sepe duxisset, plus se reipublicæ credidit profuturum si disciplinam militarem conferret in literas, Nam unius ætatis sunt res quæ fortiter fiunt, quæ vero pro utilitate Reip. scribuntur æterna sunt: And in another place, he citeth (c) his Books, de disciplina militari, which by*

(c) Veget de re. milit. lib. 1. cap. 15.

*inurie of time are perished. The Prince of Latine Oratours him selfe if he had not bene sufficientlie instructed in the knowledge of Armes, hee could never have acted his part so bravely in preserving the Common-wealth from the coniuration of Catiline: And having the Roman Armie committed unto his charge in Cilicia did wisely & valiantlie carie him selfe in all exploits, and gained such notable victories at Amanus, that he was declared Imperator, & a Triumph*

(d) Put in Cicero.

*(1) decreed unto him by the Senat, which out of a humble modestie hee refused. A short narration of this, ye shall finde in his owne (e) Epistles: And in diuerse of them, hee stileth him selfe M. T. Cicero Imperator: That hee did alike worthilie beaue him selfe in his Armes as in his Gowne for his Countrey, ye shall see the testimonie of Cato in an Epistle to him: (1) M. Cato. M. Cicero. Imp. ratori. S. P. D. Quod & Resp. me & nostra amicitia hortatur libenter facio, ut tua in virtutem innocentiam diligetiam cognitam in maximis rebus, Togati domi, Armati foris, pari industria administrari gaudeam. Calphurnius Piso, descended of the Noble and warlike house of the Pisones To whom it is saide, Ar. norumque decus præcedere forensibus actis, was him selfe a brave and renowned Warriour, and also such a fauour & eloquent Orator, that how much hee did by his discourse in pleading, raiſh the heart of the Iudge, and by his forceable speeches moue his minde to sorrow, ioy, anger, or any passion hee pleased, may be seene in these words,*

*Laudibus*

(g) *Laudibus ipsa tuis resonant fora: nam que ubi Piso Iudicis affectum, possessaque pectora tentas Vinctus sponte sua sequitur quocunque vocasti, Flet si si. re libet, gaudet gaudere coactus, Et te dante capit iudex si non habet iram.*

(g) Lucan. ad Pisonem

*And thereafter,*

*Quis non attonitus iudex tua respicit ora?*

*Quis regit ipse suam nisi per tua pondera mentem.*

*I will give you but one instance of our owne dayes: Brane Desguierres, so much beloued of Henrie the Great, the late French King, was an Advocat in the Parliament of Aix, and finding that hee might bee also steadable to his Countrey by the Sword, did take Armes, and by long and fortunate service came to that perfection of the arte Military, that for his martiall valour he was both honoured at home, by receiving the Supream Dignitie of his Kingdome, & was also such a terrour to the Enemies of his Countrey, that I have seene them affright their children, with the name of Aldiguera. But what doe I talke of Mortalitie? The fountaine of all Artes and*

(h) Exord. chap. 15. ver. 3.

*Sciences, The Eternall Him selfe is a Souldier as the (h) Scripture sayeth: The Lord is a Man of Warre, His Name is Iehovah. But I will goe further on with you, and evidentlie prone the profession of Armes, not onelie to become your profession & stile to bee ioyued therewith, but also to bee farre more Noble & more excellent, then yours, or any other else: I will not produce Testimonies from martiall men, least ye reiect them as partia, but I will bring an irrefragable conclusion from him, whose sentence I hope ye will not decline, and it is from your owne Doctor and Master, who although out of an inconsiderat Poeticall humour, did cry, Cedant arma togæ: Yet when hee was in his owne settled and wise disposition, hee freely confessed the veritie, and sayeth. (i) Ac nimirum (dicendum est enim quod sentio) Rei militaris virtus præstat ceteris omnibus, hæc nomen populo Romano, hæc huic urbi æternam gloriam peperit, hæc orbem terrarum parere huic imperio coegit. Omnes urbanæ res, omnia hæc nostra præclara studia, & hæc forensis laus & industria, latent in tutela, ac præsidio bellicæ virtutis: And immediatlie before, hee said; Multo plus affert dignitatis res militaris quam juris civilis gloria; Vigilas tu de nocte ut tuis consultoribus respondeas, ille ut quo intell. mature cum exercitu perveniat; te gallorum, illum buccinarum cantus exluscitat, tu actionem instituis, ille*

(i) Cicero in Orat. pro L. Muræna

le aciem instruit, tu caves ne tui consultores, ite ne urbes  
 aut castra capiantur. And a little thereafter, Summa dignitas  
 est in iis quæ militari laude antecellunt, Omnia enim quæ  
 sunt in Imperio & in statu civitatis, & iis defendi & firmari  
 putantur: summa enim utilitas, siquidem eorum consilio &  
 periculo cum reput. tum etiam nostris rebus perfui possi-  
 mus: What can be better and more truelie saide for the Dignitie  
 & Excellencie of Militarie profession? Since then the carying of  
 Armes is a thing so Noble, so Generous, so besitting your profession,  
 I doubt not but yee will all applie your mindes to the understanding  
 and practise of the Arte Militarie: For yee have Strength, Cou-  
 rage, Iudgement, Learning, and other qualities besitting a perfect  
 Souldier: and in this yee adde great praise and happinesse to your  
 Countrie: Seeing (h) Nihil est neque firmitus, neque laudabilius,  
 neque felicius republica in qua abundant milites eruditi: I  
 have set downe some Militarie instructions for your use, which I  
 have learned by sight and practise abroad in my Travells, or by dis-  
 course of learned Commanders, or by my owne reading: Whereby I  
 doe not presume to instruct You, whose knowledge exceedeth mine in  
 all things, but onlie to stirre up you of greater gifts, than I, not onlie to  
 take the Penne and publish more perfectlie in this kinde, but also to  
 put the same in practise, as I have done, either abroad, or at home, for  
 service of your Countrie. For Bellona and Minerva are my two  
 Mistresses, whom I have this long time equallie Courted, whose Ser-  
 vice I have with equall affection prosecuted, although of them I  
 have obtained but small Favours, being alwayes infortunate in my  
 love: Yet if anie of you of better merite wil give attendance vpon them,  
 yee may bee better rewarded, and in this love, I will not enuye, but  
 will cherrish my Corrivallies, and shall bee readie to impart to anie  
 the small favours which I have received: So that at this time I have  
 set downe in the first part of my Treatise, as copiouslie & perspicu-  
 ouslie as I could, the moderne Exercise of Infanterie, and hath clear-  
 lie described all the Postures and Motions belonging to Companies,  
 of Foote, together with their use, and manner how to performe them,  
 and hath illustrate them by precepts of the best Tacitist writers, A-  
 lian, & the Emperour LEO, giuing you their owne wordes, & con-  
 firming them by examples of practise, of the braverst Greeke Com-  
 manders, to show you a conformitie betweene the Auncient Milit-  
 rie Discipline and our Moderne. I doubt not therefore (worthie  
 Colleagues) but yee will follow out reallic, that which I have aimed  
 at

(h) Veget.  
 de re milit.  
 lib. 1. c. 13.

at: & hereafter accustom your selues to doe service to your Coun-  
 trey as well by the Sword as the Gowne, Seeing it is a thing so Gene-  
 rous, so Honourable, & so convenient for your calling: I speake not to  
 Base Spirits, whose onelie happinesse is to live in a brutish sensualitie,  
 and to deride all Vertue: But to the Generous minded, who by follo-  
 wing Vertue: and doing actions worthie of memorie; are desirous,  
 Ipsorum ut vivat post funera fama,

Those I love, those I honour, to those I offer my endenours, and  
 to those I will bee while I live.

An affectionate Friend  
 and Servant,

T. K.

To

## To the indifferent Reader.

**N**OBLE, worthe, and courteous Reader: although I haue set out this Treatise, principally for the use of my Fellow-Lawyers, citing the chiefe instructions and termes of *Ælian* and *Leo* (the best Masters of the *Arte Militarie*) in their owne Idioms; yet I haue had a care to put the same passages in our language for the use and profite of those who vnderstand not the Greeke tongue, and haue set downe a plaine description of all the *Motiones* of Infanterie, with a demonstration of them in figures, so that I thinke they shall be facile and perspicuous to the meaneſt capacitie, whereby I hope the Noble and worthy-minded Reader shall be allured, not only to a further vnderstanding of *Martiall* exercise, but also animated to put the same precepts in practise for the well and seruice of his Country. For I hope, hee is not ignorant of the worth and dignitie of the *Arte Militarie*: and how much It, and the professors thereof, haue euer bene esteemed in the World. (a) *Lycurgus* in his Lawes did Ordaine, that no Epitaph should bee made, nor no mans Name remembred vpon his Tombe, except of him who had bene a Soldier; esteeming them only worthy of memorie. When the ſeueral Provinces of *Grecia* sent their Ambassadors to (b) *Artaxerxes*, King of *Persia*, he preferred *Pelopidas* & the *Theban* friendship to the rest, because hee heard they were the best Souldiers, & best practised in the fates of Armes: not respecting the wealth & power of the Athenians, Spartans, & other Cities. *Philip* of *Macedone* King of a poore Country, by exactly learning the Exercise of Armes, & practising a new militarie discipline invented (as some say) by himselfe, did not only free his Kingdome from the oppression of the *Pceonians* & *Illirians*, but also subiected the most goodly rich Provinces and Cities of *Grecia* to his Crowne: So that making a preparation against the *Persians*, he died, and left his young Sonne *Alexander* successor of his Kingdome, and of his Designes, who beeing carefulle instructed by his Father in the discipline of Armes, and surpassing him farre in martiall valour, Vt *Telamonem* *Ajax* vt *Pelea* vicit *Achilles*, did not only execute his Fathers designes against *Darius*, by overthrowing him in two great Battells, but also in a shorte time did overcome and subdue the most populous Kingdomes of *Asia*; And by

(a) *Plutar.*  
*in Lycurgo.*

(b) *Plutar.*  
*in Pelopida.*

terre

terror of Armes, made all the World to tremble at his Name. The Romans rose from nothing to bee Masters of the World, by no other meanes, but a continuall Exercise of Armes: and when through lazinesse, they left off their use, they were ouer-runne, by the barbarous *Goths* and *Vandals*: And in the time of their Imperiall Governement, how many were there, who by *Militarie* vertue, did rise from a meane Birth and condition to Supream Honours, yea, to Sway the Imperiall Scepter? As *Severus*, *Pertinax*, *Valerius*, *Aurelianus*, *Maximinus*, & many other, whom ye shall finde in Historie. The *Suyzers*, a basse mechanicke Nation, of little account, beeing provoked by *Charles* of *Burgundie*, to take Armes against their will, like *Oxenigenorant* of their owne strength, hath euer since continued in that course, & hath gained such credite & reputation amongst *Christians* Princes, that the mightiest of them are glad to buy their friendship at a great price. Our Neighbour the States of the vniited Belgick Provinces, latelic were reputed, a dull, poore, lazie people, But by taking Armes, and maintaining the professors of Armes, they haue not only vindicated themselves from subiection to a mightie and powerfull Master, and gained Libertie, (which if it were not in our Age would seeme incredible) But haue come to such a height of wealth, and power, that they are extremely redoubred by their Enemies, and respected by their Friends. Hence it was, that our Heroicke King *ROBERT* the First of most famous memorie, left in His Testament, that our Scots should neuer make a long Peace with *Englā*: knowing well, that the Exercise of Armes was the onely meanes to maintaine our Credite, Honour, and Libertie, and that the desertude thereof was the losse of all. Since then the benefite of the *Arte Militarie* is such, that the poore haue grownerich, the weake strong, the vile and abiekt, valorous and of good Fame: Since it is the onelic meanes to Conserue the Honour and Libertie of a Nation, I hope there are no worthie and Generous mindes, but will apply themselves to *Militarie* exercise, and take Armes, if not for other ends, yet for defence of the Honour and Libertie of their Countrey, now when it is in danger: And I hope they will spend their Blood before they suffer this our Antient and Noble Kingdome, which hauing euer bene *Externi* *immunis Domini*, out-braues the rest of the Nations of the World, with *Nunquam* *viſa*; now to be subiected, and to fall in the hands of any forraigne vsurper. A well governed Common-wealth in time

of Peace, will prepare for Warre, knowing the course of the world, to bee still subiect to change and alteration ( resembling the ebbing and flowing of the Sea . ) & constant in nothing but inconstancie; yea, a well Sealed Minde in time of Prosperitie will prepare for Adversitie, Metuens alteram sortem : How much more ought we, now, when the Time of Peace is gone, and the Dayes of Warre come upon vs, when a fearefull Invasion is threatened by a mighty and powerfull Enemy; Now to rouse up our Spirites, and prepare for Resistance: Shall wee bee still sloughly secure, and lye in a lavish senselesse, without making any addresse for Defence? Where is the Ancient Vigour of our Scottish Blood? Where are those, who not onely at Home, defended their Libertie against forraigne Hostilitie, limiting the proude Roman Triumphes at our Borders, & repressing the Furie of the Goathes, Danes, & Vandals, But also assisted their Friends, and Allyes abroad? Where are those, without whom, Nulla unquam Francis Fulsit victoria castris? Those ( I say ) who put Crownes upon Kings their distressed Friends heades: Those ( I say ) who at the Conquest of Italie, were alwayes the first in acquiring, and last in surrandring, when aduerse Fortoune brought necessitie, ( although that assistance bee now by them, ingratfullie buried in oblivion: ) Where are all those Brave Spirits now in this Age? Now ( I say ) when not our Friends & Allyes stand in neede of our helpe: But the Daughter of our King, the Sister of our Deare Sacred SOVERAIGNE, is in extreame distresse: The true and linelie Image of his owne Goodnesse, & Graciousnesse, A Princesse, although suppressed by Fortune, yet of Her selfe worthie, to whom the World should ascribe, and on whom the Heavens should bestow, the highest Degree of Glorie, and Felicitie, that Humane condition is capable of: whose Worth no Lynes can expresse, nor Fame duelie report of, Being endued with all Royall Graces and Vertues, and cheifely with an Invincible Fortitude of Minde, in the midst of Her Calamities, farre above the Condition of her Sexe: Shee is by the consent of all; The Flower of Princes, The Grace of Queenes, and The Queene of Graces, The Delight of the World, the Glorie of Her Sexe, yea, by confession of Her owne Enemies, The Jewell of Europe; & A Princesse whose rare Vertues are so infinite and eminent, whose Maiesticall Carriage is so sweete and so Gracious, that I dare avouch, Neuer Eye did see Her, whose Heart did not admire and adore Her. And when Her so many Princelie Children partake Her Calamities, But above the rest, That most Hopefull

Hopefull Prince Fredericke, Her first Borne: A Plant, out of which all Hersicke Vertues doe budde; Adorned with all Princelie Qualities, of a singular activitie in all exercises of bodie becoming His Highnesse, Of an Admirable Iudgement and Vnderstanding in all Noble Sciences, farre above His Age; Hee is of so rare Hopes, and such exquisite Perfections, that I cannot remember Him without Admiracion: I wish my Penne were as able to expresse Their due praises, as my Sword shall be reddie to Redresse their Wrongs: Can a true hearted Brittain line in Securitie, and thinke of the Distresses, of those Princes? Can a Minde anie wayes affected to Grace, & Vertue, not be commoued to see the very Temple of Vertue defaced? Can neither the duetie which wee owe to those afflicted Princes, nor the Safetie of our owne Countrie, moue vs to take Armes? Shall wee bee still slow in advancing the affaires of the Magnanimous and Invincible KING of Denmarke: a Prince, who for his Royall Courage, His Incomparable Valour, His Completnesse in all Martiall Vertues is to bee paralleled with the Greatest Kings and Princes, and Brautst Generalls that ever lived: who hath adventured His Life, His Crowne, His Posteritie, for our Quarrell, our Safetie, and Restitution of these distressed Princes: who by His onelie power with-holdeth the Enemies Forces from falling upon vs: Shall wee then be still insensible of our owne Danger, and of the Obligation which wee owe to this Most Valorous KING? Shall wee contribute nothing to the furtherance of those levyes, which our Most Sacred SOVERAIGNE, out of the Duetifull respect which hee ought to Him, and the tender Love which Hee carries to His Deare Sister, and the Earnest Care which Hee hath of our safetie, has granted unto Him: O let it never bee said! and let the aversenesse of sundrie from this Service bee amended, that they may ischew the note of Disloyalty to their King and Countrie, and of ill affected mindes to these Princes: I cannot likewise, but remember with due Praises those two Worlde and Generous minded Noble-Men, who have left their Ladies, their Children, their estate in this Countrie, and with extreame diffcultie, and great charges, have lifted their Regiments, and have consecrated their Fortunes, Blood, and lifes, for the Service of their King, their Countrie, and those afflicted Princes, under the Banner of that Most Valorous CHRISTIAN Generall: and also all those Worthie Gentle-men, who have accompanied them in this expedition, as well Officers, as private Souldiers: And likewise all others

other Noble-Men, Gentle-men, and well affected Subjects, who have bent their whole power to further and advance those Levies: What praise is due unto their merit? and with what Commendation ought they to bee extolled? Let their Fame live for ever, and the Sinceritie of their mindes bee knowne to all those who are interested in our Querrell. The example of those Brave Spirits (Noble and worthie Reader) I hope will allure You, either to follow them, that yee may bee partaker of their Honour, (for I assure You that our Countrie-men, both with that Magnanimous KING, and with all other Princes and States for their Militarie Valour are more respected, than other Nations;) or at least to Dedicate your selves to a daylie understanding and exercise of Armes at home, that yee may bee able and readie to doe Service to your Countrie in time of Danger. I speake not to Base vulgar mindes, whom I know, no perswasions, nor examples will allure to follow Honour, who being naturallie repugnant to all Grace and Vertue, and being unprofitable burdens to the Earth, make themselves to bee esteemed unworthie of life: But to You, whose Noble Mindes breathe after all Honourable and Vertuous Designes, who carie an upright and well affected heart to your Countrie, who are alwayes readie to purchase her Quietnesse by painefull Industrie, her Honour with effusion of Your Blood, her Safetie with losse of your lifes: It is You, whom I exhort, It is You, whom I affectionatelie honour, and to whom I will ever approue my Selfe.

Your most duetifull  
 Servant,  
 T. K.

D. THOMAE KEL LIE

Equiti Aurato, Libellum eruditum,

De Re Militari edenti, Simul &

in Militiam, cum Mandato Serenissimi

Regis proficiscenti.

**S**I bene de Patria meruitque & Casare, leges,  
 Qui Martis doctas rettulit in tabulas?  
 Pro REGE & Patria, atque aris, sudore cruento  
 Pugnasse, extremus si sit Honoris Apex?  
 Gloria quanta tua est, nostram qui in praelia Gentem  
 Pectore Marvorti, & ducis & arte doces?

Aliud.

**S**Cinditur in partes pro Marte, & Pallade mundus;  
 Palmam pro genio, dat fere quisque suo:  
 Vincat uter, par erit Semper tua Laurea, sive  
 Cedant arma toga, seu Litera, lituo.

R. Balcanquall.

# PARAINETICON.

**P** Oore Rhene, and canst Thou see,  
 Thy Natiues Gore Thy Christall Curles deface;  
 Thy Nymphes so bright which bee,  
 Halfe-Blackamores embrace,  
 And (dull'd with Grapes) yet not resente Thy Case?  
 Fallen are Thy Anadeames,  
 O of such goodlie Cities Famous Flood;  
 Dimm'd bee Thy Beauties Beames,  
 And with Thy Spoyles, and Blood,  
 Hell is made-rich, prowd the Iberian Brood.  
 And Thou faire Europes Queene,  
 Which hast with Lillies deckt your purple Seate;  
 Can Thou see those haue beene  
 Sterne Cometes to Your State,  
 On Neighboures Wracke to grow so hugelie great?  
 Looke how much Iber gaines,  
 By as much lessened is Your flowrie Throne;  
 O doe not take such paines  
 On Bartholomewes alone,  
 But seeke to reacquire your Pampelone.  
 Braue People, which endwell  
 The happiest Ile that Neptunes armes embrace,  
 World, which doth yet excell  
 In what first Worlds did grace,  
 Doe neuer to base seruitude giue Place.  
 Marshall your Wits and Armes,  
 Your Courage whett with Pittie and Disdaine;  
 Your deeme your Allies Harmes;  
 All lose or reobtaine,  
 And either Palme or fatall Cypresse gaine.  
 To this Great Spirits Frame  
 If moulded were All Mindes, all Endeoures,  
 Could Worth thus All inflame,  
 Then not this Ile were Ours  
 Alone, but all betwene Squares golden Bowres.

W. DRYMOND. of Hatfield

TO THE RIGHT WOR-  
 shipfull, His Deare Friend,  
 Sr. Thomas Kellie Knight.

**VV** HO reades these Taciticks (Old new Arte of Warres)  
 Must rauish'd rest, although he knew no more,  
 But knowing Thee an Aetor in these Iarres,  
 And Thine Adventures, must Thee more adore:  
 Essentiall life This to Thy Booke doth lend,  
 Whilst that Thine Hand performes, what Wit hath pend.

Thou makest Pallas truelie to confesse,  
 A Corset, than a Gowne, now fits Her better:  
 The Thracian God his precepts doth expresse  
 In learned tearmes, and restes for this thy Debter,  
 And Themis euer silent 'mongst Alarmes  
 Speakes lowde by Thee, an Advocat in Armes.

A Thousand wayes Thou doest display Thy Worth,  
 Honour'd of Mars, still honouring Apollo:  
 Braue, learn'd, All where Thy Vertues Beames burst forth,  
 Belon'd of Kinges; O! who Thy Steppes can follow?  
 This Sympathie makes mee aboue all other,  
 Admire Thy Valour, loue Thee as a Brother.

Sr. G. Keith. Knight.

To the Right Worſhipfull  
*St. Thomas Kellie*, Captaine, &  
 Gentle-man of His MAJESTIES  
 Privie Chamber.

EPIGRAM.

**M**ars and Mineiva both in one Conſpire,  
 To make the Worlde, Thy high Attempts admire:  
 Each day Thou'art ſcene, to trace the two-fold Way,  
 Which leades to Honours, ſweete, Immortall Bay:  
 For by Thy Vertue, Thou haſt raiſ'd againe  
 Thy blaſted Stemme, which Envy's breath had ſuine,  
 Thou from the Aſhes of Oblivion riſe,  
 And by Your Worth and Vertues climes the Skyes:  
 To King and Countrie, Thine affection deare,  
 Claimes on the Frame of Fame the higheſt Spheare,  
 Artes, Armes, are onelie Thy propoſed Aime,  
 To make Thee gaine a Great and Glorious Name:  
 Since Thy Brave Minde affects ſuch Noble Things,  
 Thy Praise yet more ſhall flow from Mouthes of Kings.

ANAGRAMS.

Sir Thomas Kellie } Lo, Mars is lik Thee,  
 } or als like Themis.

**N**Ames, oft agree with Fates, Thy Heav'n-bred Name,  
 Lo, Mars is lik Thee, doeth expreſſe the ſame,  
 Or als like Themis; Theſe make All to know,  
 The diuerſe Giſtes Heav'ns doe on Thee beſtow,  
 The Juſtice and the Courage they Thee gine,  
 Shall make Thy Fame Eternallie to line.

W. Forbs.



OF THE ARTE MILITARIE.  
Of Foote-men, and their Arming:  
Of drawing of them into bodies.

Tit. 1.

**T**AKTIKH, or the Arte Militarie is (a) *Leo* defined by the Emperour *Leo* to bee *Tacticor.*  
Επιστημη πολυμικων κινήσεων, *A Science of* cap. 1 § 1.  
*warelike motions*, and thereafter (b) *τεχνη στρα-* (b) *Leo*  
*την παρατοξίας και διαταγών και κινήσεων στρατιωτικων.* *ibid.* § 2.

*Generals Arte of framing of Battels, and of Mi-*  
*litarie motions and Armes.*

(c) *Ælian* the moste accurate of *Tacticke* (c) *Ælis*  
writers citeth the former out of *Æneas* his *an Tact.*  
booke of *Tacticke*, which by the injurie of time cap. 3.  
hath perished.

The preparations for Warre, are of two  
forts (saith the Emperour (d) *Leo* and (e) *Ælian*) (d) *Leo.*  
Ἡ δὲ πρῶτη τῶν κατὰ γῆν μαχημάτων, ἡ δὲ δεύτερη τῶν κατὰ  
θαλάσσης: *The one are Land-forces, who fight-upon* (e) *Æl.*  
*Land, the other navall forces, who fight upon Sea. Tactic.*

The Levees for Land service, are two-fold, cap. 2.  
(f) *τε μὴ ἐν μαχίμῳ, καὶ ἐν τῇ τῶν χειρῶν συνδρομῇ*  
*μαχίμῳ: Some are that fight, some are that fights* (f) *Vter-*  
*not, but cometh for their use that fights: as* *que, ibid.*  
*Physicians, Clarkes, Merchantes, Chirur-*  
*gians, Women, and all those that follow the*  
*A Campe,*



Of the Arte Militarie.

2

Campe, for the necessarie use of the Armie.

Those who fight are either (g) πεζοι & καβαλλο-  
(g) *Vier-* *que. Ibid.* *que.* Foote men, or Horse-men. I will treat  
at this time of foote-men onelie: of their ar-  
ming, ordering, and exercesing.

The Foote-men then are either (h) ἰπλιτοι or  
φίλοι armed, or naked, that is, heauie armed  
or light armed: as for the πελταστοι I reckon them  
(h) *E-* with the light armed:  
*lian.*  
*Ibidem.*

The ὀπλιται had a compleat armour coue-  
ring the bodie, called, κατεσπαστα and an ασπίς or  
Target for defence: and a long σαρισσα or Picke  
of (i) 14. some of 16. cubits long, which is 21.  
or 24. foote, for offence. The light armed had

(i) *Elia* for offensive armes onelie Arrowes, Deartes,  
*Tactic. c.* and Slungs. The Roman heauie armed, called,  
14. *Scutati*, was of three sortes, *Hastati*, *Principes*  
& *Triarii*. The light armed, called, *Velites*,  
were *Sagittarii funditores* and *ferentarii*. How

they were armed, see (k) *Vegetius* (l) and *Poly-*  
(k) *Veget* *de re mi-* *bis*; for I will not burthning this short Treas-  
*litari lib.* tise with citations of antiquities, my purpose  
2. cap 15 being to treat onelie of the Militarie disci-  
16. pline vsed in our dayes.

(l) *Polyb.* Yee shall therefore knowe that our Pickes-  
*Hist. lib.* men and our Musquetiers serueth in place of  
16. *Secl.* the Greeke and Romane heauie armed, and  
8. light armed, our Pickemen resembleth their  
heauie, our Musquetiers their light armed, since  
thei nution of Artillerie.

The

Of Foote-men, and their arming. 3

The Armes which our Pickemen are ac-  
customed to carrie, are: a Head-peace, or Mos-  
rion, a Gorget or Craige-peace, a Corslet,  
or Cuirace with Taces; I haue seene some  
weare Puldrons or arme Pypes, and those are  
defensiu: his offensiu armes, are a Sword,  
and Picke of 15. foote long, shorter than the  
Grecian σαρισσα: The Armes of a Musquetier  
offensiu, are a Musquet, the Barrell of the  
length of foure foote, the bore of 12 bullets  
to the pound: Bandelier with 12 charges at  
the least, primer, bullet Bagge, and pruning yron,  
with a Rest of a length proportionable to his  
stature, and a Sword. As for defensiu Armes,  
hee hath none, although in some partes I haue  
seene them weare an Head-peace.

The Φίλοι amongst the Greekes, were orde-  
red in bodies by themselves, and had their own  
Officers, differing both in command and ap-  
pellation from the Officers of the ἰπλιται of a  
Phalanx: for a Companie of ἰπλιται consisting  
of 16. files, and containing foure dilochies, (m) *El.*  
was called, (n) σωταγμα, and the commander (m) *El.*  
of it σωταγμαρχος: But a Companie of φίλοι, 9  
consisting of as manie files, was called, (n) *Elia.*  
ἑκατονταρχία, and the Leader of it, ἑκατονταρχος, cap. 16.  
and had their owne Collours caried by their  
owne ὁμιλοφοροί, who was distinguished from  
the enseigne of the σωταγμα, the deipth also  
was but halfe so much as the other. A Regi-  
ment of armed, containing 16. σωταγματα, was cal-  
A 2 led a

led a *παλαιστριν*: and the Commander of it *παλαιστριν*: a Regiment of *παλαιστριν* containing 16 *παλαιστριν* was called a *ξενικον*, and the Commander *ξενικον*: and so forth, which all yee may see in (o) *Ælian*: The Roman *Velites*, sicke like were not comprehended vnder the maner of the Legion, but were ordered by themselves, and had their owne Commanders.

(o) *Æl. Tactic.*  
cap. 9. &  
cap. 16.

In our moderne Discipline, wee differ from them both: for our Picke-men and our Musquetiers concurre together, to make, vp one Companie, and one Regiment vnder the command of the selfe same Officers, and are alike ordered, and alike framed for seruice, and follow both of them one Collours.

All Souldiours the both Picke-men & Musquetiers, according to our Discipline are collected into Companies, Companies into Regiments, Regiments into one Armie, which are all vnder the command of a Generall (whose duetie the Emperour *Leo* sets downe through his whole Booke of *Tactikes*) Euerie Companie hath for Officers of the field: A *Captaine*, a *Lieutenant*, an *Ensigne*, (whom the English corruptlie calleth *Antient*), two *Sergeants*, three *Corporalls*, with their *Lanzpazados*: those resembleth the Officers of a Grecian *παλαιστριν*, who were *παλαιστριν*, *παλαιστριν*, *παλαιστριν*, (p) as *Ælian* sheweth.

(p) *Ælian. Tac.*  
cap. 9.

Euerie Companie hath also two *Drums* a *Furrier* for lodging the Companie, (but in the Low countries

countries the *Sergeant* dischargeth this duetie. A *Prouost*, a *Clarke*, and *Chirurgian*. Companies are not alwayes of alike number: Some haue 100. some 200. some 300. men: sicke like Regiments containeth not alwayes alike number of Companies; some haue 10. some 15. some 20. Companies; and in this wee differ from the Grecian *παλαιστριν* and *παλαιστριν* who did alwayes consist of one equall number of Files. A Regiment hath for Officers of the Fielde, a *Colonell*, a *Lieutenant Colonell*, a *Sergeant major*, and for Delinquents, a *Prouost* *marshall*, a *Quarter-master* for lodging the Regiment, a *prouiant Master* for providing of victuals, a *Chirurgian*. The Spanish Discipline admits no *Lieutenant Colonell* to a Regiment, nor *Lieutenant* to a priuate Companie, but maketh the *Sergeant major* discharge the place of the one, & the *Alfero* or *Ensigne* the place of the other. The duetie of these Officers who haue not yet learned them by practise, may reade them in a Treatise published by the illustrious (q) Count *Mansfeilde*, or at the least in his name: and in *Markhams* Epistles of war, and in findrie others, for I will onelic at this time insist in the exercising of a Foote Companie.

(q) *Count Mansf.*  
in his dis-  
positions of  
warre.

A Companie is a Bodie of men composed of Files,

A 3

Of

## 6 Of Files and Rankes.

Tit. 2.

A File or String called by the Greekes *λοχός* is defined by (a) *Ælian* *Ἀρχὴ τοῦ ἀφ' ἧς ἀρτὸς τῆς*

(a) *ἡγεμονίας ἢ τῶν μετ' αὐτὴν ὁμιλῶν ἐκαστὸν μέχρι τοῦ τελευταίου.*  
*lian* *Tact.* A number of men from one Leader, and his  
*cap. 4.* followers to the last man: and againe, (b) *σχιζὶς*  
(b) *ἢ ἐπιστάτης κατ' ἀρίστην ὑπὸ λοχίου τεταγμένης.* A row of sol-  
*lian* *Tact.* lowers placed after a Leader, euerie one according to  
*cap. 5.* his worth. We define it commonlie to be. A Se-

quence of men standing one behind another  
(c) *Μῆξις* backe to bellie. (c) Count *Mansfeilde* calleth  
*in his di-* a File which consist of 10. Souldiers armed a-  
*rect. of* like, wherof euerie one knoweth his place; all of  
*Werre* them standing in a direct Line downe-ward, be-  
hind one another, and comprehended betweene  
the Leader and the bringer vp.

The File is the deipth or thicknes of the battel.

The number of a File is vncertaine, and  
variable according to the diuersitie of Disci-  
pline of euerie Nation; and according to

occasions. (d) *Ælian* sayth, that the Files of the  
*lian* *Tact.* Grecian Phalanx were some times 8. some  
*cap. 4.* times 12, but most ordinarlie 16. deepe, yet

some times of 50 deepe, as you maye see in  
(c) *Ze-* some times of 50 deepe, as you maye see in  
*noph. hist.* (e) *Zenophon*, at the Battell of *Leuctra*, the *The-*  
*Grec. lib.* bans were ordered 50 deepe; but *Cleombrotus*  
6. 596. drew vp the *Lacedemonians* 12. deep (f) *Agessilaus*

bringing his Armie out of the straite of *Manti-*  
(f) *Zeno-* *phion d. l.* *nea*, ordered them in 9 deepe; but I thinke the  
6. num. Text bee corrupted: for all odde numbers are  
605. rejected by *Tacticks*, as vnfitte for doubling.

The

## Of Files and Rankes.

7

The Emperour (g) *Leo* giueth command to his  
(g) *Leo* Generall, to make the Files of the foote Battells  
*Tactic. c.* 16. deepe, and the front according to the num-  
4. § 94. ber of his men: But I finde in (h) *Vegetius* and  
(h) *Veget.* (i) *Polybius*, that the Files of the Roman mar-  
*de re mi-* niples consisted onelic of 10. men; the File  
*litari. lib.* 2. cap. 8. was called, *Decuria* or *Contubernium*, the Lea-  
(i) *Polyb.* der of it *Decanus*, *Decurio*, or *Caput Contubernii*.  
*hist. lib. 6.* Sect. 9.

The deipth of a File according to our mo-  
derne Discipline is 10. howfouer the Spanyards  
and the Italians maketh it incertaine: for the  
deipth of 10. is thought a sufficient thicknesse  
to receiue all charges.

Euerie man in his File is placed according to  
his worth and dignitie: The first man in digni-  
tie is first in place, and is called by (k) *Leo* and  
(k) *Leo* (l) *Ælian* *λοχίας*, *περὶ τῆς ἀρχῆς*, the Leader, or *Forestan-*  
*Tac. cap.* der: Hee hath commmandement ouer his File,  
4. § 71. (l) *Æ-*

& seeth that euerie one of them doe their duety  
(m) *Leo* both in March and Fight, and in exerceise, as he  
*cap. 5.* moueth and turneth, so must the rest of his File  
(m) *Leo* doe. The second man in dignitie is last in place,  
and is called (m) *ἑταίρος* *ἡγεμονίας* *Bringer. up*, or  
*lian* *ibid.* *Reare-commander*. Hee hath command ouer the

File next vnto the Leader, and seeth that those  
before him keepe a right Line. The third and  
fourth dignitie is in the 5. and 6. place, and  
they are called middle-men, the one middle-  
man to the Front, the other middle-man to the  
Reare. The fift, sixt, and seuenth Dignitie are in  
the 2. 9. & 4. places. The eight, ninth, and tenth

A 4

Digz

### Of Files and Rankes.

Dignitie in the 7. 3. and 8. places, as this Table sheweth.

| Number of place. |             | Number of dignitie. |
|------------------|-------------|---------------------|
| 1. 0.            | Leader      | 1.                  |
| 2. —             |             | 5.                  |
| 3. —             |             | 6.                  |
| 4. —             |             | 7.                  |
| 5. 0.            | Middleman   | 3. To the Front.    |
| 6. 0.            | Middleman   | 4. To the Reare.    |
| 7. —             |             | 8.                  |
| 8. —             |             | 10.                 |
| 9. —             |             | 6.                  |
| 10. 0.           | Bringer-vp. | 2.                  |

Joyning of Files, produceth Rankes, which is called, *συντάξις*; for if ye joine 6. Files or 8. Files together, yee make 6. men, or 8. men in a Ranke, and the more Files ye joine, the more ye extend the length of your Battell, for as the File measureth the depth or thicknesse, so doth the Ranke the length of the Battell. Those who are in one File are called *συναρτάς* and *μισατάς*, Leaders and followers. Those of one Ranke, are called, *παρτάς*, or Sidemen.

Of Ranks.

A Ranke then is, A row of men standing one by another, in a right Line, shoulder to shoulder, or as *Aelian* describeth it, *ἡ πρὸς ἑαυτοὺς ὡς ἑαυτοὺς ἰσχυρὰ* When the side-men beareth straight forth in length. The length is called *πλάτος* & it is the dimension of the Battell from the one winge

### Of Files and Rankes.

winge or Flanke to the other. The depth is called, *βάθος* and it is, the dimension of the Battell from the Front to the Reare.

The first Ranke is: A row of File Leaders, and is called, *πρῶτος τάγμας*, *Front*, *Acies*. The Front. The last Ranke is: A row of Bringers-vp, and is called, *καὶ τὰς τὰς τὰς* the Reare.

As men in their files are placed according to their worth, so are the files ranked in the Battell according to their dignitie: The first place of dignitie hath the File on the right hand, which is the right flanke. The second place hath the File on the left hand which is the left Flanke, being the tenth (if there bee onlie 10. in Ranke.) The third and fourth dignitie, hath the 5. and 6. Files, which are in the midst of the Rankes. The fifth, sixth, and seventh dignitie, hath the 2. 9. and 4. Files. The eight, ninth, and tenth dignitie hath the 7. 3. and 8. Files.

|              | Number of place.               |               |
|--------------|--------------------------------|---------------|
| Left Flanke. | 10. 9. 8. 7. 6. 5. 4. 3. 2. 1. | Right Flanke. |
|              | 0. 1. 1. 1. 0. 0. 1. 1. 1. 0.  |               |
|              | 2. 6. 10. 8. 4. 3. 7. 9. 5. 1. |               |
|              | Number of dignitie.            |               |

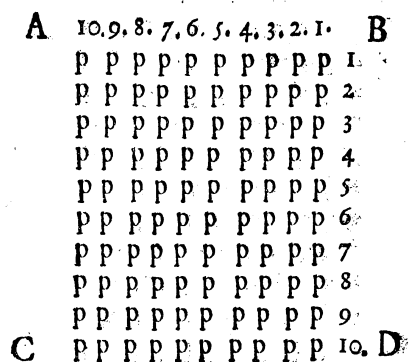
Count Mansfeilde his discourse in this varieth from his Table.

Euerie man in the first ranke is Leader of a File; euerie man in the first File is Leader of a ranke.

B

10. 9.

C. Mansf. in his Direct. of war. Pag. 31. & 32.



This Figure, A, B, C, D, sheweth you the distinction and disposition of Ranks and Files, A. B. is the Front. C. D. the Reare. B. D. the right Flanke. A, C, the left Flanke. The Lines A. B. and C. D. with the others between them, are Ranks consisting euerie one of 10 men. The Lines B. D. and A. C. with the others between them, are Files consisting euerie one of 10. men also. The number of Files, is from B to A, which is the length of the Battell: The number of Ranks, from B. to D. which is the depth of the Battell. From B. to D. are *Leaders and Followers*, from B. to A. *Side-men*.

In placing our best mē in the Frōt, of the Battell, & putting our brassest Souldiers in the Auantgarde of the Armie, we follow the custome of the Grecians, who put alwayes their choicest Souldiers, in the Front of the Phalanx; contrare to the custome of the Romans, who placed the *Maniples* of their *Hasliti* Souldiers of least experience in the Frōt of the Legion; their *principes* Souldiers of better worth in the middle; their *Triarii* the oldest Soul-

diers, and of greatest valour in the Reare, who were not to joyne with the Enemy, till the former had beene beaten or retired.

## Of Distances.

Tit. 3.

Souldiers being armed, and put in a Bodie, they must then know their distances, for all Ranks ought to bee parallel one to another, as also Files; and therefore, a Souldiers chiefe care, should bee to haue an eye to his Leader & his Sideman, that hee may keepe an equall distance both in his Ranke and File; for: not keeping of distance, breeds confusion, and oft-times is the cause of the ouerthrow of a Battell, and too much thronging together, maketh a Souldier vnable to use his Armes, too much standing remoued, weakneth the Battell, and maketh way to the Enemy to breake it: as (a) *Vegetius* pertinentlie admonisheth. *Nec ultra magis quam expedit aut conglobent agmen aut laxent; nam constipati perdunt spatia pugnandi & sibi in vice impedimento sunt; & rariores atque interlucentes adiutum perrumpendi hostibus prastant.* Wherefore due distances are the midit betwixt those extremities.

Distances than in our moderne Discipline by the opinion of the most learned Commâders are three, *First*, *second*, and *third* distance or *open Order*, *order* and *close Order*.

*Open Order* or *first Distance*, is when your men both in Ranke and File stand remoued sixe foote

B 2

from

(a) *Veget.*  
*de. re. Militari.* lib. 1.  
cap. 26.

from another. This distance containes *αρχη* A. or 4. cubits in square; at this distance yee are to exercise your Companie.

*Order or second distance* is when they stand removed 3. foote both in Ranke and File one from another: this distance is used, when ye embattell your Troupes, and lead them against the Enemie, or when yee come to stand, or meane to wheale the Bodie. This distance is called of the (b) Greeks *συστάσις*, *Densatio*, and taketh vp 2. cubites, that is three foote, as the former did 4. cubites, for a cubite is a foote and an halfe: Obserue that when your Companie marcheth, they must keepe 3. foote betweene Files, and 6 foote betweene Ranks.

*Close Order or third distance*, is when your Souldiers stand a foote and an halfe removed from file to file, and 3. foote from Rank to Ranke, and this distance is onely for Pickemen, when they charge, or receiue the charge of the Enemie: For the musquetiers are neuer to bee closer, than three foote in square, because they must haue a free use of their Armes. (c) *Aliau* calleth this distance *συστάσις* *Constipatio* or a *joining of Targets together*, and taketh vp a cubitt. There is also a *double Distance*, or *open open Order*, which containeth 12. foote betwixt ranks and files; and is used when ye march toward a Forte, to let the shotte goe through the files: and when ye double your files by conuersio.

Now the measure of those Distances cannot be taken iustlie by the eye; but the Souldier to learne them must accompt the distance of sixe foote to bee betwixt file and file, when the Souldiers stretch out their armes, toucheth one anothers hands:

(b) *Aliau*  
*Tact. c. 11.*

(c) *Aliau*  
*Tact. c. 11.*

hands: and betwixt ranks, when the endes of their Pickes come well neare to the heelles of them that march before: As for the musquetiers, they must keepe leuell with the Pickes: And the measure of the 3. foote betwixt the files, is whe their Elbowes toucheth one another, betwixt ranks, when they come vp to touch one anothers Swords; The measure of a foote and an halfe betwixt files, is when they joyne shoulder to shoulder.

Manie Commanders holdes that *open Order* is not fixe foote in square, but is 12 foote in ranke, and 6. in file; *Order* 6. foote in ranke, and 3. in file: but I leaue euerie man to his owne opinion: For it is in militarie Discipline, as in all others Sciences: *Certant doctores & adhuc sub iudice lis est.* Alwayes the former opinion is most receiued.

What Distance and intervall the Romans used betwixt the *Maniples* and *Cohortes* of their *Legions* (d) *Veget.* *de re Militari lib. 3. cap. 15.*

(d) *Veget.*  
*de re Militari lib. 3. cap. 15.*

## Of Marching.

Tit. 4.

After that a confused Bodie of men is orderlie digested into files and ranks, and that euerie one of them knoweth their Distance; the next thing of consideration is how to make them march in due order.

All marches are either in *Battell array* or by *dispositions*.

I will not here touch the Grecian marches, *παρατάξις*, *κατατάξις*, *συντάξις*, *ἀντατάξις*, *ἀντατάξις*, *ἀντατάξις*, *ἀντατάξις*, the knowledge wherof I remitte the Reader to find

B 2

in.

(a) *Alian*  
*Tactic. cap.*  
35. & cap.  
36. 37, 38.  
& sequent.

in (a) *Alians* Tactikes, but will onelie speake of the ordinarie marches used now a-dayes. Suppose then that yee haue a Companie of men consiting of 200. whereof the one halfe are Pickes, and the other musquetiers: and yee would draw them vp in Battell. You must first know what should bee the length of your Battell, that is, How many men ye should put in ranke, the deipth already knowne 10. which is speedilie done thus: Diuide your whole number 200. by the deipth 10. the *quotus* beeing 20. sheweth you the length of your Battell, so that you haue 20 in ranke, and therefore your Battell consisteth of 20. Files; 10. deepe. Of those 20. Files, 10. are Pickes, 10. musquetiers: which you shall dispose after this manner. Set your 10 Files of Pickes altogether: diuide your 10. Files of musquetiers, and draw them vp, fise of them vpon the right hand of the Pickes, and the other fise vpon the left hand of the pickes, all fronting equally, so that the Bodie of your Pickes shall bee flanked, with your musquetiers vpon the right and left, as you see in the Figurs following, where P. signifieth the Pickemen, and M. the musquetiers, for lacke of better figurs to expresse them.

A



Heere then yee see your 10. Files or bodie of Pickes, are B. E. your fise Files of musquetiers on the right Flanke of your pickes, C. F. the other 5. Files of musquetiers, on the left Flanke, A. D. from C. to A. is the whole number of your Files as well musquetiers as Pickes; from C. to F. the number of your Ranks.

Now if yee would march by diuisions as being forced by the straitnesse of the ground, yee are to command the Bodie to make an *halt*, or *stand*, then yee command the fise Files of musquetiers which are on the right flanke of the Pickes, to march out from the Bodie, till their Bringers vp bee before the File Leaders of the Pickes: And this shall bee your first diuision of musquetiers. Next yee are to command the fise Files of Pickes on the right hand, to march out from the rest, and to follow the musquetiers Fileing euin with them but keeping a distance of 12 foote betwixt the diuisions

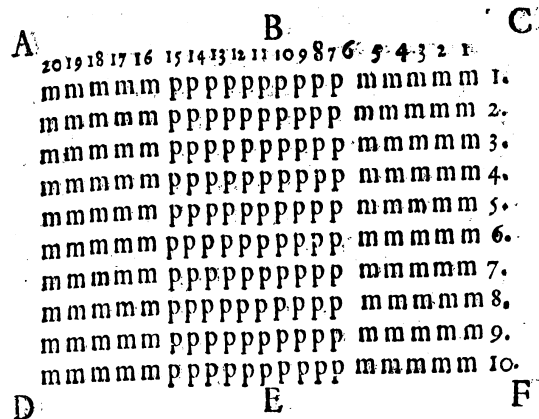
B 4.

Where

(a) *Ælian*  
*Tactic. cap.*  
 35. & cap.  
 36. 37, 38.  
 & sequent.

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A



Heere then yee see your 10. Files or bodie of Pickes, are B. E. your five Files of musquetiers on the right Flanke of your pickes, C. F. the other 5. Files of musquetiers, on the left Flanke, A. D. from C. to A. is the whole number of your Files as well musquetiers as Pickes; from C. to F. the number of your Ranks.

Now if yee would march by diuisions as being forced by the straitnesse of the ground, yee are to command the Bodie to make an *halt*, or *stand*, then yee command the five Files of musquetiers which are on the right flanke of the Pickes, to march out from the Bodie, till their Bringers vp bee before the File Leaders of the Pickes: And this shall bee your first diuision of musquetiers. Next yee are to command the five Files of Pickes on the right hand, to march out from the rest, and to follow the musquetiers Fileing euin with them but keeping a distance of 12 foote betwixt the diuisions

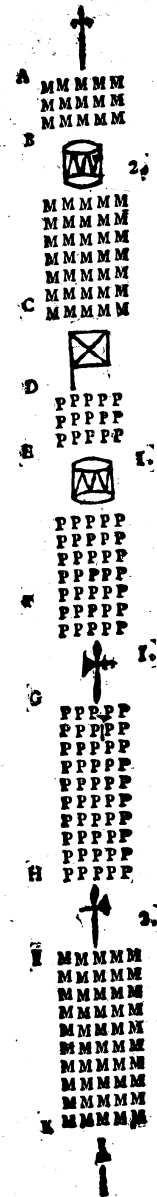
B 4.

Where



where the *Enseigne* must march, and this shall bee your first diuision of Pickes; After them shall follow the rest of the Pickes, which shall bee your second diuision of Pickes, keeping also a distance as the former. Last of all shall follow the *Files* of musquetiers, which was on the left Flanke of the Pickes, and this shall bee your second diuision of musquetiers. The Officers of the Companie must bee thus placed: The *Captaine* marcheth in the Front before the first diuision of musquetiers; The *Enseigne* with the Colours is to march before the first diuision of pickes: The oldest *Sergeant* is to leade the second diuision of pickes. The second *Sergeant* leads the second diuision of musquetiers. The *Leiuutenant* marcheth after the second diuision of musquetiers, & bringeth vp the Reare. The chiefeft *Drumme* beats in the first diuision of Pickes, betwixt the 3. and 4. Ranke; The second *Drumme* beats in the first diuision of musquetiers, betwixt the 3. and 4. Ranke: but some by the contrare, maketh the chiefeft *Drumme* to beate in the first diuision of Musqueties, because (say they) the *Captaine* ought to haue the chiefe *Drum* with him: Some also I haue seene make the *Drum* who marcheth with the Pickes, to beate in the Front beside the *Enseigne*, but those differences are not of great moment; if the Companie haue a third *Drum*, he shall beate in the last diuision of Musquetiers: The figure following expresseth this march clearelie.

A



In this figure then, A. B. C. is the first diuision of Musquetiers, before which the *Captaine* marcheth. In D. the second *Drum* beates betwixt the 3. and 4. Ranke. D. E. E. is the first diuision of Pickes. C. D. is the interuall, or distance betwixt the first diuision of Musquetiers, and the first diuision of Pickes where the *Enseigne* marcheth. In E. the first *Drumme* beateth betwixt the 3. and 4. Ranke of Pickes. G. H. is the second diuision of Pickes. F. G. the distance betwixt the two diuisions of Pickes, which is the oldest *Sergeants* place. I. K. is the last diuision of Musquetiers. H. I. the interuall where the second *Sergeant* marcheth. K. is the place of the *Leinutenant* in the *Reare*.

Now when ye come againe to a faire Campaigne & desireth to march in Battell, to be the more ready to withstand the assaultes of the Enemy. The *Captaine* in the Front, commandeth the first diuision of Musquetiers to *halt*; then commandeth the first diuision of Pickes, which the *Enseigne* leadeth to march vp vpon the left hand of them; thereafter the first *Sergeant*, to bring vp the second diuision of Pickes vpon the left hand of the former; Lastly the second *Sergeant* to march vp with the second diuision of Musquetiers vpon the left hand of all; & so they stand embattelled, as they were at the first.

Obserue when they march in Battell, the *Enseigne* goeth in the *Front* of the Pickes with his *Colours* fleeing, chiefelie if hee bee in sight of the Enemy, or yet beeing out, or coming into his Quarter, or entring vpon Guard, but in fight, he is to retire into the middle Ranke of the pickes: The *Drummes* beates also in the *Front*, but in fight,

fight, they must draw aside to the *angles* on the *Flanks*: The chiefe *Drumme* is to attend the *Captaine*, to deliuer his Commands by touke of *Drum* to the Souldiers when the voyce cannot bee heard. The *Sergeants* marcheth in the *Flanks*, the oldest in the right, the other in the left; hauing care that euerie man march orderlie, and keepe his distance, and that no man goe out of his Ranke. The *Lieutenant* remaines in the *Reare*, bringing vp the Company, and seeing that no man fall backe, but that euerie man doe his duerie.

That which I haue shown of a single Company, may bee vnderstood of a diuision of a Regiment, a *brigada*, or any greater Body: but the diuisions both of Pickes and Musquetiers, must bee framed according to the number of your Bodie, and the Officers are placed according to the *Sergeant major* his Direction.

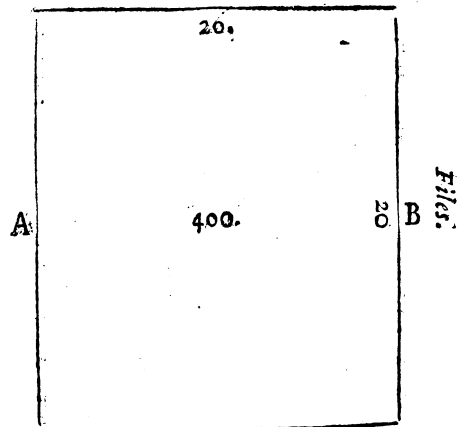
Obserue, that when yee march by diuisions & commeth to a narrow Straite, where onelie one or two can goe in *Front* as ouer a little *Planke* or the straite of a *Ditch*: Yee must make them march away by *Files* leading out one *File* after another, or by *Rankes*, commanding *Rankes* to ranke 1. or 2. or 3. according to the capacite of the Straite: and that either to the right or left hand, as the Straite shall ly vpon the right or left *Flanke* of your diuision: If vpō the right; then the right hand man marcheth forward with his sideman, if the place suffer 2. and the next 2. sidemen of that *Ranke* followeth: And so the rest of the *Rankes*, till all the diuisions bee past

ouer: which being done, he is to command *Ranks*. *Ranke* as yee were: And so they returne all to their first *Station* and *Posture*.

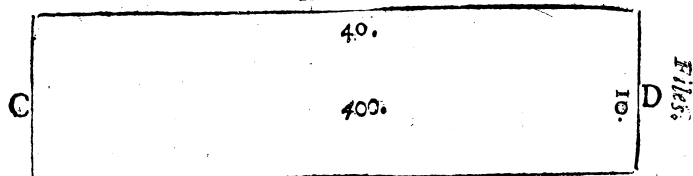
Obferue also, that if yee bee to draw vp your men in a *Battalion Quarre*, or *Square Battell* (I meane of men, not of ground) that is a *square Quadrate*, which is a (b) figure *Equilaterall* and *Rectangular*; whose *Ranks* and *Files* shall be of equall numbers: It is quicklie and exactlie done by extracting the *radix quadrata*, or the *Square roote* of the number of your men, which will bee both the length and deipth of your *Battell*: As for example, ye haue 400. men to put in a *square Battell*, yee seeke out the square-roote of 400. which yee finde to bee 20. And therefore in an instant you draw vp your men 20. in *File*, and 20. in *Ranke*. But if yee bee to make vp any other *square Battell* *Quadrilaterall*, which is (c) *Figura altera parte longior*, called by the French *Battalion Quarreen logue*; ye haue nothing to doe, but to diuide the number of your men by the deipth giuen: and the *quotus* shall bee the length of your *Front*, which I shew before, as in this instance diuide 400. by the deipth of 10. the *quotus* 40. shall giue you 40. in *Ranke*, and siclike of any greater number, the figure following A. B. sheweth the first. C. D. the second.

Obferue

*Ranks.*



*Ranks.*



Obferue by the way, that with a contrarie operation, ye may at the first sight, find the number of a *Battalion*, passing by it, and counting the length & the deipth thereof, & multiplying the one by the other as in the former instance, multiplie 40. in *Ranke*, by 10 in *File*, ye shall find the whole number to be 400.

I will not here speake of the other *Battels*, which are not square, as of *Round*, *Demilunar*, *concave* or *convexe*, *Rombus* or *Diamond*, *Triangle* or *Vedge*, which is halfe a *Diamond*, and such like others; because they are not fitte for march, neither are they

C 3.

now

now much used in Battell or fight, as also they are discribed (d) by *Ælian*, where they may bee found by any, who are curious to vnderstand them.

(d) *Ælian*  
Tact. cap.  
46. 47.

But before I goe further, I must advertise of one thing, that the Souldiers bee acquainted with the severall beates of the *Drumme*, and to vnderstand when the *Drumme* beates a *Call*, or *Gathering*; a *March*, a *Troope*, a *Charge*, a *Retreate*, a *Releife*; and according as the *Drumme* beates, swift or slow, so to accommodate thair motion: as to march slowe or fast, to charge with greater or lesse violence, to retire with greater or lesse speede, and so forth,

### Of the severall Postures of the Picke and Musquet.

Tit 5.

**I**N the next place, the Souldiers are to bee taught the use and postures of the Armes, that euerie one of them doeth carie, bee they *Picke* or *Musquet*, and to handle them gracefullie.

The Postures then, which the *Picke*-men should use, either standing or marching, are these following: In the column vpon the right hand, are contained the tearmes of command in our *Scots* Language: on the left the *English*: for I thought good to acquaint you with both, seeing sometimes the wordes are different.

Take

1. Take vp your *Picke*.
2. Shoulder your *Picke*.
3. Slope your *picke*.
4. Levell your *picke*.
5. Order your *picke*.
6. Advanee your *picke*.
7. Traill your *picke*.
8. Cheeke your *picke*.
9. Recouer your *picke* from traill or cheeke by palming.
10. Port your *picke*.
11. Charge your *picke*.
12. Charge to the right hand.
13. Charge to the left.
14. Charge to the Reare by the right or left.
15. Charge at the foote against horse and draw your *Sword*.
16. Lay downe your *picke*.

1. Lift your *picke*.
2. Shoulder your *picke*.
3. Slant-carie your *picke*.
4. Plate-carie your *picke*.
5. Ouer end, or set down your *picke*.
6. Mount your *picke*.
7. Traill your *picke*.
8. By the point hold your *picke*.
9. Recouer your *picke* by palming.
10. Porte your *picke*.
11. Present your *picke* forward.
12. To the right hand, or right about present your *picke*.
13. To the left hand, or left about present your *picke*.
14. To the Reare, or to the left round about present your *picke*.
15. Foote your *picke*, and draw your *Sword*.
16. Lay downe your *picke*.

Obserue that those three Postures, *Take vp your Picke*, *Order your Picke*, *Lay downe your Picke*, are to bee done onelie standing: The rest standing or marching: but yee must remarke that when your Souldiers charge, standing to make them fall backe with the right Legge, and marching to set forward the left: Also they must know to charge to the right, to the left, to the Reare, from beeing aduanced, ordered or shouldered, all alike readie, and with alike promptitude: For howsoeuer the Enemie appeare, they must bee readie to charge from euerie Posture they stand in.

The Charging to the Reare by the left, is the most

C 4.

ease.

ease and most commodious motion: For the charging by the *right* (although it bee much used by the *French*, whē they commād, *La charge* be a *demy-tour a droit*) is verie troublesome and dangerous, & is discharged by the *Law-Countrie* Discipline, for they beeing at *close order*, (which is the distance, wherein they *Charge*, or receiue a *Charge*) and turning to the *right hand*, their *Swordes* doe chap and are entangled vpon their *Side-men*, so that they annoy their *Side-men*, and themselves are hindered to turne, and therefore breedes a great embarras and confusion in the *Battell*.

This Posture, *Aduance* or *Mount your Picke*, (which the *French* calleth, *Pique en haut*, the *Greekes* *αὐτὴν τὴν ἀριστεράν*) is to bee used in a *Troope*, and in exercising their motions.

In a march they must alwayes haue their *Pickes Shouldered*, either *Leuell* or *Sloppe*, as the word shalbe giuen: When they come through a gate or porte, they must *porte their pickes*, that is, carie them as as they were halfe charged: Vpon an *halt* or *stand*, they must *order their Pickes*, vnlesse there bee command to the contraire.

When the whole *Battell* chargeth one way, the first 5. *Rankes* must onelic charge, the way commanded, and the other 5. (if they bee 10. deipth) must onlie port their pickes, & carie them so ouer the heads of the *Leaders*, that they no wayes empesh them, either in charging or retiring: When they list their *Pickes* from their shoulders to charge, let them take heed to list them in a right Line and paralell with their owne *File*: for otherwise by inclining of the to either hand, they shall trouble their next *Files*.

When

When *Battelles* commeth to push of picke, good Commanders sayeth, that your picke-men must not push by aduancing and retiring their Arme as commonlie is done, but onelic goe joyntlie on together in a Rout without moueing their Armes.

The charge at the foote against horse, is not now used in the *Low-Countries*, but they charge ouer hand aloft: because (say they) they haue the picke more at command to turne where they will.

The Postures of the *Musquetier* are those following, our *Scots* in the right-hand columme, the *English* in the left.

- |  |  |
|--|--|
| 1. Take up your Musquet, and your Rest.                  | 1. Take up your Musquet, and your staffe.                      |
| 2. Recouer your Musquet, & joyne your rest to your Musq. | 2. Recouer your Musquet, and joyne your staffe to your Musq.   |
| 3. Draw out your match.                                  | 3. Take out your lunt.   |
| 4. Blow your match.                                      | 4. Blow your Lunt.   |
| 5. Cocke your match.                                     | 5. Cocke your lunt.  |
| 6. Try your match.                                       | 6. Try your lunt.  |
| 7. Guarde your pan.                                      | 7. Guarde your pan.  |
| 8. Presēt by blowing your match and opening your pan.    | 8. Present or lay on by blowing your lunt, & opening your pan. |
| 9. Giue fire.  | 9. Giue fire.  |
| 10. Dismount your Musquet, & carie it with your rest.    | 10. Take downe your Musquet, and carie it with your staffe.    |
| 11. Vncocke your match.                                  | 11. Vncocke your lunt.   |
| 12. Returne your match.                                  | 12. Put your lunt betwene your fingers.                        |
| 13. Blow your pan.                                       | 13. Blow your pan.   |
| 14. Prime your pan.                                      | 14. Morse your pan.  |
| 15. Shooote your pan.                                    | 15. Shooote your pan.  |

D

Cast

- |  |  |
|--|--|
| 16. Caſt off your looſe powder.  | 16. Caſt off your looſe powder.  |
| 17 Blow your pan.  | 17 Blow your pan lidde.  |
| 18. Caſt about your Muſquet and<br>traill your reſt.                         | 18. Caſt about your Muſquet, and<br>traill your ſtaffe.  |
| 19. Charge your Muſquet.   | 19. Charge your Muſquet.   |
| 20. Draw forth your ſcourer.   | 20. Draw out your Ram ſticke.  |
| 21. Shorten your ſcourer.  | 21. Shorten your Ram ſticke.   |
| 22. Charge with bullet and ram<br>downe your powder & bullet.                | 22 Put in your Bullet, and ram<br>downe your powder & Bullet.  |
| 23 Draw forth your ſcourer.  | 23. Draw out your Ram ſticke.  |
| 24 Shorten your ſcourer.   | 24. Shorten your Ram ſticke.   |
| 25. Returme your ſcourer.  | 25. Put up your Ram ſticke.  |
| 26. Bring about your Muſ-<br>quet, and paſſe it, and re-<br>couer your reſt. | 26. Fetch your Muſquet forward<br>with the left hand, and hold<br>it up in the right, and recouer<br>the ſtaffe. |
| 27. Shoulder your Muſquet, and<br>carie your reſt with it.                   | 27. Shoulder your Muſquet, and<br>carie your ſtaffe with it.   |
| 28. March, and carie your reſt in<br>your right hand.                        | 28. March, and carie your ſtaffe<br>in your right hand.  |
| 29. Slip your Muſquet, and vn-<br>ſhoulder your Muſquet.                     | 29. Sink your Muſquet, and vn-<br>ſhoulder your Muſquet.   |
| 30. Reſt your Muſquet.   | 30. Lay your Muſq. on your ſtaffe.   |
| 31. Stād to your Sētinel Poſture.  | 31. Stād to your Sētinel poſture.  |
| 32. To your ſaluting Poſture.  | 32. Hold your Muſquet in your<br>ſtaffe with the left hand,<br>onlie in ballance.                                |
| 33. Lay downe your Muſquet.  | 33. Lay downe your Muſquet.  |

Obſerue that all this multitude of Poſtures in ſer-  
uice, are reduced to three, *Make readie. preſent, and*  
*giue fire.*

The Muſquetier vpon a March is alwayes to haue  
his

his Muſquet ſhouldered, and the Reſt in his right  
hand, his left vpon the Butte-end or head of the  
Muſquet: Although I haue ſcene many Souldiers  
and chieſelie the lazie *Dutcheſ*, to carie their Muſ-  
quet with their hand vpon the Barrell, and the  
mouth before them, which is an vnſeemlic Po-  
ſture, and verie vnreadie for ſeruice.

Vpon one halt or ſtand the Muſquetier is alwayes  
to reſt his Muſquet, velleſſe hee haue command to  
the contrarie.

The muſquetiers are to carie the mouth of their  
Muſquet high, as well when they are ſhouldered, as  
when they *prime* or *garde their pan*, or come vp to  
*giue fire*: And when they *blow their Match*, they are  
to bring their Muſquet to their mouth, and not to  
ſtoope to it.

A Muſquetier in making *readie*, and in *falling*  
*away* through an diuiſion, or by *counter-*  
*march*, muſt take good heede to carie his Muſquet  
in a euen ſtraight line with his File, for if he carie  
it croſſe, hee will diſturbe his neighbour Files.

When they *giue fire* againſt the Enemy, being  
in open Fielde, they muſt aime no higher, than the  
Girdle of a man: But within a *Trench* or *Parapet*,  
where perchance nothing ſhall bee diſcouered, but  
the heade of the Enemy, they muſt aime at that  
part which appeareth.

How thoſe Poſtures, as well of the Picke as Muſ-  
quet, are to bee performed, may bee ſome-what  
vnderſtood by the figures which are ſet downe in  
his Excellence *Grane Maurice*, his Booke of poſ-  
tures, but they are neuer to bee learned without  
action and practiſe.

## Of Motions, and first of Facing.

Tit. 6.

**S**ouldiers then beeing Armed, and drawn vp in an orderlie Bodie, and knowing their distances, marches & Postures: The chiefe thing thereafter that they are to learne, is their *Motions*, which are the life of an Armie, for as the Soule is to the bodie, so is *Motions* to a Battall: and it is assured that a few number of men well disciplined, and beeing perfect in their Militarie *Motions*, are able to rencounter and ouerthrow great multitudes without practise of Armes *supra* *cap. 3.* *τακτικῆς δ' (sayeth Ælian) ἐμπειρίας διδάμναι: συντεταγμέναις δὲ τὰς ἀταξίας ὁ πῶς ὀλίγων συντεταγμένων, Wee finde often great Forces to bee by their disorder overcome by a few well ordered and exercised, and therefore; the chiefe thing that Souldiers are to vnderstand, is their Militarie *Motions*, for the Science of their *Motions*, is the definition of the Arte Militarie: These then, I shall sette downe in some fewe Titles with as great varietie and perspicuitie as I can, touching onelie the auncient exercise in so farre as it is a ground, or doeth agree with our moderne Discipline.*

The *Motions* of *Troupes* are two folde: of the whole, or of a parte: of the whole, either in keeping ground, or changing ground: Keeping ground when euerie person moueth in his proper place, as in *Facing*: Changing ground, when the Battallion changeth the ground it stood in, as in *counters*.

## And first of Facing.

*ter. march* and *wheeling*: The *Motion* of a parte, is when a part of the Battell moueth, and a parte standeth still, as in *doublings*, *closings*, *openings*, for in those *Motions*; some Rankes or Files standeth, & the rest moueth: I will then begin with *Facing*.

*Facing* is: a *Motion* transferring the Souldiers face to the Flanke or the Reare of the Battell: And therefore is of two sortes, the one, when the Souldier maketh a Quarter turne to the *right* or the *left hand*, the other when hee maketh an halfe turne: The first *Motion* the Greekes called *πρὸς*, which is defined by (b) *Ælian*, ἡ κίνησις ἢ ἐν δεξιῇ ἢ ἐν ἀριστερᾷ, *τὴν ὁπλῆν ἢ ἐπ' αὐτοῦ*, a *Motion of the Souldier, turning his face to the Picke or the Target*, that is to the *right*, or the *left hand*, For the *Grecians* (as I told you before) caried a Picke in their right hand, and a Target in the left; but I wonder why *Ælian* calleth it a *Motion* of the Armed Souldier onelie *τὴν ὁπλῆν* seeing the *πρὸς* did also use this *Motion*.

The action of this *Motion* is thus performed, the Souldier standeth firme with his left Legge, and turning onelie vpon his heele, draweth backe the right Legge, if hee face to the *right hand*, or bringeth forward the right Legge if hee face to the *left hand* & this is to bee done in a *stand*, but in a *March*, facing to the right hand, they must bring forward their left Legge.

The use of this *Motion*, at a *stand* is to be ready at an instant to receiue the charge of the Enemie; if they assaile either of your Flankes: But if ye face and *march*, yee may thereby preuent the Enemie from falling vpon your wings (c) as *Leo* sheweth) by bringing your Battell to some Riuer or other

Di 3

Strength; 79

(b) *Ælian* Tact. c. 24.

How to performe the Motion.

The use of the Motion.

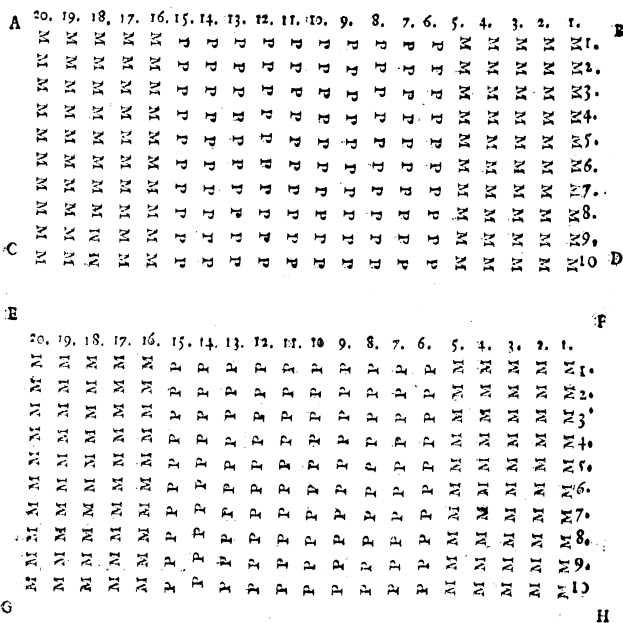
(c) *Leo* Tact. c. 7. § 9

Strength, and also to eschew some dangerous ground: as *Alexander* did at *Arbela*, who perceiuing that *Darius* had strowed the ground betweene the two Battels with *ὑπὸ καλὸν* or *Calthropes*, faced his right winge to the right hand: and marched about: (d) See *Polienus*.

(d) *Polienus*  
*Stratag. lib.*  
4. in *Al-*  
*exandro* §  
17.

But if the Enemie charge both your Flankes at onetime, yee must face the halfe of your Battell to the right hand, the other halfe to the left, that is: the halfe of your Files which are vpon the right Flanke, faces to the right hand, the other halfe which are vpon the left Flanke, faces to the left hand: and this is the *ὑπὸ καλὸν* described by (e) *Ælian*, and not as *Captaine (f) Bingame*, sayeth. The formes of *ὑπὸ καλὸν* yee shall see in the figures following.

(e) *Ælian*  
*Tact. c.* 38.  
(f) In his  
*Notes vpon*  
*Æl. Tact.*  
*cap.* 25.



## And first of Facing:



The figure A. B. C. D. is a facing of the whole Battell to the right: where that which was before the right Flanke. B. D. is now become the Front: the Reare before C. D. is now become the right Flanke: the Front before A. B. is now become the left Flanke: the left Flanke before A. C. is now become the Reare: The figure E. F. G. H. is a facing of the Battell to the left, where that which was the left Flanke before E. G. is now become the Front: The right Flanke F. H. the Reare: The Front E. F. the right Flanke: The Reare G. H. the left Flanke. The figure I. K. L. M. N. O. is a facing of the Battell to the right and left by diuision, where the one halfe of the Battell K. L. N. O. consisting of 5. Files of Pickes. and 5. of Musquetiers, faces to the right hand, and maketh the Front. L. O. which before was the right Flanke, & the other halfe, I. K. M. N. consisting of alike Files, faces to the left, and maketh the Front. I. M. which before was the left Flanke, so that: thereby it is *ὑπὸ καλὸν*, or a double fronted Battell.

D 4

The:





T. 20. 19. 18. 17. 16. 15. 14. 13. 12. 11. 10. 9. 8. 7. 6. 5. 4. 3. 2. 1.  
 M M M M M P P P P P P P P P P M M M M 1.  
 M M M M M P P P P P P P P P P M M M M 2.  
 M M M M M P P P P P P P P P P M M M M 3.  
 M M M M M P P P P P P P P P P M M M M 4.  
 M M M M M P P P P P P P P P P M M M M 5.  
 W W W W W A A A A A A A A A A W W W W 6.  
 W W W W W A A A A A A A A A A W W W W 7.  
 W W W W W A A A A A A A A A A W W W W 8.  
 W W W W W A A A A A A A A A A W W W W 9.  
 W W W W W A A A A A A A A A A W W W W 10.

X.

Y.

The figure P. Q. R. S. is a *facing* of the whole Battell to the *Reare* by the *right* or the *left*, where R. S. which before was the *Reare*, is now become the *Front*: and the *Front* before P. Q. now the *Reare*: the right *Flanke* Q. S. now the *left*: The left P. R. now the *right*. The figure T. V. X. Y. is a *facing* onelie of the halfe *Files*, or last five *Ranks* to the *Reare*, so that yee see the one halfe of your Battell, both *Pikes* and *Musquetiers* *facing* towards the *Front*, T. V. and the other halfe *facing* towards the *Reare*, X. Y. which is now also become a *Front*, so that it is likewise *fronted*, or a double *Fronted* Battell.

The wordes of Command are those,

Face to the right about,  
 Face to the left about,  
 Halfe *Files* face to the right  
 or left about.

As yee were.

Some say onelie, To the right about, to the left about, &c.

Count

Count (m) Mansfield his wordes of Command, (m) In his  
 are: By the right hand to the *Reare*: By the left hand direct, of  
 to the *Reare*: which are all one with the former.

But our Scots words,

Right round about,

Left round about,

Sixt *Ranke* right or left

round about.

To your first order.

They are verie vnproper, and I wishe our commanders could agree to change them, for to turne round about, is to bring your face to the part where yee stood in before yee turned, and so yee shall face not to the *Reare* but to the *Front* againe.

If the *Enemie* charge you on all sides, yee must face to the *Front*, *Reare*, and *Flanks*: the Grecians called this Battell *καταξυ τριπλην*. Alexander at *Arbela* was forced to draw vp his Battell after this fashion as (n) *Frontinus* doeth report: Alexander ad *Arbela* cum hostium multitudinem vereretur, virtuti autem suorum fideret, aciem in omnem partem spectantem ordinavit, ut circumventi undique pugnare possent. It is also described by (o) *Ælian* to whom I referre the Reader, for I cannot insist particularlie in all things: but you shall marke that when such a charge is expected, and that yee are forced to frame such a Battell, yee must enlarge your deipth about 10.

(n) *Frontinus* Strategem. lib. 2. cap. 3.

(o) *Ælian* Tact. c. 36.

But before I goe further, I must aduertise you, of one thing which will serue in all Motions: When yee would reduce your Souldiers to their first Station, yee are to command them, As yee were, or To your first order: which the (p) *Greekes* called *κατὰ τὸν αὐτὸν τόπον* (q) *Leo* The French calleth it *Remettez vous*, and so yee are to bring them backe to the place

(p) *Ælian* Tact. cap. 25. & 27.

(q) *Leo* Tact. cap. 7. § 79.

place from which they went by the contrarie way,  
As for example, if they turned to the *right hand*:  
they must returne backe againe to the *left hand*: If  
they turned to the *left*, they must returne to the  
*right*: If they turned to the *right about*, they must  
returne to the *left about*, and so forth. *Alian* (r)  
describeth this *Motion* to be *to the right about*, to restore the  
Souldiers fight to the former aspect hee had in the be-  
ginning: That is, before hee turned.

(r) *Alian*  
*Takt. cap. 25*

### Of Doublings.

Takt. 7.

**D**oubling is, a Motion of a part of the Battell (for  
the part doubled standeth, and the part dou-  
bling onelic moueth) Whereby either the length or  
the depth is augmented: and therefore Doubling is of  
two sorts, of Rankes or of Files.

Doubling  
of Rankes.

*Doubling* of Rankes is a Motion whereby the  
length of the Battell is enlarged, and the depth di-  
minished, by inserting the one halfe of the Rankes  
in the other. (a) *Leo* calleth this Motion *the phalaix*  
in the other. (b) *Alian* calleth it *the phalaix* in the other.  
The Motion is performed sundrie wayes.

(a) *Leo*

*Takt. cap.*

7. § 16.

69. § 109.

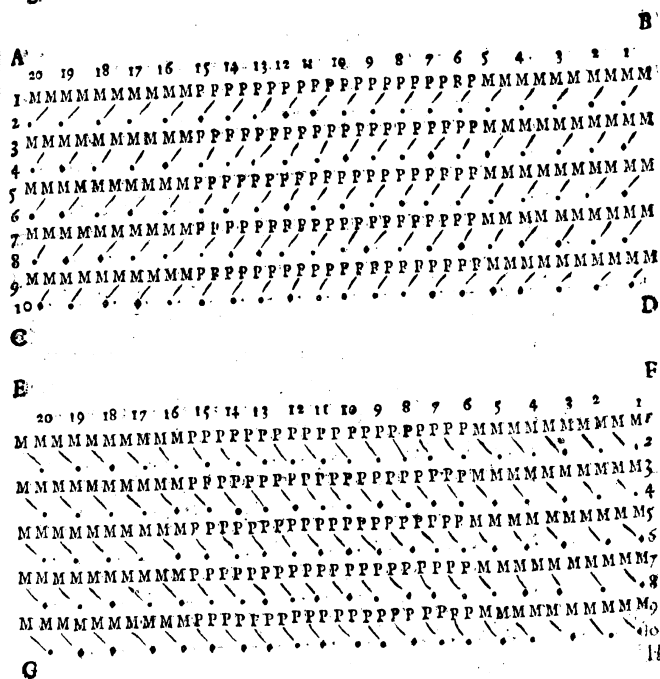
(b) *Alian*

*Takt. c. 28.*

**F**irst when the evin Rankes are inserted into the  
oddes, as the second in the first, the fourth in the  
third, the sixth in the fifth, and so forth, and this  
is to be done either to the *right* or *left hand*.

If the Command be to double to the *right hand*,  
then euerie man that doubles steppes forward vp-  
on the *right hand* of his Leader: If the command  
bee

bee to the *left*, hee that doubles steppes forward  
on the *left hand*, of his Leader, so that of ten rankes  
they become five, and consequentlie five deepe,  
and if they were before 20. in Rankes, they become  
40. and therefore 40. Files, as in the figures follow-  
ing is showne.



The figure A. B. C. D. is a doubling of Rankes  
to the *right hand*, where yee see the evin Rankes  
2. 4. 6. 8. 10. steppe forwards vpon the *right hand*  
of their Leaders, the odde Rankes 1. 3. 5. 7. 9.

E 3.

The

The evin Rankes, are marked with these pointes . . . . . by which you may consider the place they stood in before the *doubling*, and these marks *1111* sheweth the way they goe vp on the *right hand* of their *Leaders*; and beeing doubled, yee see the second Ranke is inserted in the first, the 4. in the 3. the 6. in the 5, the 8. in the 7, the 10, in the 9. The figure E. F. G. H. is a *doubling to the left hand*, where yee see the evin Rankes are inserted as the former, but onelie that they steppe forward on the *left hand* of their *Leaders* as these marks *1111* sheweth. In the first figure I haue put the number of the Ranks vpon the left *Flanke* A. C: In the second on the right *Flanke* F. H. because the *Motion* is most perceptible vpon those sides.

How the Motion is done. The *Motion* is to be performed by the Souldiers in three steppes, beginning with the left legge and stepping forward with the right vpon the *right* or *left hand* of their *Leaders*, and then bringing vp the left legge, place themselues in evin Ranke with the rest: but in *reducement*, they must turne to the *contrarie hand*, that is, if they doubled to the *right*, they must turne againe to the *left*: and if they doubled to the *left*, they must turne to the *right*, because it is the shortest way to to their owne place.

The wordes of Command are,

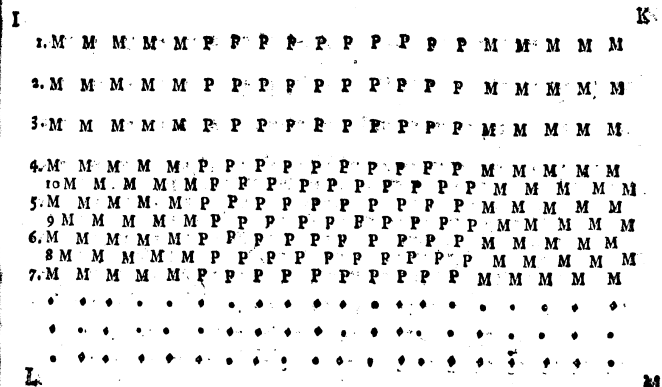
Ranks to the right hand double, }  
Ranks to the left hand double, } Ranks as yee were.

Our Scots wordes of Command,

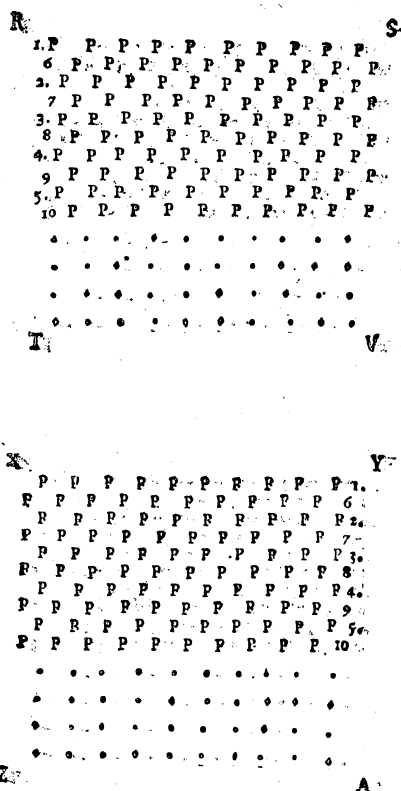
Double your Rankes to the right hand, }  
Double your Rankes to the left hand. } Ranks to your first order.

Secondlie Rankes are doubled by the *Bringers-vp*, when the last Ranke aduanceth through the distances betwene the Files, and after it the next last Ranke

Ranke, and so the rest successiuelie till the *Bringers-vp* bee in Ranke with the *Leaders*. The 9 Ranke with the 2. the 8 with the 3. the 7 with the 4. The *Bringers-vp* middlemen with the *Leaders* middlemen: so your *Front* is doubled with your best men: and this is done as the former, either to the *right* or *left hand*: If the Command bee to the *right*, the *Bringers-vp* with those that follow, goe vp, vpon the *right hand* of the *Leaders*: if to the *left*, they goe vp vpon their *left hand*, as in these figures following appeareth.







Those two figures are battells of Pickes onelie, which I haue set downe for breafe perspicuities cause: for yee may imagine the like *Motions* to be done, by Musquetiers on the *Flankes*. The Battell then R. S. T. V. is a doubling of Rankes by *Middle-men* to the *right hand*, where ye see the sixt Ranke

Rank with the 7. 8. 9. & 10. following it, is going vp vpon the *right hand* of the *Leaders*, to the *Front* R. S. and leauing the voyde spaces where they stood towards the *Reare* T. V. so that the deapth which was before from S. to V. is now diminished to the half. X. Y. Z. A. is a doubling by *Middle-men* to the left, where the samine rankes marcheth vp vpon the *left hand* of the *Leaders* to the *Front* X. Y. leauing their voyde spaces toward the *Reare* Z. A. and diminishing the deapth as the former.

The wordes of Command,

*Middle-men* or *halfe Files*, to the *right hand* double your *Front*. } *Halfe Files* as yee were. .  
*Middle-men* or *halfe Files*, to the *left hand* double your *Front*.

Our *Scotes* wordes of Command are,

*Sixt Ranke* to the *right hand*, aduance } *Sixt Ranke* to  
to the *Front*. } your first or der.  
*Sixt Ranke* to the *left hand*, aduance }  
to the *Front*.

Obserue that those doublings are to bee done at open order.

Fourthlie, Rankes are doubled by *Middle-men* or *halfe Files* *entcare*, or by *diuision*: *entcare*, when the *halfe Files* or last fivie Rankes faceth about to the hand, to which they are commanded to double; & marcheth out altogether from the Body, till they bee cleare of it, and then face to the *Front*, and march vp to joyne themselves in *even Front*, with the *File Leaders*: By *diuision*, when those halfe Files doe face the one halfe to the *right hand*, the other to the *left*, and so going out from the Bodie, they march vp vpon both *Flankes*, vntill they come and *Front* with the *File Leaders*, as may bee scene by these figures following.



I haue heard many Commanders slight this *Motion* as vnprofitable: but I doe not approue their opinion, for I hold it the most usefull *Motion* that can bee practised in doubling of Ranks, and more seruiceable than any other doubling whatsoever: because all other doublings must be done at open order & therefore cannot bee used when the enimie commeth to charge, or in time of fight, because that distance is not fit to receiue the charge of the Enimie, but these doublings are done at close order, & therefore may be used in time of fight, and at all other times, without any trouble: Againe, other doublings disturbs the Battell, & maketh a confusion by marching through the Files of the Bodie: And in this doubling, the halfe Files marching out from the Bodie, breedeth no disorder, nor disturbance at all: but on the contrarie bringeth vp fresh aides vpon the *Flanks* against the Enimie, and will affright him no lesse, than if a newe Battaillion wercomming to charge him. Lastlie, it is more conducible for the use of doubling (which yee shall see heereafter) seeing it extendeth more the length of the Battell, and keepeth it more from ouerwinging, than any other doubling: For if the enimie come vpon you with a *περὶ πλάγας*, that is, an ouerwinging Battell, minding to encompassse either of your *Flanks*; by this *Motion* yee may handsomely rencounter him: For if it be your right *Flanke* which hee persues, yee ought to use the doubling *Enteare to the right hand* A. B. C. If it be the left *Flanke*, yee are to use the doubling *Enteare to the left hand* D. E. F. But if hee come vpon you with a *πρὸς ἀντίπαρα*, that is, an ouerfronting

ting Battell, minding to encompassse both your Wings, then yee are to use the doubling to the *(d) Capt. right and left by diuision G. H. I. K.* so that by this *Bmg. in his Motion*, yee are readie to resist all his attemptes *(d) Notes vpon Eliot ac. c. 29. § 3. & 5.* *Captaine Bingham* (whose learning and vnderstanding in the *Airte Militar* is sufficientlie knowne) doth allow of this *Motion*, and commendeth it about the other doublings. The illustrious *(e) Count Mansfield* himselfe (whose Authoritie is sufficient to stoppe the mouthes of all contradiçtors) describeth this doubling, and setteth it downe with the words of Command, as verie usefull: But laying aside Authoritie, the argument is cleare.

*That Motion which in time of fight, without disturbance of the Battell bringeth supplie vnto it, and annoyeth the Enimie, is a steadable Motion.*

*But, doubling of the Front enteare to either hand or by diuision, is such a Motion.*

*Ergo it is a steadable Motion.*

The *major* is manifest, the *minor* I haue already prouene: so that this *Motion* remaineth good and steadable in seruice, although those who vnderstand it not, disdain it, and neglect the practise of it: I haue insisted longer in this point, than I would haue done, because I cannot digest the haucie ignorance of manie Commanders, who slighteth and contemneth all thinges which surpasseth the reach of their vnderstanding.

There is yet other doublings of Ranks, as namely by *Counter-march*, which *(f) Leo* describeth in those words *μεταβαλλονται ἅπαντες* &c. And I haue seene it oft *(f) Leo Tac. c. 7. §. 84.* practised by the *English*. It is thus done: The Cap-



taine commandeth the Files to counter-march to the right or left (what Counter-march is, yee shall see heereafter) then the File-Leaders beginneth to turne, and the rest following them, they march downe through the Files, till the Leaders bee in evin ranke with the Bringers-up: then presentlie hee commandeth them to halt or stand, so that the last five Ranke are faced to the Front, and the first five to the Reare: The Captaine then if he will haue the Battell fronting as it was, hee commandeth the first five Rankes to face about to him: which done, they shall all haue their faces directed one way towards the Front: But if hee please to turne the aspect of his whole Battell towards the Reare hee commandeth the Reare diuision, or last five ranks, to face about, and so the whole Battell shall bee faced about to the Reare: This is of singulare use against an enemy, comming to charge your Reare, and to encompasse you: For by this Motion in an instant, yee both double the length of your Battell, and bring your best men to receiue the charge of the enemy: And this is the use which the Emperour (g) Leo maketh of this Motion, who was the breauest Commander of his tyme, and who for his exquisite knowledge in the Arte Militarie was brought to weare the Imperiall Crowne.

There is another doubling of Rankes, when the evin Rankes are drawne out fullie from the Bodie towards either of the Flankes, or else when they diuide themselues, and march out towards both Flankes together, Count (h) Mansfield calles this to double the Front by the Flankes: The Emperour (i) Leo speaketh also of it, and sayeth, It is to be done by this word of command *ἐλάττω*.

(g) Leo.  
Tact. § c. 7.  
(b) Count  
Mansfield  
in his direct.  
of warre.  
(i) Leo Tac.  
c. 7. § 69.

Rankes also are doubled by wheeling the Flanks, into the Bodie, as yee shall see heere after.

The generall use of Doubling of Rankes (k) E-  
lian setteth downe clearelie, *Διπλασιζονται ὁ μὲν τῶν* of Rankes.  
*φάλαγγες ὅταν ἦτε ὑπὲρ κερῶν τοποθετημέναι βέλονται αὐταὶ ἀνερπαραδίωκται* (k) *Alian*  
*de strat. tact.* The length of the Battell is doubled, when  
either they purpose to ouerwing the Enemy or else expectes to bee ouerwinged by him. Tact. c. 28.

This did (l) Cleandridas the Lacedemonian Generall against the Leucans, for he surpassing them in multitude, first drew his Battell to a great deapth, that he might allure them to charge, which the Leucans seeing drew out their Armie in length & came foreward to encompasse his winges: but Cleandridas doubling the length of his Battell, ouerfronted them and ouerthrew them. (l) Polienus  
Strat lib. 2.  
in Cleandrida § 4.

The Emperour (m) Leo giueth another reason of Doubling the length of the Battell *ἡ μὲν ὁ ποταμὸς* (m) Leo.  
(saith he) *ὅτι κομῶν* &c. The length of the Battell is doubled for ornament, and to make a faire show, or to make it equall with another Battell: or else to affright the Enemy, making him thinke your multitude to be greater then it is: as did (n) Antigonus against Enmenes. (n) Polienus  
Strat lib. 2.  
in Antigonu § 19.

But the Emperour (o) Leo giues an good aduertisement and caution for doubling the length of the Battell, whereof all Commanders should take heede: *Επειδὴ δὲ* (sayth hee) *ἡ πρὸς τὴν παρατάξιν ὅταν μὲν συσπλῶνται* &c. When the deapth of the Battell is drawn up in length, it must not be so lengthned that it be overweakened in the deapth, for it will fall out that the Enemies shall easilie breake it asunder and make a passage through it, and will not onelie encompasse it before

(o) Leo  
Tact c. 14.  
§ 108.

but passing through the midst will bee found behind, and there doe great harme: Wherefore a Generall should not onely seeke to prevent this, but to doe the like to the Enemy.

Ælian speaketh of a doubling of Rankes in place, which is nothing but an opening of Files to a greater distance.

Of doubling of Files.

**D**oubling of Files, is a Motion whereby the deapth of the Battell is increased, and the length diminished by inserting the one halfe of the Files in the other:

(p) Leo  
Tact. c. 7.  
§ 16 & c.  
14 § 109.

(p) Leo calleth this Motion *τὴν εὐλαγίαν ἐν βᾶσι* & *συσταίναν*: and *τὴν παρατάξιν εἰς πᾶσι πυκνοῦσαν*. (q) Ælian calleth it, *συστάσασιν το βᾶσι*: And is performed sundrie wayes.

(q) Ælian  
Tact. c. 22.

**F**irst, when the one halfe of the Files fall in into the other, the evin Files into the odde, when the command of Doubling is to the right hand: the odde Files into the evin, when the command is to the left, so that of 10. deepe they are made 20. and therefore 20. Rankes and if they were 10. in Ranke, they become but 5. and therefore 5. Files. The first is this way done, The right hand File which is the first, stands still, the second File next it, steppes about and moues in into it: euerie one going behind his right hand Sydemian, so doth the 4. into the 3. the 6. into the 5. the 8. into the 7. the 10. into the 9. & so forth if there be moe Files in your Battell. Doubling to the left is when the left hand File together with the rest of the evin Files standes still, and the odde Files turnes about to the left and steppes in behind their Sydemian on the left hand, so that the first File is inserted in the second, the 3. in the 4. the 5. in the 6. and so forth of the rest of the Files of your Battell, as the figures following sheweth.

P



The figure L, M, N O. sheweth you a doubling of Files to the right hand, where yee see the evin Files 2. 4. 6. 8. 10. inserted in the odde Files 1. 3. 5. 7. 9. P. Q. R. S. sheweth a doubling to the left hand, where yee see the odde Files 1. 3. 5. 7. 9. moueth into the evin. 2. 4. 6. 8. 10. These points letteth you see the place where the Files stood before the Doubling. Those marks / \ sheweth the way of the Motion, which / \ in the first figure is towards the right hand M. O. and in the other towards the left hand P. R.

For the right action of this Motion, your Soldiers must obserue, that if the command bee to double to the right hand, then they who double first turnes about, and setteth forward the right Legge,

How to  
doe the  
Motion.

G 2

Legge,

Legge, next steppeth forward with the left legge behind their *Sidemen on the right hand*, and then brings on the right Legge, and place their Bodie evin in a right line behind their *Sideman now their Leader*, and in *reducement* to come againe to their former *Posture*, they must first moue their left Legge and in three steppes recouer their first Station: If the command bee to double *to the left hand*, they who double first turneth about, and setteth forward their left Legge, then steppeth forward with the right, behind their *Sydemens on the left hand*, and then bringeth on their left Legge, and placeth their Bodie in an evin line with their *Side men*. In *reducement* they first moue their right Legge, and in three steppes retournes to the *Posture* they were in.

The wordes of Command.

Files to the right hand double } Files as ye were.  
Files to the left hand double }

Our wordes of Command.

Double your Stringes to the right hand, Stringes to your  
Double your Stringes to the left hand, first order.

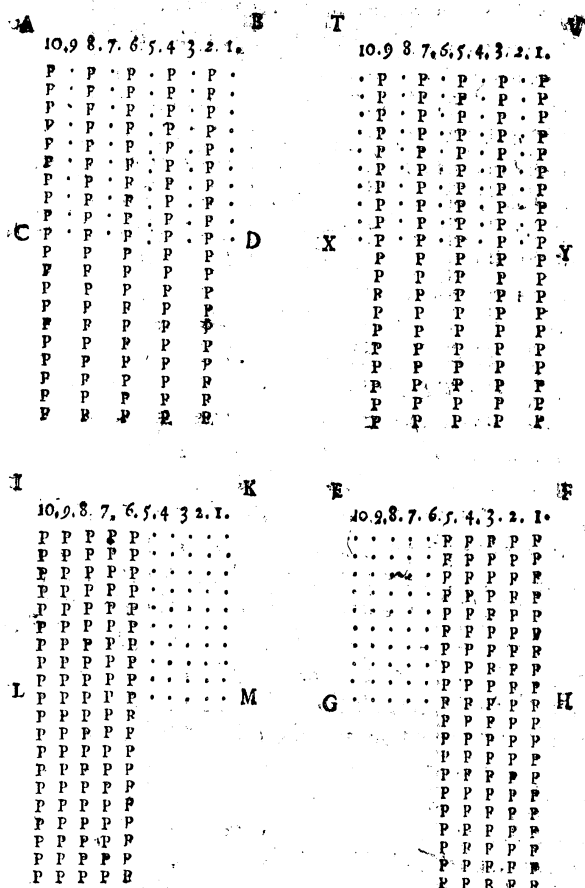
Obserue that this Doubling must bee done at open order.

I haue seene some Commanders in exercesing, command a Doubling of Files *to the right and left by diuision*: which was done by inserting the evin Files of the right *Flanke* in the odde, and the odde Files of the left *Flanke*, in the evin: But in this *Motion* the Files must consist of a number diuisible in evin numbers, as 8, 12, 16. And this I thinke more curious then profitable

Obserue that Doubling of Ranks & Files, are one anothers *reducements*, but to the *contrarie hand*, as

if there bee a doubling of Ranks *to the right hand*, ye may command Files double *to the left*, and so the Ranks are reduced to their first *Posture*. If the Ranks bee doubled *to the left*, then command Files to double *to the right*, and so yee bring the Ranks as they were. Again, if there bee a doubling of Files *to the right*, command Ranks to double *to the left*, and so yee restore Files to their first Station: If the Files bee doubled *to the left*, command Ranks to double *to the right*, and so the Files are reduced.

SEcondlie Files are doubled by *Countermarch* (sayth (r) *Alian*) when the evin Files countermarch, to the *Reare*, and place themselves behind the *bringers up* of the odde files: And this is if the Command bee to the *right hand*: But if it bee to the *left*, the odde Files Countermarcheth and placeth themselves in the *Reare* of the evin. Or it is done, when the files diuideth themselves (sayeth s. *Alian*) that it to say, The files vpon the one *Flanke* separates themselves from the files on the other *Flanke* (for yee must conceiue the Bodie to be diuided into two *Flankes*) and countermarcheth to the *Reare*, & there placeth themselves behind the standing files of the other *Flanke*, according as the word is giuen to the *right* or *left hand*: for if the command bee to the *right hand*, the files of the left *Flanke* countermarches to the *Reare*, and placeth themselves behind the files of the right *Flanke*: if the Command bee to the left, the files of the right *Flanke* doth the like behinde the files of the left *Flanke*, as in the figures following.



This figure T. V. X. Y. is a doubling by counter-march to the right hand. X. Y. was the Reare of the Battell before the Doubling, but after the Doubling,

bling, yee see the 2. 4. 6. 8. and 10. Files are counter-marched to the Reare, and placed behind the odde Files, so that the deapth which stretched before from V. to Y. is now augmented to the double. A. B. C. D. is a Doubling by Counter-march to the left hand, where the Reare before the Doubling was C. D. and the deapth of the Battell which was onelie from B. to D. is now extended so far as the odde Files are counter-marched and placed behind the evin Files. The figure E. F. G. H. is the second manner of Doubling, by Counter-march, where the halfe of the Files that was vpon the left Flanke E. G. to wit, the 10. 9. 8. 7. and 6. hath diuided themselves from the files of the right Flanke, and are Counter-marched to the Reare and enlarged the deapth F. H. to the Double. In I. K. L. M. the first fiue files of the right Flanke K. M. are diuided from the rest, and counter-marched to the Reare of the left Flanke, and hath augmented the deapth I. L. as did the former.

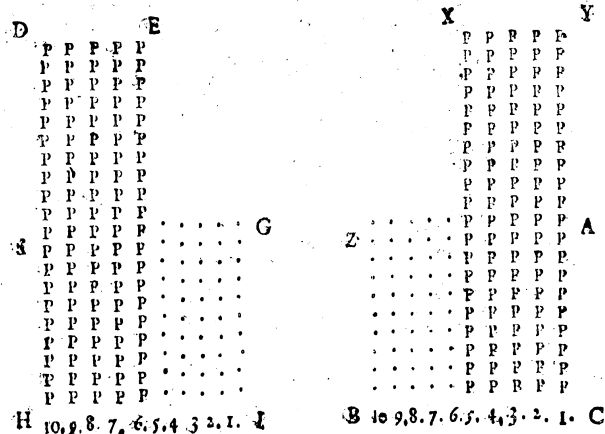
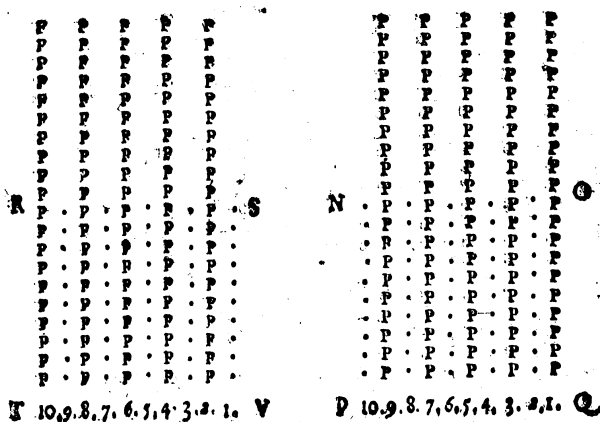
The wordes of Command may bee those,

Double your Files by Counter-march to  
the right hand.  
Double your Files by Counter-march to  
the left hand.  
Diuid your Files and double them by  
Counter-march to the right or left  
hand.

This Motion was oft used amongst the Grecians, but I haue not seene it practised in our moderne exercise.

**T**hirddie, Files are doubled by advancing or leading forth: when the evin Files marcheth out from the Bodie, & placeth themselves in a right line.

line before the Leaders of the odde Files, if the Command bee to the right hand: and the odde files before the evin, if the Command be to the left hand: or else it is done when the one halfe of the files vpon either Flanke marcheth forth together and advanceth before the files of the other Flanke, according as the Command is to the right or left hand if to the right, the files of the left Flanke advanceth before the right Flanke: if to the left, the files of the right Flanke advanceth before the files of the left Flanke, as in the figures following.



The figure N.O.P.Q. sheweth a doubling to the right hand by advancing the evin Files before the odde: N.O. was the front of the Battell before the Doubling: the depth was 10 O. to Q. which now is extended to the double. R. S.T.V. is a Doubling to the left hand, by advancing the odde Files before the evin: R S was the Front before the doubling, and S. V. the depth, which is extended as the former: The other two figures are doublings by advancing of the halfe of the Files: Z. A. B. C. is a doubling of the halfe of the Files to the right, where the files of the left Flanke Z B, the 10, 9, 8, 7, & 6. advanceth together before the files of the right Flanke. Z.A. was the Front or length of the Battell before the Doubling which now is contracted to X. Y. A C was the depth of the Battell, which is now extended to C. A. Y. The other F. G. H. I. is a Doubling of the halfe of the Files,



are joynd with the Files of the right Flanke L. N.

O P Q R sheweth a Doubling of the left flanke by the right: where the Files of the right Flanke P. R. the 1. 2. 3. 4. and 5. are inserted in the Files of the left Flanke O. Q. Of both the Battelles, the length K. L. and O. P. are contracted to the halfe; and so the Battell is brought into a wing, whereof is made the *ὁριζωνιακή*, described by (t) *Aliaz*. These points in all these former figures sheweth the place where the Doubling Files stood.

(t) *Aliaz*.  
Tact. c. 27.

The wordes of Command,

Files double your right Flanke. } Files as ye were.  
Files double your left Flanke.

Some say,

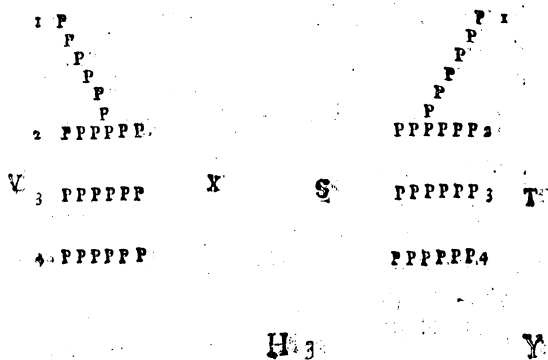
Halfe Ranks double your right or left Flanke.

This Doubling mixeth your Armes, which if yee would eschew, yee may countermarch your Flanke, beginning the Motion with the vttermost File of that Flanke, which doubleth: making it march through the distances betwixt Ranks, till it joyne with the vttermost File of the other Flank; the rest following it successiuelie, so your Pickes shall double your Pickes, and your Musquetiers your Musquetiers: As if yee should suppose the tenth File of the figure K. L. M. N. to double the first, the 9. the 2. the 8. the 3. and so forth. But of this yee shall know more heereafter.

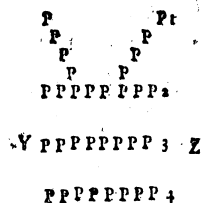
Obserue that yee may proceede in doubling your Files, till yee bring your whole Battell in two Files, or one File.

Or yee may doe this, by making your Ranks File to either hand, or both by division: If ye command

mand Ranks to File to the right hand, the right hand man of euerie Ranke stands still, the next to him falles behind him, the rest of the Ranke follow, vntill the whole Ranke bee in a File: All the Ranks doe the same, falling behind their right hand man, and making one File of the whole Body. If the word bee to the left, the left hand man stands firme, the next to him falles behind him, and the rest follow, and all the Ranke falls behind their left hand man, and so are converted in one File: But in this Motion yee must obserue a Double distance, Yet if it bee in a March, yee may doe it at any Order: Some call this Motion, *Fileing by conversion*: But yee must obserue that in a great Front yee can not well use this Motion. If ye would bring your Bodie in two Files, the one halfe of the Ranks fall into the right hand File, the other into the left hand File, the right and left hand File standing fast, and the rest of the Files inverting to them, for some calleth this Motion *Fileing by inversion*.



## Of Doubling of Files.



The figure S. T. is a *Fileing* of Ranks to the right hand, where yee see the first ranke is casting it selfe in a *File* behind the right hand man. V. X. is a *Fileing* to the left hand, where the first Ranke is going to *File* behind the left hand man, and as the first Ranks in both doeth, so yee must imagine the rest to doe in an instant. Y. Z. is a *Filesing* to the right and left by *division*, where yee see the halfe of the first Ranke falling in behind the right hand man, and the other halfe of it behind the left hand man: which also yee must conceiue the rest of the Ranks to doe.

The wordes of Command,

Ranks *File* to the right hand } *File* Ranks as yee were.  
Ranks *File* to the left hand }

Some say,

Ranks *File* by *conversion* to the right or left hand.

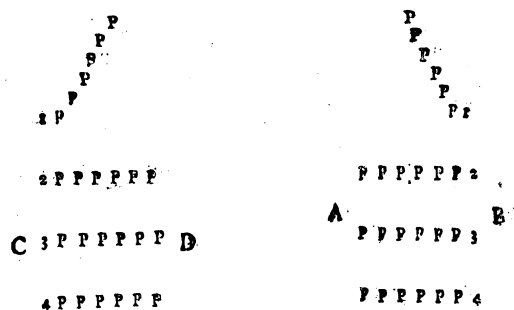
Ranks *File* to the right and left  
by *division*. Or

Ranks *File* by *inversion* to the right, or left. } *Files* as yee were.

There is yet a *Doubling* of Files by *wheeling* the Ranks to the right or left hand. If the word be to the right, the right hand man turnes to the right, and the rest of his Ranke *whee*le together, and come about

## Of Doubling of Files.

about him on the left hand, all the Ranks doeth the like: If the command bee to the left, the left hand man turnes to the left, the rest of his Ranke commeth all about him on the right hand, and so all the other Ranks.



The figure A. B. is a *wheeling* to the right hand: where yee see the first Ranke wheeling about the right hand man, and coming vp vpon his left hand. C. D. is a *wheeling* to the left hand, where the first Ranke is wheeling about the left hand man, and coming vp on his right hand, and so doth all the rest of the Ranks.

The wordes of Command,

Ranks *whee*le to the right hand, } Ranks as ye were.  
Ranks *whee*le to the left hand }

Yee may *whee*le Ranks also to the right or left by *division*.

The use of *Doubling* of Files, is to strengthen the deapth of your Battell, to resist the Enemy, when yee thinke hee mindes to breake through and diuide your forces: It serueth also to let the shot goe through your Files, when ye are *marching* towards

The use of  
Doubling  
of Files.



an Fort, for which the first maner of *Doubling* is proper, & the *Filing* of *Ranks* to the right or left hand: Also to giue a *Vollie* of *Musquetados* vpon either *Flanke*, or both: or to make a *streete* for a *Generall*, or some great *Commander* to goe through, or else to lodge the *Colours*: The *Filing* of *Ranks* to the right or left, or both by *division*, or the *wheeling* of *Ranks* performeth this. It serueth also to make your *Forces* seeme small to allure the *Enemie* to fight as did (u) *Cleandridas* against the *Lencans*: *Strat. lib. 2.* who first drew out his army in a greath deapth, in *Cleandri.* whereby his enemies contemning his apparentlie small number, did charge him, but hee instantlie doubling his *Ranks*, did encompassse them, and ouerthrow them.

But ye must take heed (as the Emperour (x) *Leo* advertiseth in these words *παλιν δε μεν ουτως πυκνωσαι τις παραταξιν εν παχη* &c.) That when yee double the deapth of your *Battell*, yee make not the *Front* of your *Armie* too narrow, and so giue occasion to the *Enemie* to *ouerfront* you, & encompassse you,

which was (y) *Marcus Attilius Regulus*, his error in the *Battell* against the *Carthaginians* for hee fearing the *Forces* of the *Carthaginian Elephants* to breake through his *Armie*, drew his *Battell* to so great a deapth, that it was easlie encompassed by the *Carthaginian horsemen*, led by *Zantippus* the *Lacedemonian*, and by them vtterlie defeate, and himselfe taken prisoner. For as too much weakening of the deapth, and doubling the length of your *Battell* puts in danger to bee diuided and broken: So too much Doubling the deapth, and diminishing the length puts in perill to bee ouerwinged, and encompassed: And therefore

therefore a wise *Commander* will haue a care, if his *Front* bee narrow, to take the advantage of a *Trench*, *River* or *Murish*, thereby to secure his *Flanks*, that the *Enemie* may not annoy him there, and if hee can attaine to none of those, yet to make use of his owne *Waggons*.

Obserue that this *Motion* of *Doublings* alters the forme of the *Battell*, changing both the length and the deapth thereof, which no other *Motion* doeth.

Obserue also, that in *Doubling* the length of your *Battell* ye make the *παχυνομενος*, and in doubling the deapth ye make the *σποδαρως* described by (z) *Ælian*.

(a) *Ælian* speaketh of a *Doubling* of the deapth, in place which is nothing but an opening of *Ranks* to a greater distance.

(z) *Ælian*  
Tact. c. 29.

(a) *Ælian*  
Tact. c. 28.

## Of Evolution or Counter-March. Tit. 8.

**E**volution or Counter-march called by the *Grecians* (a) *Εξελιγμενος* is a *Motion* of the whole *Battell* whereby the *Front* is brought in place of the *Reare*, or one *Flanke* in place of the other.

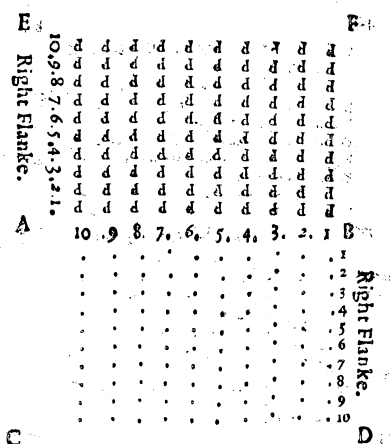
And therefore *Counter-march* is two fold: of *Files*, or of *Ranks*, and both of those, saith (b) *Ælian* is threefold, for either they gaine ground (in *marching* not in *charging*) or loose ground, or keepe that same ground, the first is called the *Macedonian Counter-march*, the second the *Lacedemonian*, the third the *Chorean* or *Persian*.

The *Macedonian Counter-march* by *File* (so called from the *Macedonians* who were the inventers and

(a) *Ælian*  
Tact. c. 26.

(b) *Ælian*  
Tact. c. 26.

(c) *Ælian* useth of it) is described by (c) *Ælian* in those wordes  
*Tabl.c. 27.* *ὅταν ὁ λοχαγὸς μεταβαλῇ, οἱ δὲ λοιποὶ, &c.* When the File-  
 Leader turneth his face, and the bringer up with all  
 the rest goe against him on the right or left hand, and pass-  
 ing on to the ground before the Front of the phalanx placeth  
 themselves in order, one after another according as  
 the File Leader himselfe hath turned his face. Or it is,  
 when the File Leader turneth his face, and the next to  
 him passing by him, on the right or left hand, placeth  
 himselfe behind him, & so all the rest one after another:  
 As ye shall see in the figure following.

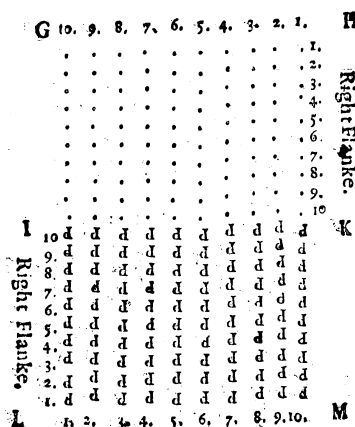


A B C D is the Battell before the Countermarch.  
 E F A B the Battell after the Countermarch, which  
 hath left the ground A B C D wherein it stood,  
 which yee see marked with points, and taken the  
 ground before it E F A B, and are all faced about to  
 the

the Reare. A B which before the Countermarch  
 was the Front, doeth yet remaine the front, but the  
 right hand file B D is become the left hand File B F  
 and the left hand File A C, the right hand File A E.  
 the Reare C D is now the Reare E F.

The wordes of Command,  
 Files Countermarch and gaine ground.

The Lacedemonian Countermarch by file, (so call-  
 ed from the Lacedemonians who invented and  
 practised this Motion) is set downe by (d) *Ælian* in  
 those wordes *ἡτοιμασθαι ὅταν ὁ λοχαγὸς, &c.* When the file-  
 Leader turning his face about to the Picke transferreth  
 the whole file to a place equall to the first, & the rest  
 following standeth behind him: or else, When the Brin-  
 ger-up turnes his face about, and hee that stood next  
 before him passing by on either hand, is placed againe  
 next before him and the rest following takes place one  
 before another as they stood till the file Leader be first.



G H I K is the Battell before the *Countermarch* I K L M the Battell after the *Countermarch* which hath left the ground it stood in before, and taken the ground behind it, the *Flanks* are changed as in the former figure. H K the *right Flanke* to K M the *left*, and G I the *left Flanke* to I L the *right*: But the *front* G H is brought to be the *Front* L M contrarie to the former, where the *Front* of both figures A B did keepe still one place.

The wordes of Command,

*Files Countermarch and loose grounds.*

The proceeding of this *Countermarch* is contrare to the former, for the *Macedonian* tooke the ground before the Battell, but this possesseth the ground after the Battell: In the *Macedonian* the *Motion* is from the *Reare* to the *front*, in this the *Motion* is from the *Front* to the *Reare*: The *Macedonian* seemeth to runne away, but the *Lacedemonian* to charge, and

(e) *Ælian* therefore it is preferred to the *Macedonian* by (e) *Ælian*, because sayeth hee, *ἡ δὲ Λακεδαιμονία ἐν τῷ ποταμῷ ἐπὶ τοῖς ἐπὶ τοῖς ποταμοῖς.*

*It maketh a show of falling on, the Enemy appearing behind: Whereas the Macedonian* *ἡ δὲ Μακεδονία ἐπὶ τοῖς ποταμοῖς ἐπὶ τοῖς ποταμοῖς.* *It maketh a semblance to the Enemies appearing in the Reare of flying away: nevertheless, in some cases, the Macedonian is of greater use, as if ye desire to gaine some ground of advantage, or else when yee desire to March on, & not give Battell, for by it ye doe not ways hinder your March, but continueth the same, & in the meantime may mak your Musquetiers giue fire vpon the Enemy, so that ye both March & fight: But the Lacedemonian falleth on vpon the Enemy, and interrupteth the March, (f) Agesilaus the Lacedemonian*

(f) *Zenophon, histor. grec. lib. 6. 605.*

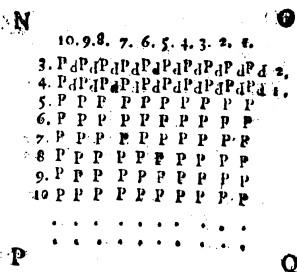
*Ælian* Generall seemeth to haue used this *Countermarch*, when hee made his Armie to March out of the Straites of *Mantineæ*, perceiuing that his Enemies were to charge his *Reare*, from the Hilles he made his *Reare-guarde* to *Countermarch*, and goe out of the Straites, himselfe staying last with the *Avantgarde*: The same (g) *Agesilaus* hauing embattelled his Troupes at *Coronea* against the *Thebans* himselfe had the right wing of the phalanx & put the *Argives* on the left wing of the *Theban* Armie to flight, but the *Thebans* hauing beaten the *Orchemenians* who were vpon his left wing forced a passage through them to the *Baggage*; which hee vnderstanding, did presentlie *Countermarch* his phalanx & ledde against them, where after a furious chocke hee killed manie of them: and manie fled away to *Helicon* after their Confederates.

(g) *Zenophon, histor. grec. lib. 4. 519.*

The *Persian* or *Cretan* *Countermarch*, used by the *Persians* and *Cretans*, is also called *Chorean*, from the similitude of the *Grecian Dances*, which are *Dancers*, called *Chorus*, used: for they ordered themselves in *Rankes* and *Files*, and danced one through another, keeping the same bounds of the place: This *Countermarch* is described by (h) *Ælian* in those wordes *ὁ δὲ χορεύων ὁμοῦ* &c. The *Chorean* is, when the *File-leaders* turning to the *Picke* or the *Target* preceedeth the *File*: The rest following, till the *Leader* haue gotten the place of the *Bringer-up* & the *Bringer-up* the place of the *Leader*, the *Bodie* mouing joyntlie together, so that this *Countermarch* maintaines and keepes the same ground the Battell stood in: And this is our *Modern* *Countermarch* which wee use in our exercises.

N

I 3.



Yee see the figure N O P Q, where the *File-leaders* of euerie *file*, with their next *followers*, that is to say, The first two *Ranks* are turned to the *right hand*, and hath begun to *Countermarch*, and are in the distances betwixt the *Files*, so that the two last of euerie *File*, that is, The 10. and 9. *Rank* hath marched vp with the rest to the *front* N O. and hath left the place of the *Rear* P Q so much voyd as the first two *Ranks* hath marched through the *Files* from the place of the *front*: so that the *File-Leaders* shall *march* vntill they come to the place of the *Bringers-up* P Q. and the *Bringers up*, till they come to the place of the *file leaders* N O. and there doe stand, and face about with the rest.

(i) *Bingam* in his *Notes* upon *Alians* *Taill. c.* 28. Captaine (i) *Bingam* expresseth this *Motion* more liuelie by figures of *Armed Picke-men*.

The wordes of Command,  
*Files to the right hand Countermarch.*  
*Files to the left hand Countermarch.*

Our wordes of Command are,  
*Stringes to the right hand Countermarch.*  
*Stringes to the left hand Countermarch.*

Because

How the Motion of this Countermarch is done.  
 Because this *Chorean Countermarch* is that which is used in our exercease, I will shew you how the *motion* is performed. If the word of Command be to *Countermarch* to the *right hand*, then all the *File-leaders* at one instant stepeth forward with the right legge: and bringing about their left legge turneth their Bodie to the *right hand*, and so *march* downe through the *files*, till they come to the place of the *Bringers-up*, where they shall stand, the rest that followeth the *File-leaders*, must not offer to turne, before they haue come vp to the place of the *File-leaders*. If the Command be to the *left hand* then the *File-leaders* must step forward with the left leg, and bringing about the right legge turne their Bodie to the *left hand*, & *march* downe as the former; The figure N O P Q sheweth a *Countermarch* to the *right hand*. The other to the *left hand*, by it may be easilie vnderstood, for if yee make the *File-leaders* to turne toward N P. which yee see now turned towards O Q. it shalbe a *Countermarch* to the *left hand*.

It seemeth to mee to be this *Chorean Countermarch* whereof the Emperour (k) *Leo* speaketh, giuing this word of Command *μεταλλοζον*. *Taill. c. 12.*

It is to be obserued in this *Motion* of *Countermarch*, that euerie follower remarke his *Leader*, and his *right hand man*, that by them hee may keepe a due distance; for otherwise the least disorder in this *Motion* will breed a confusion of the whole Bodie.

Obserue also that this *Motion* of *Countermarch* cannot be done, but at *open Order*: Also it ought not to be practised when the *Enemie* is neare hands: for if the *Enemie* should suddenlie charge a

Battell, while it is *Counter marching*, hee should assuredlie overthrow it, so that in this case, the best expedient is to *face about* your Battell.

The use of Counter marching of Files is, if the Enemy appeare in the Reare and come to charge you, yee may by this Motion bring your File-leaders who are your best men to encounter with him: for it was euer the use of good Cōmanders to bring the front of their Battel against their enemies: Thus Frōtinus witnesseth, *Alexāder & Iulius Caesar* to haue bene accustomed to bring the Souldiers who were in acie or the Front of the Battell, to fight against their Enemy (*l*) *Alexander Macedo cum haberet vehementem exercitum, semper eum statum belli elegit ut acie con-*  
*figeret. Cains Caesar Bello civili cum exercitum vete-*  
*ranum haberet; hostium autem tyronem esse sciret, acie*  
*semper decertare studuit.*

(1) Frontinus Strat.  
lib. I. c. 3.

## OF Counter-marching of Ranks.

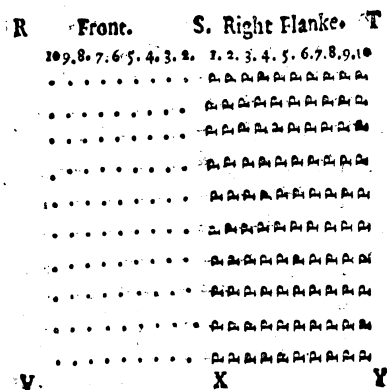
**C**ounter marching of Rankes is when one wing of your Battell is brought in place of the other, or the wings into the midst of the Battell, or one wing to double the other.

This *Counter-march* is also threefold as the former of *Files*, for it is *Macedonian*, *Lacedaemonian* and *Chorean*. The *Macedonian* taketh the ground which is on the contrary *wing* from the *Enemy*, and therefore seemeth to march away from him.

The *Lacedemonian* taketh the ground which lyeth on the side of that wing which is towards the Enemy, & therefore maketh a show of charging him. The *Chorean* keepeth still the same ground whereon the Battell stood before the *Counter-march*: *Ælian* speaketh but little of those cōntermarches by Rāks, neither haue I sene them much used in our exercise:

Yet for your vnderstanding I will set downe their *Motion*, and their figures, because some good use may bee made of them.

In the *Macedonian Countermarch* by *Ranke* the *right hand corner File* faces to the *left hand*, & stands, the rest of euerie *Ranke* passes through, and place themselues orderlie behind their *right hand sidemen*, beginning either with the vttermoſt *File* on the *left Flanke*, or with the *File* next the *right hand File*, and ſo they take vp the ground which was on the *right wing* of the *Battell*.



RSVX is the Battell before the *Countermarch*, STXY the Battell after the *Countermarche*, which hath left the place it had, and taken the place upon the *right wing*, and are all faced about to the *left*; so that the front before RS is now become the *right Flanke* ST. The *right hand File* before SX is now become the *Front*.

## The words of command

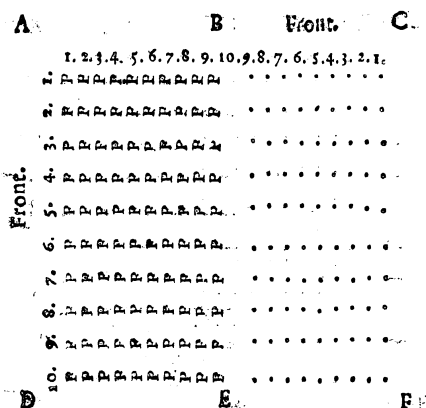
K

*Left*

*Left wing Countermarche through to the place beyond the right wing.* or

*Ranke's Countermarche from the left wing to the right.*

The *Lacedemonian Countermarche* by *Ranke* is when the *left hand corner File* turns his face to the *left hand* & the rest of every Rank passe through to the *left*, and place themselves orderly before their *left hand side man*, beginning either from the *uttermost File* on the *right hand*, or from the *File* next to the *left hand File*.



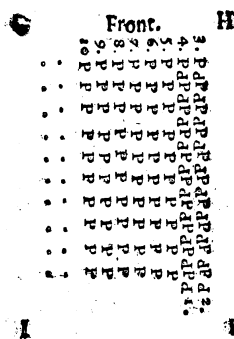
Yee see this Battell hath left the place where it stood B C E F, and taken the ground beyond the *left wing* A B D E, & they are all faced about to the *left*. The *Front* before the *Countermarch* was B C and is now become the *right Flanke* A B. The *right hand File* C F is now the *Front* A D; The *left hand File* B E keeping still its place becomes the *Rear*. The

### The wordes of Command.

*Right wing Countermarche through to the place beyond the left wing.* or

*Ranke's Countermarche from the right wing to the left.*

The *Chorean Countermarche* by *Ranke* is when the *right hand corner File* faces to the *left*, and marches forward to the place of the *left hand File*; the rest of every rank following it, & the body moving joyntly together while the *right hand File* come to the place of the *left hand File*, and the *left hand File* to the place of the *right hand File*, so that the bodie keepeth still that same ground it had before: or to doe this more easily, face only about your Battell to the *left*, and then command a *Countermarche* of *Files* and this will produce the same effect; for it is all one to bring the *front* of your Battell to the *Rear* when it is faced to the *right* as to bring the *right wing* to the *left* before it be faced.



In this Battell ye see the first man of euery Ranke with his Sydman that is to say, the first two Files on the *right Flank* H K are turned & are *Counter-marching* through the distances betwixt the Ranks: the rest hath followed them on, to the *right Flank* and hath left the place of the *left Flank* G I so much voyd as the first two Files hath marched through the Ranks from the place of the *right Flanke*, so that the *right hand File* shall marche on till it come to the place of the *left hand File* G I: And the *left hand File* till it come to the place of the *right hand File* H K, and so the Battell shall maintaine the samine ground it stood in, and bee faced to the left.

The words of Command are,  
Ranks to the right or left hand Countermarche and maintaine ground.

Our words of Command are,  
Countermarch your Ranks to the right or left hand.

The use of Countermarching by Ranks is: when the enemy appeareth on your *left wing* to charge you, yee may by this motion oppose him with your best men, and bring your *right wing* in place of the left against him: and may apply your *left wing* to some advantage, as a River Marsh or Trench, that thereby it may be secure from encompassing: or else it serues to bring one of your wings in place of the other: when being embattelled ye minde to change the forme of your embattelling: as if yee desire to set the *right wing* of your Battell against the *right wing* of your enemies Battell for some advantage of fight: This did (m) Pausanias generall of the Grecian armie at

(m) Herodotus  
det. in

the

the Battell of Platea against the Persians: who hauing embattelled the Lacedemonians in the *right wing* of his armie and the Athenians in the left: Mardonius the Persian Generall gaue the Thebans and other Greekes his *right wing* and the Persians the *left wing*, Now Pausanias desiring to oppose the Athenians against the Persians as being better acquainted with the Persian fights then the Lacedemonians, he Countermarched his *right wing* to the place of the left: and so brought the Athenians against the Persians, which Mardonius perceiuing did the like, & immediatlie Countermarched his *right wing* of Thebans to the *left wing* of the Persians as fearing to joyne the Persians with the Athenians.

By this manner of Countermarche yee may bring your wings in place of the body of your battallion which is this done: Your *right hand File* faces to the left: the *left hand File* to the right, and marche both in towards the center of the Battell while they meet other face to face: the rest of each Ranke vpon both wings followes them and marches out vntill the two middle Files haue gotten the place of the corner files, and the corner files the place of the middle Files. By this meanes P. Scipio making warre in Spaine against Asdrubal brought the Romans into the wings, and the Confederates into the midst of his Battell, whereby he overthrew Asdrubal, as (n) Polybius and (o) Livius at more length reportes. This is of excellent use in our discipline, to bring the picks to the wings & the Musquetiers to the midst of the Battell, in case there were any charge of Horse vpon both your Flanks, for by this, the Pickemen

Calliope.  
248. &  
Plutarch.  
in Aristide.

(n) Polyb.  
Hist. lib. 11  
Sect. 7.

(o) Livius.  
decad. 3. lib. 8.  
204.

K 3

would

would receiue the charge of Horse, and the Musketiers giue fire vpon them.

Ye may also by this *Motion* double one wing with another to mak the *δεξιόπαινος*: which is done as before, except that the *Flanks* doe not march through, but when the *Corner-File* of the one *Flanke* is come in euen line, and joyned with the *Corner file* of the other *Flanke*, then yee command an *halt* and a *facing* of them all to the *Front*:

Obserue, that the *Countermarch* of *Files* & of *Ranks* takes not the denomination à *movente*, as would appeare: but à *loco in quo fit motus evolutionis*: for in a *Countermarch* of *Files*, it is the *Ranks* that *countermarches* and moues downethrough the distances betweene the *Files*, the first *Rank* beginning, the second with therest, continuing the *Motion*, till it bee ended: In a *Countermarch* of *Ranks*, the *Files* *Countermarches*, and moues through the distances betwixt the *Ranks*: the *Corner-File* which hath the command to *Countermarch*, beginning the *Motion*, and the rest of the *Files* continuing it vntill it bee finished. And therefore in the *Countermarch* of *Files*, the *Motion* is in the *deapth* of the *Battell*, in the *Countermarch* of *Ranks* the *Motion* is in the *length* of the *Battell*. Hence it is, that the illustrious Count (p) Mansfield calleth a *Countermarch* of *Ranks* when the *front* is brought in place of the *Reare*, and a *Countermarch* of *Files* when one *Flanke* is brought in place of the other, which is contrarie to the common appellation both of the *Auncients* and *moderns*, or else I cannot see how hee can bee reconcealled vnto them.

Of

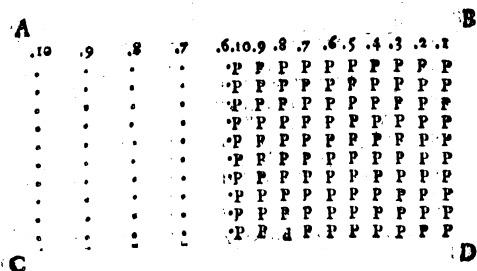
## Of Closing, and Opening the Battell. Tit. 9.

**C**losing, is a drawing of the *Battell* to a lesse distance. Opening, an extending of it to a greater distance then it had before: and both are either in *length* or in *deapth*. And therefore two-folde: of *Files* and of *Ranks*.

*Closing* of *Files* is a contracting of the length of the *Battell* maintaining the same *deapth*, and it is threefolde, for *Files* are either closed to the right hand, or to the left, or to the middle of the *Battell*: The (a) *Greekes* calleth these *Motions* *αἰχμὴν ἐν τῇ δεξιῇ ἡ ἡγεῖα ἢ ἐν τῇ ἀριστερῇ ἢ ἐν τῇ μέσῃ*. To thicken to the right wing or the left wing, or the midst of the *Phalanx*. (b) *Leo* calleth the closing to the right and left *αἰχμὴν καὶ πλάγην*: To bee thickened towards the sides. (c) *Ælian* sheweth how the closing to the right hand is to be done in those wordes *καὶ ὁ ἐν τῇ δεξιῇ &c.* Ye d. cap. 32. must command the right hand corner *File* to stand still, and the rest turning their faces to the *Picke* to advance forwards towards the right hand, vntill they haue gotten the distance commanded, the second *File* first taking his distance, and the rest their distance from him, and then all to face as they were.

(p) Count Mansfield in his Direct of war.

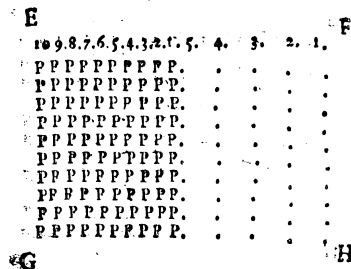




The figure A B C D is the boundes where the Battell stood at *open order*; imagine then the *right hand File* B D to haue stood still, and the rest of the *Files* to haue *marched* from the *left Flanke* A C. towards the *right* B D so that they are contracted to halfe the boundes they possessed before the *closing*, and therefore standes at *order* or the distance of *three foote*, from A C to the *left hand File*, is the boundes which is left after the *closing* wherein the halfe of the Battell did stand before the *closing*; to wit the 10. 9. 8. 7. and 6. files: so that the 10. File doeth now stand in the place where the 6. stood before the *closing*.

If yee close *Files* to the *left hand*, yee must make the *left hand corner File* stand still, and the rest *facing to the Target* advance forward to the *left hand* as the former did to the *right* vntill they haue all gotten their distance requyred, and then they face as they were.

E



E F G H is a *closing* to the *left hand*, where yee must conceiue the *left hand file* E G to haue stood still, and the rest of the *Files* to haue advanced from the *right Flanke* F H vntill they haue contracted themselves as yee see: so that they possesse only the halfe of the boundes they had before they closed: From F H to the *right hand File* is the boundes wherein the halfe of the Battell stood before the *closing* to wit, the 1. 2. 3. 4. and 5. Files: so that the first file possesseth now the place which the tyft had.

If yee would close your Battell to the *middle*, (saith *Ælian*) yee command the two *middle Files* to stand still, and then the *diphalanx* (that is the halfe Battell) on the *right wing* to face to the *Target*, and the *diphalanx* on the *left wing* to face to the *Picke*, and then to moue forwards to the middle of the *phalanx*, the two *middle files* also close, and so after they haue gotten their true distance they face as they were.

L

2

## Of Closing of Files.

| I.  |   | K           |      | L. |
|-----|---|-------------|------|----|
| 10. | 9 | 10987654321 | 2    | 1  |
| .   | . | PPPP        | PPPP | .  |
| .   | . | PPPP        | PPPP | .  |
| .   | . | PPPP        | PPPP | .  |
| .   | . | PPPP        | PPPP | .  |
| .   | . | PPPP        | PPPP | .  |
| .   | . | PPPP        | PPPP | .  |
| .   | . | PPPP        | PPPP | .  |
| .   | . | PPPP        | PPPP | .  |
| .   | . | PPPP        | PPPP | .  |
| M.  |   | N           |      | O  |

This figure is a closing of the Battell to the middle: The middle Files in K N: that is, the 5 & 6 files stands still: The halfe Battell K L N O moues from the right Flanke L O towards the middle K N: The halfe Battell I K M N moues from the left Flanke I M towards the middle K N: so that the whole Battell I L M O is closed to halfe the distance it had before, leauing the boundes voyde on the right Flanke L O where the first and second File, and on the left Flanke I M: where the 9. and 10. did stand.

The wordes of Command,

Files close to the right hand.  
Files close to the left hand.  
Files close to the middle, or  
as some say, Files close: for when the Command is onelie for Files to close: without nameing any hand, it is to bee vnderstood a closing to the middle.

Our Scotcs wordes of Command,

close

## Of Closing of Files.

Close your Stringes to the right hand,  
Close your Stringes to the left hand,  
Close your Stringes.

To your first or  
second distance.

Some will Close Files to the right and left by diuision making the halfe Battell on the right hand, moue from the middle to the right hand File, and the other halfe on the left hand, to the left hand file, leauing the voide distace in the middle which other closings leaues vpon the wings, as if the halfe Battell should moue from K N to L O, and the other halfe from K N to I M, with this word of Command,

Files close to the right or left by diuision  
to your order, or close order.

To reduce your files after closing to their first posture or station is to open Files to the distance they had before their closing of which I shall shortly speake.

(c) *Alian* saith that closing of Files is to bee done by facing as indeed it is the most fitte action, but I haue scene many Commanders in exercise use this Motion without any Facing; only mouing sydelings to the hand to which the command is to close, and forsooth they will defend this to bee good, because say they Facing in so small a bounds as a private company taketh vp is needlesse, but, I say they maintaine an error, for laying aside the authoritie of the Grecian practise (which justly may bee tearmed the touchstone of martiall discipline,) they are easily convinced by reason, because Facing performes the Motion more assuredly and more gracefully then going asydwyes, seeing their steps are not sure being subject to stumbling, neither the actio comly, and although the first or second file next the hand

(c) *Alian*  
Tact. c. 32.

How the  
Motion is  
to bee per-  
formed.

## Of Closing of Files.

to which they close, haue but a litle ground to goe: Yet the ground doth accresse according as the files are remoued from the *standing File* (which our blunt Commanders doth not consider), so that the vitermost File must *march* the halfe of the boundes wherein the battell stood before the closing: as for example, Say, yee had a single company of 200 men, making you 20 in *Front*, and standing at *open order*, fixe foote betwixt Files: The bounds that the length of your Battell takes vp, is 120 foote (this is found by multiplying the number of your men in *Front* by the distance they stand in: as 20 multiplied be 6 the *factum* is 120) if then yee command Files to close to the right hand to their order or distance of 3 foot: the left hand File shall haue 60 foote of ground to march before he close to his distance requyred; which if hee march *sydelings* yee may easily consider what a stedfast and gracefull Motion it will bee: The Argument then is euident.

*The most assured and most gracefull Motion is the best Motion.*

*But so it is, that closing of Files by facing, according to the Grecian forme, is the most assured and most gracefull Motion.*

*Ergo,*

*Closing of Files by Facing is the best.*

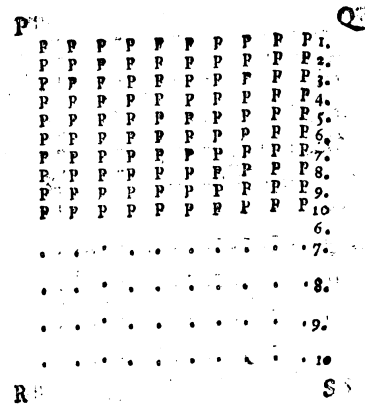
The major I hope no man vwill deny: The minor I haue alreadie proven. This I thought good to aduertise you, whom I would wish to learne the Arte Militare, *scientifice*, and not according to the vulgare *Kanones* for there are manie men who per-

## Of Closing of Ranks.

pertinaciously will maintaine their badde customes, and will obtrude them for precepts and good Laws vpon men, as also I haue knowne manie Commanders more fraught with a Thraconicall ostentation, then any skill to performe their charge.

**C**losing of Ranks is a contracting of the deapth of the Battell, and it is performed one way only, to wit, towards the *front*, which is thus done.

The File-leaders or first Ranke stands still, the second Ranke comes vp and closes to the distance commanded, the rest of the Ranks moue vp, and close to the same distance, euerie man taking his distance from his Leader.



This figure P Q R S is the boundes wherein your Battell stood at *open order*, or distance of 6 foote betwixt Ranks, Now the *deapth* is contracted and the Ranks hath marched vp from the *Reare* R S, and closed towards the *Front* P Q to their

their order or distance of 3 foote, so that your Rankes possesse only the halfe of the boundes they had before the *closing*: from R S to the 10 Ranke is the voyd ground wherein the halfe of your Rankes did stand before your *closing* to wit, the 10. 9. 8. 7 & 6. so that the 10 Ranke stands now in the place where the 6 stode before the *closing*,

The wordes of Command,

*Close your Rankes to your order or close order.*

Our wordes of Command

*Rankes close to your second or third distance.*

(d) Leo  
Tact. c. 7.  
§. 84.

The Emperour (d) Leo speakes of a *closing* of Rankes backwards to the Reare, which he calles *consolidatio*; this Motion because it is not common nor yet agreeable to our moderne practise I will not touche.

OF opening of Files.

**O**pening, is an *extension of the length or deapth of the Battell* and therefore is twofolde: of Files or of Rankes.

*Opening of files* is an *extension of the length of the Battell in place*: and it is threefolde as was the *closing*: For Files are opened to the *right hand*, or to the *left hand*, or to *both*.

*Opening of Files to the right hand* is thus performed. The *left hand File* stands still, the next File vnto it first taketh its distance pressing vpon the next File on the *right hand* and so the rest of the Files successivelie still presseth vpon the *right hand* till they haue all obtained the distance commanded,

T

T V  
109 87654321  
P P P P P P P P  
P P P P P P P P  
P P P P P P P P  
P P P P P P P P  
P P P P P P P P  
P P P P P P P P  
P P P P P P P P  
P P P P P P P P  
P P P P P P P P  
P P P P P P P P  
X Y

TVXY is an *opening of Files to the right hand* where yee must conceiue the *left hand File* TX which is the 10 to stand still, so ye see the 9 and 8 to haue already taken their distance, and the rest of the Files to be moueing towards the *right hand* VY, till they haue all gotten their distance, required.

In *opening of files to the left hand* ye must doe the contrare way, for yee make the *right hand File* stands still, and the rest to *open* towards the *left* stil pressing vpon the *left hand*, as the former did vpon the *right hand*, till they haue all gotten the distance commanded: and so both of them taketh vp the double of the boundes they stood in before.

L 4

A



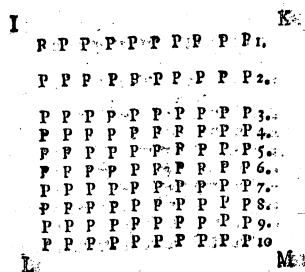
## Of Opening of Rankes.

Our wordes of Command,

Open your Stringes to the  
right hand.Open your Stringes to the  
left hand.

Open your Stringes.

Opening of Rankes is an extension of the deapth of the Battell in place, and is performed but one way, to witte, towards the Reare, which is thus done: The File-leaders, or the first Ranke standes still, and the rest of the Rankes falles backwardes towards the Reare, vntill the second Ranke haue gotten its distance, which then standes; the rest of the Rankes moues still backwardes, vntill they all haue gotten their distance commanded.



I K L M is an Opening of Rankes where yee see the 2 and 3. Rankes hath moued backwardes, and hath already taken their distance, and ye must conceiue the rest of the Rankes to be mouing from the Front I K backwardes to the Reare L M vntill they all get their distance required.

The wordes of Command,

Rankes

## Of Opening of Rankes.

Rankes open to your open order or any order else.

Our wordes of Command.

Open your Rankes to your first distance or any distance else,

Some vlean opening of Rankes also forwards from the Reare to the Front if the ground permitt.

The action of these Motions of opening which I haue now showne both of Files and Rankes by making the Files presse vpon their Sydmens, and the Rankes vpon their Followers, is according to our common moderne exercise, which differs much from the action of the Ancient (e) Greeks; for they in opening Files and Rankes did performe the Motion by Facing: but in my opinion our common forme is rather to be followed: for although it want not its owne inconveniencies being subject to stumbling on stobbs stones, or holes in the way; Yet in respect the terminus ad quem is not certaine nor seene as it was in closing of Files and Rankes: The last Ranke, or the vtermost File which beginneth the Motion of opening, shall never bee assured where to stand, or in what part to set themselves, to giue a due competent ground to all the Rankes or Files to take their distance commanded; neither can the same be discerned be the ey of the Commander: and therefore the Motion must bee begun, and the distance must first be taken from the terminus à quo which is seene and certaine: to wit, the Ranke or File that stands and so euerie one after other shall assuredly get their distance commanded, which they could not do behind their backs if they used a Facing but in this I submit my selfe to the judgement of the more learned.

M 2

ned:

(e) Elian.  
Tact. c. 32.

### of Opening of Ranks.

ned: For I think alfo that Souldiers may bee taught  
to take their diftance by pacing.

Obferue that *closing* and *opening* both of *Files* and *Ranks* are one anothers *reducemēt*s as if ye *closed Files* to the *right hand*; and would reduce them to their firft ftation, command them to *open* to the *left*; if ye *opened Files* to the *left hand*, to bring them as they were yee muft *close Files* to the *right hand*; if yee *closed* to the *middle* open to the *right* and *left* by *diuifion*: and fo they are reduced, & *è contra*. Again if yee *close ranks forwards* open them *backwards*, and fo yee bring them as they were & *è contra*.

(f) *Alian.* (f) *Alian* calleth an opening of files or Rankes *διπλασι*  
*Tatt. c. 28.* *σμερομεταξυγα i ητα βυθος το ποτα* a doubling of the  
length or depth in place, which in my opinion is not  
fitly spokin, for although Files and Rankes bee ope-  
ned to a greater distance yet the Bartell cannot bee  
said to be doubled.

(g) *Supra*  
Tit. 3.

The use of opening and closing the Battell in length and depth yee may finde (g) before, when I spoke of distances to the which I remitt you, for I will repeat nothing: only this, I addethat Battells are opened and closed, when a Generall will make his Armie appeare strong or weake according as hee mindes to terrifie or allure the enemie, Files are closed to the right or left hand when a troupe of Horse or Foote or Waggones with bagadge are to passe betwixt either of your Flankes and some strait: Files are closed to the right and left by division when yee will make a streete through your Battell for a Generall or some great Commander to passe.

## Of Conversion or Wheeling<sup>93</sup>

*Tit* 10.

**C**onversion or Wheeling is a Motion of the whole Battell towards the Flankes or Rears, changing the ground:

And therefore *Wheling* is two fold, the one when the Battell makes a *quarter turne* to the *right* or *left Flanke* which the Greeks calles *μεταβολη* or *conversion* the other when it makes an *halfe turne* to the *Reare* be the *right* or *left hand*; and this they call *περιστροφη* or *inflexion*: no other language except the Greeke doth expresse this *Motion* in two severall wordes.

*Epistrophe*, is described clearly by (a) *Ælian* ὅταν (a) *Ælian* πικρὰν τὴν σιωπὴν, καὶ σαρκατῆν, ἢ σκατῆν ἴδον το σιωπᾶν. *Talk.* 24.

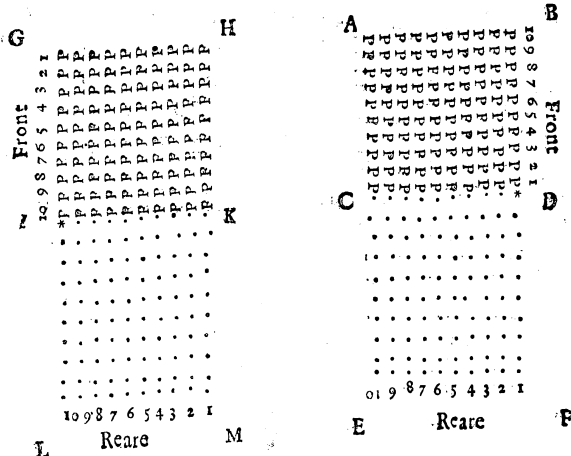
When closing the Battell bee the Sydemen and the followers we turne it whollie as the Body of an man either to the Picket or the Target it beeing carryed about the corner File-leader as about a center, and changing the place of the Front, transfer the countenance of the Soldiers to the right or left Flanke.

(b) *Alian* in an other place setteth it down more ample, & it is thus to be performed: Ye must commaund the *Files* to close to the *hand* to which ye mean to *Wheele* & the *Rankes* to close also *forwards*: Then yee cause the *Corner File-leader* on the same hand to stand still as the fixed foote of a compasse but moueing in his owne place, and all the rest keeping their *Files* and *Rankes* closed to turne to the same hand joyntly about the *corner File-leader*, vntill the *front* of your Battell be towards the *Flank* to which

M. 3.

yes

ye *Wheele*, so that the *Front* of the Battell beeing wheeled falles like a perpendicular line vpon the *Front* of the Battell before it *Wheeled*, making a *right angle* of 90 degrees at the *corner File-leader* about whome they *Wheele*, and the *Flanke* falles vpon the *Front* as a *parallel* which the figure following sheweth.



The figure ABCDEF is An *Epistrophe* or *wheeling* to the *right hand*. CDEF is the Battell before the *Wheeling*, whereof CD is the *Front*, DF the *right hand File*: The Command beeing given, the *right hand File-leader* D who is thus marked \* stands in his place, and the whole body turnes about him, vntill the *Front* of the Battell be in an *even line* with the *right Flanke* of the former. The Battell after the *wheeling* is ABCD whereof BD is the *Front* DC the *right hand File*: BD falls as it were perpendicular vpon

vpon the former *Front* CD, making the *angle* BD C a *right angle*, DC falles as it were *parallel* vnto the former *Front*.

The other figure is a *Wheeling* to the *left*, which by the former ye may easily vnderstand: for the *left hand File-leader* I. hauing also this mark \* stands ft ll, and the whole Battell moues about him to the *left*, leauing the place they stood in IKLM and taking the place GHIK. The *Front* of the Battell before the *Wheeling* is IK, the *left hand File* IL: The *Front* after the *Wheeling* is GI: The *left hand File* IK, which is *parallel* vnto the former *front*, and GI falls vpon IK, & maketh the like *angle* as was in the former figure.

After yee haue made them *close Rankes*, and *files*: The words of command for *Epistrophe*, are,

*Wheele your Battell to the right hand.*

*Wheele your Battell to the left hand.*

Our wordes of Command are,

*The Great turne to the right about,*

*The Great turne to the left about.*

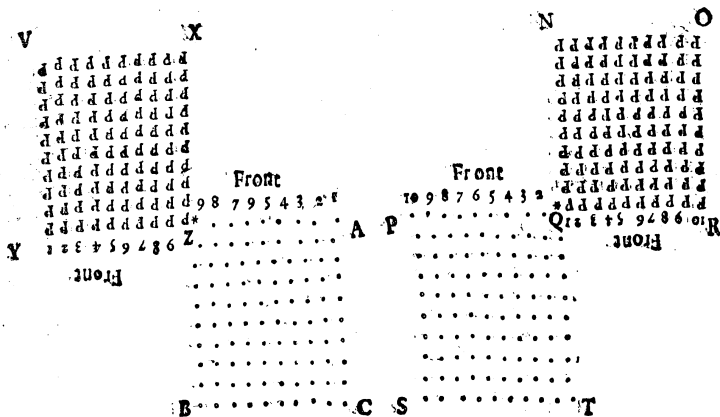
Περὶ σπασμῶν (saith (c) *Alian*) ἐστὶν ἡ συνήθεια τῶν στρατιωτῶν ἀντιπρὸς ἀλλήλων ὡς ἐπὶ τοῦ σπασμοῦ. *Perispasmus* (c) *Alian* *Tab. c. 244.*

or *Wheeling* about is a *Motion* of the Battell in two *Epistrophes* or *single Wheelinges*, whereby the *Front* is brought in place of the *Rear*.

In performing of the *Motion* yee must doe all as before in *Epistrophe*, except that your Battell must make an *half turne* towards the *Rear* to the *right* or *left hand*, whereas before it made onlie an *quarter turne* to the *right* or *left hand*: So that *Epistrophe* brought the *Front* of the Battell to either of the *flanks*, *Perispasmus* brings the *Front* to the *Rear* as yee see in the figure following.



# of Wheeling.



The figure NOPQR is a *Perispasmus* or *Wheeling* about to the *Reare* by the *right hand* where the *left hand fileleader* Q\* stands still, the rest of the body moves about him an *halfe turne* vntill they bee all *faced* to the *Reare* and leaues the place they stood in, P Q S T: and takes the place N O Q R, so that it falls vpon the other like an *quadrant* vpon an others *angle* the *right hand fileleader* beeing the point of the *angle* to them both: the *Front* before the *wheeling* is P Q: the *right hand file* Q T: the *Front* after the *wheeling* Q R: the *right hand file* Q N which falls in a *right line* with the former Q T.

The other figure is a *Perispasmus* or *wheeling* about by the *left hand*, where the body moves about the *left hand fileleader* Z\* to the *left* making an *halfe turne* till they be all *faced* to the *Reare*, and leaues the place they stood in Z A B C & takes the place V X Y Z.

The

## Of Wheeling.

97

The *front* before the *wheeling* is Z A the *left hand File* Z B: the *Front* after the *wheeling* is Y Z, the *left hand File* Z X, which falls in a *right line* with Z B. Obserue that the *corner fileleaders* about whom the *Battell* is turned, either to the *flankes* or to the *Reare*, which I haue marked so\*, are laid to *stand still*, not in respect of *Motion*, but of altering of ground, for they doe also moue in their own place where they stand, not changing the ground, onely *facing* to the *hand* they *wheele*, but all the rest changes the ground and moues to the *Flankes* or the *Reare* as the *Commā* is.

The wordes of *Command* for *Perispasmus*, after *closing* the *Battell* are,  
*Wheel your Battell to the right hand about,*  
*Wheel your Battell to the left hand about.*

Our words of *Command* are.

*The great turne to the right round about.*  
*The great turne to the left round about.*

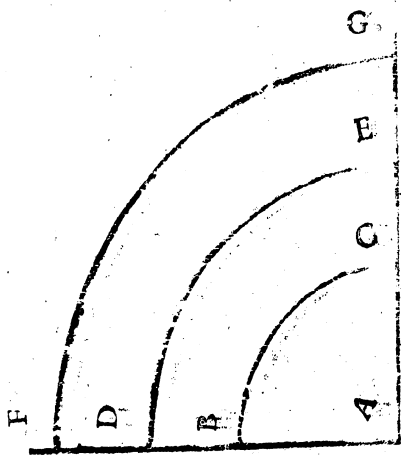
The *reducement* from a *wheeling* which the (d) *Alian* *Greekes* calleth *αναγκη* is thus performed. If ye made an *anagkē* or *quarter turne* to either *hand*, yee must first *face* them to the *contrarie hand*, and then *wheele* the *Battell* backe to the place it stood in before: and after they haue *faced* againe as they were, *Open Rankes* and *Files*, and so they shall bee brought to their first station, (many doe not use a *facing* in this *Reducement*): but if yee haue made a *Perispasmus* or *halfe turne*, To reduce the *Battell*, ye must yet mak another *Perispasmus* or *wheeling* about to the same *hand*, as if yee wheeled about to the *right hand*, yee must yet *wheele* about to the *right hand*: if yee wheeled about to the *left hand*, ye must yet *wheele* about to the *left*, and then *open Rankes* and *Files*, and so your

N

Battell

Battell shall bee reduced to its first Station.

Obserue that the Remoter the Souldiers be from the Fileleader that stands, and the neerer they approach to the opposite corner, the swifter pace they must moue in wheeling, because they make a greater arc of an Circle, and therefore, hath more bounds to walke, for euery Ranke of the Battell in wheeling considered as a Rhombe, describes an quadrant or semi circle according as the wheeling is to the Flanks or the Reare about the corner Fileleader as a center: And ye know that of many Circles described about one center, taking proportionable arcs, they shall be Unequall in bignesse, for the Remoter the Circles be from the Center the greater the arcs of them are, as yee see in the figure following.



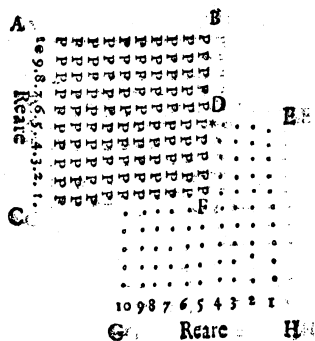
F G

F G and D E and B C are proportionable arcs of three Circles described about the center A, whereof yee see F G to bee the biggest, because it is remotest, & B C the least, because it is nearest to the center A. Suppose then three men were placed, the one in F, the next in D, the third in B, and were to make their course, the one to G, the next to E, the third to C, which they behoued to make in equall time, it is certaine that hee who goes from D to E must goe more swiftly than he who goes from B to C, because his bounds is greater, and he who walks from F to G must goe yet a swifter pace than hee who went from D to E, because his arc is geater.

Hence it is cleare that the Remoter the Souldiers are from the File leader about whom they turne, the swifter pace they must goe, because they describe the greater arcs, and the File-bringer up who is Diagonallie opposite to the File-leader that stands as Center, describes the greatest arc of all: For lacke of this consideration, I haue seene much disorder in wheeling of a Battell.

There is another kinde of Wheeling used in the Low-Country exercise: which is a wheeling by the Center to either hand, or to either hand about: It is thus performed: The middle File-leader of the Flanke, to which they wheete stands still, as the Center, all the rest moues about him, the one halfe falling backward, the other halfe advancing forward, according as the Command is to wheele: If the Command bee to the right hand, the right Flanke middle File-leader standes still, and all those of the right Flanke goeth backward, the left flanke forward: If to the left hand, the left flanke middle

the *File leader* stands, the *left flanke* moves backward, and the *right* forward, vntill they haue all made their *Quarter turne*, or *halfe turne*, as the word is to *whee*le to the *Flankes* or the *Reare*.



This Figure is a *wheeling* of the Battell by the *Center*, to the *right hand*, where the *sixt File leader* D did stand as the *Center*; the body hath moued about him, the *right Flanke* F C falling backward; & the *left Flanke* A B advancing forward, vntill they haue left the place D E G H and taken the ground A B C F. D E is a part of the *Front* before the *wheeling*; E H the *right Flanke*; B F is the *Front* after the *wheeling*; F C the *right Flanke*; the number of the *Files* are set downe in the *Reare* of both the figures, because I had no place to set them in the *Front*, for the intersection of the two *Fronts*.

By this yee may also easilie conceiue a *wheeling* to the *left*, for making the *sixt File leader* to stand, & the *right Flanke* F C to moue forward, and the *left Flanke*

*Flanke* B A to fall backward and make a *quarter turne*, vntill the *Front* B F shall be converted to the *left hand*. Likewise yee may consider a *wheeling* to the *right* or *left about*; if yee cause the *Bodie* make an *halfe turne* to either hand, vntill the *front* bee towards the *Reare*, so that B F shall fall parallel vnto the former *front*; whereas now it cuttes it perpendicularlie.

The wordes of Command for this Motion.

*Wheel your Battell by the Center to the right hand.*

*Wheel your Battell by the Center to the left hand.*

*Wheel your Battell by the Center to the right or to the left hand about.*

This *Wheeling* doeth not alter the ground so much as the other *wheelings*.

The use of this Motion, is when the *Enemie* comes to assault you in any one place, as on either of the *Flankes*, or the *Reare*, ye turne the *Front* of your Battell towards him, and so brings your best men to fight with him, which Good Commanders was alwayes accustomed to doe, as I shew before; But if he come to charge you on more places then one, as in the *flankes* and the *Reare*; or in the *Front* and the *Reare*; or in the *front* and the *flankes*, *Wheeling* will doe you no good! your onelie remede will bee to *face about*, and receiue his Charge: By this Motion (e) *Pyrhus* ouerthrew *Arceus* King of *Lacedemon*, and (f) *Amilcar* defeateth *Spendius* with the rest of his *Rebels*. See the *Histories*, For I will not burding this small Treatise with many *Allegations*.

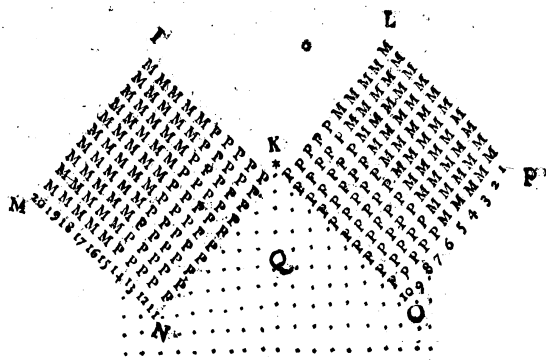
Obserue that *Epistrophe* and *Perispasmus* are in the whole Battell, the same which *Clisis* and *Metabole*

The vse of  
Wheeling

(e) Plutar.  
in Pyrro.  
(f) Polyb.  
Hist. lib. 5.  
Sect. 21.

was in a particular Souldier, for as this turnes the face of the Souldier to the Flanks or the Reare, keeping still his place, so doeth the others turne the face or front of the whole Battell to the Flanks or the Reare, changing the ground.

There is another kind of Wheeling which is when the wings are wheeled into the Bodie: & this is done either towards the Front or towards the Reare, If towards the front, then yee command the middle file leaders to stand still (I meane from changing of ground not from Motion, for they moue in their owne place) and the right wing to wheele forwards to the left, about its owne middle Fileleader, transferring their faces to the contrarie wing: The left wing in the same time wheeles forward to the right, about the other middle Fileleader, meeting the other wing in the midst face to face. Then the Commander bids the right wing, face to the right hand, and the left wing to the left hand, & so they shall all haue their aspect towards the front. If the wheeling be towards the Reare, ye must first face your Battell about by either hand, then the bringersup of the middle Files who are now become leaders stands still & both the wings shall moue about the Bringersup, the one to the right hand, the other to the left, till they meete other in the midst as did the former: then the Commander may bring their aspect to the front or the Reare as hee pleases.



This figure is a Wheeling of the wings into the midst of the Battell towards the Front, where ye see the right wing K L O P to bee wheeling to the left hand, about the middle fileleader K, & the left wing I K M N to be wheeling to the right, about its owne middle Fileleader, marked also K, and ye must conceiue those two wings to moue still on, vntill they meete other, the Pickes joyning with the Pickes and the Musquetiers with the Musquetiers, and then the left hand File of the left wing I M shall come in euin line with the right hand File of the right wing L P making thereof the Front of the Battell after they are turned, and the File K N shall come in an euin line with K O making thereof the Reare. N Q O is a parte of the ground where the Battell stood before it began to wheele. But if yee wheele your Battell towards the Reare ye must conceiue N and O to be joyned & to stand still, and the right wing after

after it is faced about, to wheele to the right hand about O, & the left wing to wheele to the left hand about N, vntill they meete other face to face, so that the File I M shall come in euen line with L P.

The wordes of Command for this Motion are  
Wheele the wings into the midst of your Battell

Or

Wheele your Battell to the right & left hand by di-  
uision towards the Front or towards the Reare.

The use of this wheeling is to bring all your Musquetiers or all your Pickes to the front as occasion shall serue, and therewith to double your front. The Musquetiers are brought to the Front, by wheeling towards the Front, (if they were before on the flanks.) The Pickes are brought to the Front, by wheeling towards the Reare (if they were before in the middle): Suppose then that an troupe of the enemies horse were comming to charge your front, or your Reare, minding also to encompasse your wings, by this wheeling of the wings into the midst of your Battell, with one labour yee both bring your Pickes against the Enemies horse, and doubles the length of your Battell to eschew over-  
winging.

This wheeling hath onely a quarter turne, but if yee will make an halfe turne either to the Front or the Reare, yee shall bring the Pickes to both Flanks, if they were before in the mids: as in the former figure, if yee should make an halfe turne, the Files KO and KN shall come to bee the flanks of the Battell, and IM and LP shall joyne in the middle.

This is of good use against troupes of horse coming to charge both your Flanks, for the Pickes may

may withstand the charge of the horse, and the Musquetiers play vpon them from the middle.

The wordes of Command.

Whele your Battell to the right and left hand about by diuision.

If ye wold reduce any of those to their first station, ye haue nothing to doe, but to face to the contrarie hand and to wheele your Battell back the contrary way quarter turne or halfe turne as they wheeled first, and then they face as they were.

(g) *Alian* describeth an triple wheeling which he <sup>(g) *Alian.*</sup> <sup>*Tabl. c. 24.*</sup> <sup>*& cap. 31.*</sup> callerth *επιπλοή*, but I thinke it is an superfluous and foolish Motion, neither can I belieue that ever the *Greeks* did use it, for to what effect shall ye make an *επιπλοή* or triple wheeling of your Battell to the Picke or the Target, when a single wheeling, or quarter turne to the contrary hand will effect the same with greater readinesse, and thrise alse little paines and time? as for example, if you make an *επιπλοή* to the Target, that is, if yee wheeled your Battell thrise to the left hand, yee bring the Front of it to the right Flanke against the enemies: now if you make but one *επιπλοή* or single wheeling to the right hand, yee doe the same thing, and I thinke there is no man of sense but will accorde that it is superfluitie, to use three turnes when one turne will doe the businesse, and chiefly in affaires of warre where the lest moment of time doth carrie with it a great weight: This I thought good to aduertise anie who shall read this Motion in *Alian* that hee may eschew it, for it is not only against our moderne exercise, but contrarie to sense and reason.

## Of the particular exercising of Picke-men and Musquetiers.

Tit. II.

**O**Vr *Pickemen* (as I shew before) represents the *heauie armed*; our *Musquetiers* the *light armed*; both of the *Grecian Phalanges*; and the *Roman Legions*.

Their *heauie armed*, did carie for defence: a *Target*, besides the compleat arming of the bodie: but whether the Discipline of our time hath done well or not, in laying aside the *Target* from our *Pickemen*, I will not disput, because it is thought *heauie* and *vnwealdie* for an armed man, and *verie* noysome in a *March*, yet I thinke that custome and exercise would alieuiat those difficulties, and I belieue no good *Commander* will deny, but it were expedient that stronge able men beeing *File leaders* of euerie *Battaillon*, were appointed to carie large *Targets* of prooffe, after the *Macedonian* fashion, that vnder the shaddow of them, the rest of the *Battaillon* might be sheltered from the shot of the *Enemie*, and also the *Battaillon* might be kept strong against the *charge* of the *Enemie*, minding to breake it, as the *Greekes* did, when they made their *Onrush* which did mightilie astonish the *Romans* themselves when they had adoe with them, for (a) *Consul Lucius Emilius saepe apud Romanos confitebatur se nihil unquam uidisse terribilius Phalange Macedonica*.

Now as for the particular exercise of the *Pickemen* alone, there is no other, but that they ought exactly to doe their *Postures* shown (b) before (the

Mo.

## Of exercising of pickemen.

*Motions* which I haue hitherto described, beeing alike competent to them & the *Musquetiers* for ordinarlie the *pickemen* in time of fight or skirmish doeth nothing vntill the *Battells* come neare to push of *picke*, and then onelie they *charge* their *picks* against the *Enemie*, for the burding of sustaining the fight before that, lyes vpon the *Musquetiers* of both sides, during which time the *Pickemen* stands as idle spectators, seruing onelie as a prop for the *Enemies* shot, and neuer beeing able to offend them, which is a pitifull consideration.

To remead this inconvenient, the *Gentlemen Souldiers* of the trained bandes of the *Artillerie Garding* of London doe practise a shooting with the *Bow* they who are *Pickemen*, without anie disturbance or hinderance of the use of their *picke*, which is thus done:

They haue a *Bow* tyed to the *picke* in that place where they *shoulder* by a little engine or vice, about which it turneth as they list, so that plating the *Buttend* of the *picke* on the ground, against the *right foote*, and holding the *Bow* with their *left arme*, the *picke* sloped, and beeing as it were a rest vnto the *Bow*, they shoote off their volie of *Arrows* (which hang in a Cace at their Girdle behind their backe) with great ease & dexterity, if they be exercised therewith: & thereafter they may *fasten their Bow* to a little pinne, and *reouer their picke*, order, *advance*, *shoulder*, or doe anie other *posture* commanded as well with the *Bow* as without it: When the whole *Battell* shoottes, the *followers* must shoote throw their owne *File* ouer their *Leaders* heade: & they must stand in order at the least. But when the *Enemie* commeth neare hand to *charge*, the first five *rankes*

O 2

must

(a) Plutar.  
in Emilio.  
Suidas in  
quay.

(b) Supra  
Tit. 5.

must close to their close order: and if it bee against horse, while they foote their Pickes to receiue the charge and haue their swords drawne, the last five Rankes may shoote their volies of arrowes, and doe great execution against them, whereas without their Bowes they can doe nothing but stand with their pickes ported.

The wordes of Command for the use of the Bow with the Pickes are those.

*Order your picke.*

*Slope your picke.*

*Vnfasten your Bow.*

*Draw out your Arrow.*

*Noke your Arrow.*

*Shoote whollie together.*

*Recover your picke.*

*Fasten your Bow.*

*Advance your Picke.*

This weapon is of excellent use both against the Enemies foote and his horse: as for the foote it ouerthroweth cleane the Musquetiers, seeing they are vnarmed, & the pickmens face, armes, and legges are also subiect to the wounds of the Arrow, which partes being hurt, maketh them vnable for seruice: but it doth especiallie gall the horse, for a horse being wounded and hauing an hooked Arrowe fixed in his flesh hee will so rampage and runne to and fro, that hee shall disorder the whole Battell: They serue also to shoote fireworks into the Enemies Trench or Fort, and also are steadable for conuoyes, who oft-times are assailed by horse.

But yee will say, that those onelie of the first Rankes can use this Bow, and that it cannot bee handled by them of the middle and Reare of the Battell.

Battell, for they will harme their owne Leaders: To cleare this, I would ask you, How did the <sup>rom</sup> or light armed of the Grecians anie seruice, beeing placed in the Reare of their phalanx, or the Roman Velites in the Reare of their Maniples? for they were fundrie times so ordered as yee may see in (c) *Ælian* and (d) *Leo*: and also beeing placed in the middle of the Battell, or in the <sup>1019</sup> described by (e) *Ælian*, or yet being inserted betweene the Files of the armed men, as in the (f) <sup>1019</sup>, how could the light armed, I say, and chiefelie Archers, doe anie seruice? how could they doe any harme to their Enemies without endamning their own Phalanx, or Maniples? The doubt is alike, and yet the Ancients many times were accustomed to use this forme of Embattelling: There is no question then, but our Pickmen with their Bowes may doe the same execution, as did the <sup>1019</sup> or velites, yea in this respect they haue a great advantage about their Archers, seeing they had to shoote their Arrowes ouer the heades of 16 deepe attour the deapth of their own Bodie: but the last Rankes of your Pickemen hath to shoote ouer the heade of 9. deepe onelie: Alwayes, yee shall consider, that the Enemy must be at a farre distance, when the whole Battell shootes off; otherwayes, when hee comes nigh to charge (as seldome hee will doe, if this weapon bee rightlie used) they must shoote a straight shoote, and then the last Rankes can hardlie let flee their Arrowes, except the first rankes charge at footte, as I said: in which case the first Rankes recouers their picks, fastens their Bows, commeth vp to close order, & chargeth their pickes against the Enemy, the last Rankes standing.

(c) *Ælian*  
Tact. c. 7.  
& 15.

(d) *Leo*.  
Tact. c. 14.  
§ 69.

(e) *Ælian*  
Tact. c. 8.

(f) *Ælian*.  
Tact. c. 30.

standing still at their shooting Posture.

VVherein  
the Bow  
exceller  
the Mus-  
quet.

This Bow is verie steadable in warlike service, and although the use thereof is almost quite extinguished by the furious execution, which the Musquet appeareth to make, yet I will proue it to surpass the Musquet in manie respects: first in surenesse because an archer cannot misse to nock his arrow, and to shoote off, but an Musquetier may fail of his shot, by sundrie accidentes, as by rolling out of the bullet, by an badde matche, an matche not right cocked, by euill powder, or wet powder in his Pan, and suche like: and I haue oftentimes seene an Ranke of Musquetiers hauing presented and giuen fyre, that three or foure of ten hath failed of their shot & ye must know that in service there is no time to prime againe, or to right their matche, for they must fall away with the rest of their Ranke and make place to the next Ranke to giue fire. Again it surpasses the Musquet in readinesse, for an Archer shall shoote fixe arrowes at the least, before a Musquetier haue dismounted his Musquet; Vncocked his matche, Blowne his Pan, primed, shoote his Pan, cast off his loose Powder, cast about his Musquet, charged, drawne out his scourer, shortened his scourer, & done all therest of the Posturs which are requisite for the right using of the Musquet: Also the Musquet, as all fierie wapons, is dangerous to them who are Vnskilfull, for an unexpert man may spoile himselfe and many about him, which inconvenient is not subiect to the Bow. Lastlie, it excelleth the Musquet in execution and pluralitie of vollies, for an whole Battallion of Archers or Pickmen, with their Bowes may shoot off all together, wher-

as one Rank only of Musquetiers can giue fire at once, vnlesse the rest would either shoote at random, or else kill their leaders, so that in an Battallion of 200 men; halfe Picks, halfe Musquetiers, the Pickmen shall shoote 100 arrowes for 10 shot of Musquet: wherfore so manie flights of 100 arrowes following suddenly, and continually after others, vpon the enemies Battallion shall assuredly so terrifie and disorder them, that they shall bee forced rather to saue themselves by flight, than either follow or abide the charge.

Of what esteeme the Bow was in ancient tymes and how serviceable in warres, (g) Vegetius citeth the Bookes of Cato de disciplina militari, and sheweth the example of Claudius and Scipio Africanus, who by this weapon ouercame their enemies, whome otherwite they could not haue matched. His wordes are thole. *Quātum autem utilitatis boni sagittarij in preliis habeant, & Cato in libris de disciplina militari euidenter ostendit; & Claudius pluribus jaculatoribus ante institutis atque perdoctis hostem cui prius impar fuerat superauit: Africanus quidem Scipio cum aduersum Numantinos, qui exercitum populi Romani sub jugum miserāt, esset acie certaturus, aliter superiorem se futurum esse non credidit, nisi in omnibus centuriis lectos sagittarios miscuisset.* The Emperour (h) Leo after hee hath giuen Command to renew the practise of Archerie hee subjuneth *παραλαβὴν (meaning πρῆξις) ἐκ τῆς ἀρχαίας ἀσκήσεως τοῦ βέλτου καὶ ἀμυντικοῦ ἀσπιδίου* for the neglect of Archerie hath brought great skaith and damage to the Roman armie: and it is certaine that by this weapon the (i) Gothes did subdue the Romans & ex-

(g) Veget.  
de re milit.  
lib. 1, c. 15.

(h) Leo.  
Tabl. c. 11.  
Sultimov

(i) Veget.  
de re milit.  
lib. 1, cap.



strat their Empire. By this weapon in late times the *English* did ever overthrow the *French* *cavallery*, & therby obtained many great and famous victories, as those of *Cressi*, *Poitiers*, *agin-court*, and others.

The Souldiers of the militarie yarde at *London* are taught to use a *Musqueton* or *demy Musquet*, with their *Pick*, which hangs about their Neck in a Belt like a *carabine*, beeing two foot in length, and of full *Musquet* bore 12. bullets to a pound, but having a *snawork*, it wil carie blanch as far as a *Musquet* which I haue sene: This *demy Musquet* they charge and discharge with as great facilitie, as if they had nothing to use but their peace: making their *Picks* as it were a rest vnto it: but the use heereof cannot be so well vnderstoode by discourse as by practise, Yet it is certaine that the first or last two *Ranks* only can haue the benefite of this weapon, whereas the whole Battell of *Pickmen* may shoote off their Arrows altogether.

And thus much for the exercising of *Pickmen* with a *Bow* or *halfe Musquet*, wherein I haue insisted longer then I intended, because the matter is worthie of imitation; for it hath oftentimes grieved my minde that the choicest men in the Battell should patiently stand as a marke to the enemies shotte, and thereby fall to the ground before they cometo hands.

OF the exercising of Musquetiers.

This exercise of *Pickmen* with the *Bow* and *halfe Musquet*, I haue not else where seene except in the fornamed places, but the exercising of *Musquetiers* is ordinarie euerie where.

The *Musquetiers* most commonlie are placed in

in the *Flankes* of the Battell, although vpon occasion the Commander sometimes will place them in the *Front*, sometimes in the *Reare*, sometimes make *plattions* of them or *troupes* of reserve.

*Musquetiers* then are to bee exercised and taught to *Giue fyre* three manner of wayes: In the *Front*, in the *Reare*, in the *Flankes*: By the first they *giue fyre* advancing vpon the enemy, or receiuing his charge: by the second *retiring* from the enemy: by the third *marching* by an enemy.

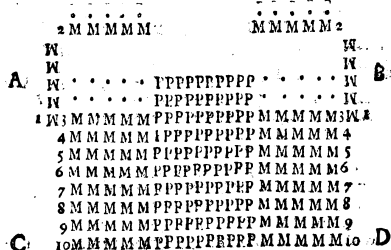
First then they are taught to *Giue fyre* in the *Front* advancing vpon the enemy, after this manner: A Sergeant or some higher Officer if the body be great stands some 7 or 8 pace before the body & commands the first two *Ranks* of both *winges* to *make readie*, and to *come vp* to him: which when they haue done hee commands the first *Rank* to *present* and *giue fyre*, and thereafter to *fall away*, those of the right *Flanke* to the right hand, those of the left *Flanke* to the left hand, that is: to *marche away* one after another in a *File* downe by the *Flankes* of the *Battallion* and joyne in the *Reare* euerie man behinde his owne *File*. When the first *Rank* is fallen away, the second *presents* and *giues fyre*, and *fall away*, as the first: Immediately as the first two *Ranks* doth moue to goe up, and *giue fyre*, the next two *Ranks* must *make ready*, and as soone as the first two *Ranks* are fallen away, they goe vp to their place and *giues fyre*, and *fall away* in the like maner as they did: So all the other *Ranks* by twos are to doe the same, one after another, vntill they haue all *giuen fyre*: when the first two *Ranks* are advanced, the body moues vp to their place,

How to  
Giue fyre  
in the  
Front.

P

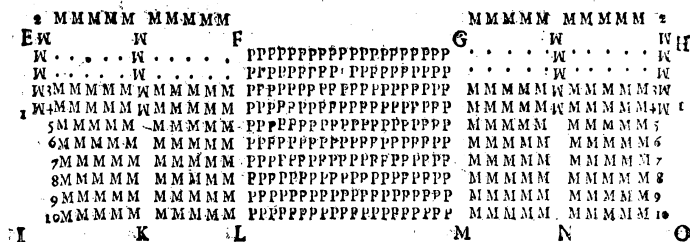
and

and the rest successively till the whole *Ranke* haue *giuen fire*, and made way for the *first Ranke* to re-  
new the *volie*.



Yee see in this Battell A B C D the first two *Ranke*s of each wing are advanced before the body to *giue fire*, and the first *Ranke* of both wings hath already *giuen fire*, and fallen away, That of the *right wing* B D to the *right hand*, that of the *left wing* A C to the *left hand*, and both of them falleth downe to the *Rear*, euerie man behinde his owne *File*: The second *Ranke* of both wings hath presented to *giue fire*, and thereafter fall away as the first did, and so all the rest: But if your *Battallion* consist of any greater number, as of 400 or 600 men, so that ye haue 10 or 15 *Musquetiers* in *Ranke* on each wing, then yee must observe to mak them fall away by *divisions*, that is, they must divide themselves and fall away downe by the *divisions* or *streetes*, which the *Sergeant* causes make to that purpose through the bodie of the *Musquetiers*, those of the *right wing* falling to the *right hand*, those of the *left wing* falling to the *left hand*.

E



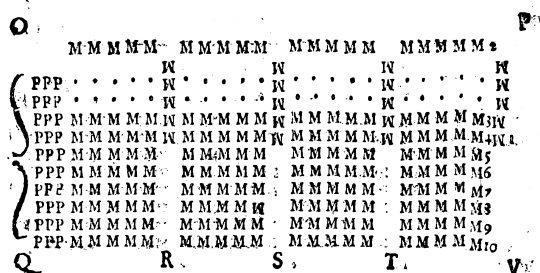
Yee see heere a *Battallion* of 400 men, consisting of halfe *Picks* halfe *Musquetiers*, hauing 10 *Musquetiers* in *Ranke* on each wing: The *right wing* is G H M O, The *left wing* E F I L: The *first Ranke* of both wings hath given fire, & fallen away, That of the *right wing* to the *right hand*, the one halfe without the *right Flanke* H O, the other halfe through the *division* N, That of the *left wing* to the *left hand*, the one halfe without the *left Flanke* E I, the other through the *division* K. Or else ye may mak them fall away (as I haue scene many doe) on each wing to the *right* or *left hand*, making those who fell away to the *right hand* through the *division* N, to fall away to the *left hand* through the *division* G M betwixt the *right wing* of the *Musquetiers* and the body of the *Picks*, and those who fell away to the *left hand* through the *division* K, to fall away to the *right hand* through the *division* F L, betwixt the *left wing* of the *Musquetiers* and the body of the *Picks*, and by this meanes yee shall keep the body of your *shotte* whole and vndisioyned, which many *Commanders* studie to doe.

But if your *Battallion* be greater, as consisting of

P 2

600 or

600 or 800 men, so that yee haue 15 or 20 Musquetiers in Ranke on each VVinge, then of necessitie yee muste make streetes or diuisiones through the body of your Musquetiers to them to fall away *fine & fine*. For good Commanders holds a maxime, that more than fyue Musquetiers (to make readie seruice), ought not to fall away together, and if the front bee long, then to make so many diuisiones as there is fines to fall away, because when the whole Ranke of Musquetiers (if they bee many) fall away together, one after another, they take a long time before they can all fall away, and so hinders the next Ranke to come vp and giue fire, whereas falling away by diuisions, they doe it in an instant, and makes present way for the next Ranke to giue fire, as yee see in the figure following.



O P Q V is the right wing, of a Battell of 800 men, containing 200 Musquetiers, making 20 in Front: yee see then the first Ranke O P hath giuen fire, and diuided it selfe in foure partes, containing euerie one fyue, falling all away to the right hand, whereof the one is falling away by the right Flanke

P V

P V, the next through the diuision T, the third through the diuision S, the fourth through the diuision R: So that the whole twentie Musquetiers fall away in as short time, as *fine* onelie would haue done: whereas if they had fallen away altogether to either hand, they would haue taken foure times as much time, or had fallen away to the right and left, they would haue taken twise so much time as they haue now take in falling away by diuisions, & therefore makes ready way to the following Ranks to come vp & giue fyre against the Enemie: The like ye may vnderstand of the left wing of Musquetiers, where they will all fall to the left hand as these hath done to the right: This forme of falling away, I haue found approued, and haue seene practised by the most iudicious and best experimented Commanders of our dayes: Notwithstanding, I know many Commanders, who not considering this, make all their Musquetiers fall off together, or at the most, to the right and left by diuision, how manie so euer they bee: For there are manie more curious to make vnlawfull gaines by their company, then carefull to performe a duetie belonging to their charge.

I haue seene another maner of falling away, used by the English, which is by Counter-march, thus: when the first Ranke hath giuen fyre, all those of the ranke turneth together to the right hand, and marcheth downe through the distances betweene the Files, while they come to the Reare, and likewise the second Ranke, & all the rest one after another: And it is chiefly used in a Phalanx amphistomus, where the halfe of the Ranks of the Musquetiers giues fyre in the front, and the other halfe in the Reare: when they

P 3

Counter:

*Counter-march* to the *division*, which is made through the *middle* of the *Ranks*: But to performe this, the *Files* must bee at *open order*, and they must bee verie expert *Musquetiers*.

They use another forme of *giuing fyre* in the *Front* without anie *falling away*, thus: when the first *ranke* hath *giuen fyre*, it standeth still, the *Ranke* next it, passeth vp through the same *Ranke*, and *presenth* in due distance before it, and *giueth fyre*: the third *Ranke* passeth through them both, and *giueth fyre* before them, and so the rest of the *ranks* successiuelie, till the *bringers-up* haue *giuen fyre* in the *front*: But I thinke this not so fit for seruice, as to show the varietie of exercise.

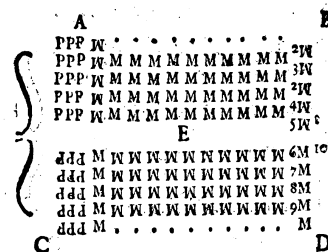
If the Commander please to make more execution against the enemy, hee may command the second *Ranke* to double the first, and to *giue fyre* altogether, so that for five shotte, hee may shoote ten, and for ten twentie.

The use of this exercise is to *advance* and to *charge* the Enemy if yee bee stronger than he, and to *gaine ground* vpon him.

But if ye desire not to *gaine ground*, as beeing more fite to defend, then offend, yee may make the *Ranks* *giue fyre*, where they stand without *advancing*, and *fall away* to the *right*, or to the *right* and *left*, as before.

If ye sustaine a *charge* both in *Front* and *Reare*, then they who hath *giuen fyre*, *falleth away* to either hand, and joynes in the *division* made through the *middle* of the *Battell*, betweene the two *middle ranks*, as in the figure following.

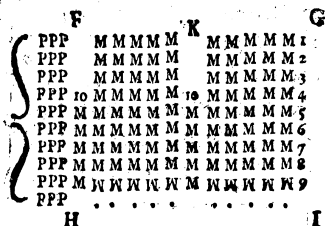
A B C D



A B C D is a *wing* of 100 *Musquetiers*, where of the one halfe of the *ranks* *giues fyre* in the *Front* A B, The other halfe of the *Ranks* *giues fyre* in the *Reare* C D: and the *Ranks* that hath *giuen fyre* both of A B and C D, to wit the first and the tenth, *fall* away to the *right* and *left hand*, and joynes in the *division* E, euerie man toward his owne *front*: the *Ranks* next them *presentes*, *giues fyre*, and *fall* away, as the former, and so all the rest. Or else they may *fall away* by *Counter-march*, as I haue said before: but in so doing, they must bee expert *Musquetiers*, and carie their *Pieces* aright, otherwise they will disturbe the whole *Ranks*: And it is a verie comelie fight to see this *Battell*, when the *pikes* are charged, both to the *Front* & *Reare*, & the *Musquetiers* doing their duetie, that is, *giuing fyre*, and *falling away* by *Counter-march*, gracelullie and with readinesse, as I haue seene the *Souldiers* of the *Artillerie Garding* doe it most exactlie.

The second way of *Giuing fyre* is in *Reteyring* from the Enemy, and then they *giue fyre* in the *Reare*, which is in this manner: The *Captaine* *marshalling* in the *Reare*, (for that is his place in a *retreit* from

from the Enemy (honour beeing alwayes accompanied with danger) commands the *last Ranke* to *make ready*, and then to the *right hand about*, and *give fire*, which they doe, the body still continuing their *marche*, and thereafter *turnes off* to the *right hand*, or (if they be many) to the *right & left* towards both *flanks*, or else through the *divisions* of the body which are made for that end, and *marches up* a good *swift pace* to the *Front*, where euerie man falls in the *Front* of his own *File*: As soone as the *last Rank* is turned to *give fire*, the next *Rank* *makes ready*, and when the *last Ranke* is *fallen off* and *marched away*, it *turnes about*, *giues fire*, *falls off*, and doth all as the former did, and so all the rest of the *Ranks* successiuelie one after another, as in the figure following.



FGHI is a *wing* of an *100 Musquetiers* *Retiring* from the enemy: where yee see the *10 Ranke* in the *Rear* hath *giuen fire*, turned to the *right hand*, *divided* it selfe, and *fallen away* the one half through the *division* H F betwixt the *Musquetiers* and the *Picks*, the other half through the *division* K, and are *marching away* up to the *front*, but

if yee would keepe the bodie of your *Musquetiers* whole, yee may make the *Ranke* which *giues* tyre, *divide* it selfe, and the one half *fall away* to the *right hand*, the other to the *left*, so that the half which *falls away* through the *division* K shall *fall away* by the *Flanke* I G. The *ninth Ranke* hath turned about and *presented*, and after it *giue*th tyre, *divideth* it selfe, and *marcheth away* as the former, and so doeth all the *Ranks* successiuelie, one after another continuing still their *march*, and *giuing tyre* vpon the *Enemy*.

If yee would make more execution vpon the *Enemy*, yee may make the penult *Ranke* double the *last*: as I show before in doubling the *Front*.

The use of *Giuing tyre* *Retiring* is, when the *Enemy* is stronger than you, and followes you in the *Rear*, yee beeing much weaker, and not able to encounter him, yee *march away*, and makes haste to gaine your owne *Quarters* or *Trenche* or *Fort*, from whence you *fortified*, or to ioyne with moe of your owne *arme*, and yet ye *skirmish* with the *Enemy* *giuing tyre* vpon him, and no wayes hindering your owne *marche*.

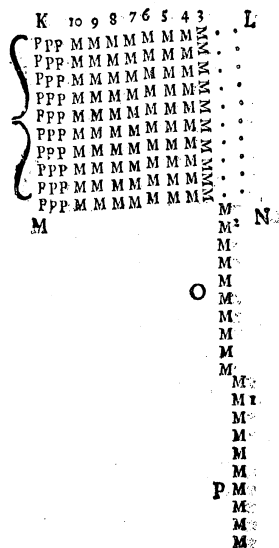
The third way of *Giuing tyre* is, *Marching* by an *Enemy*, which is done vpon the *flanks* after this maner. The outmost *File* of the *Flanke* next the *Enemy* is commanded to *make ready* and to turne to the *right* or *left hand* (according as the *Enemy* appeares vpon the *right* or *left wing*) and to *give fire* altogether: thereafter they *march* not with the bodie, but *stands still*, and keeps their ground, and *charges* their *Musquets* againe: Now whensoever the foresaid *File* turns to *give fire* the

How to  
Giue fire  
on the  
Flanks.

Q

next

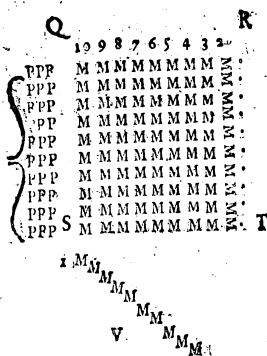
next File vnto it *makes readie*, keeping alwayes along with the Body, till its *bringer-up* bee past a litle beyond the *leader* of the File that *gaue* last fyre, and then the whole File must turne and *giue* fyre, and doe all as the former did. Thereafter the *first File marches up* and joyns with the *second File*: Assoone as the *second File* turnes to *giue* fyre, the *third File* which is now outmost towards the *Enemie*, *makes ready*, *turnes about*, *giues* fyre, and doth all as the other two, and so the rest one after another: and then the *first two Files* marcheth vp to the *third*, and those *three* to the *fourth* after it hath discharged, and so foorth all the rest till the whole *wing of shotte* be gathered together, and then they all *marche vp*, and joyne in equall *front* with the *Picks*: as yee see in the figure following.



KL M N is a *wing* of 100 Musquetiers *marching* by an *Enemie* who shoves himselfe on the *right flanke* of the *Battallion* L N: Your *first file* P. towards him, hath *giuen* fyre vpon him, and hath *charged* their *Musquets* againe in the place they stood: The *next File*. O. hath also *giuen* fyre vpon him, and are *charging* againe in the same ground also, the *third File* hath turned to the *right hand*, and so hath *presented* to *giue* fyre: after which, yee must imagine the *first file*. P. to *march* vp and joyne with the *second File*. O. and both of them to *marche* vp to the *third File*, and so foorth till the whole *wing* gather and joyne together againe after they haue *giuen* fyre.

The like yee may vnderstand if the *Enemie* appeare vpon your *left wing* for then the *left hand File* is to turne about to the *left*, and to *giue* fyre, vpon the *Enemie*, and to doe all as the *right hand File* hath done: and so the rest of the *Files* in the *left wing* doe after the like manner, as those of the *right*, observing only the *diversitie* of the hand: Or if the *Enemie* bee on both your *Flankes*, yee may make both your *Flankes* doe as one hath done.

Although this forme of *Gathering together* of the *Files* which I haue shewne, bee most usuall, yet there is many good *Commanders* who dislike it, and thinkes it better that the *File* which hath *giuen* fire doe not stand longer than they be free of the body, but *turning* a litle to the *left*, *marche* immediatly vp to the other *side* betweene the *Picks*, and the *wing* of *Musquetiers*, where there is a *distance* left for that effect.



Heere yee see the first File. V. hauing given fire and beeing free of the body is marching up the division Q. S. to joyne with the rest on the left side betweene the Pikes and the Musquetiers: the second File doth the like, and so all the rest one after another: but in this the whole wing in marching is to edge a litle to the right, that it may keepe the division cleare and free to receiue the Files as they give fyre: This they thinke doth not so much dismember the body as the other, nor yet oppose the Files so much to the Enemies shotte for when three Files stands one before another they make a great proppe to the Enemy: But I leaue euerie one to their owne opinion, for Martiall Commanders differs amongst themselves, in points of exercise, euerie one following the custome of his owne Countrey.

If yee would Give more fyre vpon the Enemy yee

yee may make the second File to double the first, and both to give fyre together, and so, through the rest of the files, as I shew before in giving fyre by doubling of Ranks in the front or the Rcare.

The use of Giving fyre in the Flankes, is when the Enemy appeareth on either of your Flankes to charge you, and ye not able to sustaine his charge, yee marche away by him in good order, and gives fyre vpon him: and if hee would continue his march with youres thinking to hasten and cut off your passage, or come betwixt you and your retreat, yee may make as much haste as he, and yet sustaine skirmish with him.

## A Collection of the VVords of Command which are most ne- cessarie in exercise and seruice.

Tit. 12.

IN this treatise I haue set downe sundrie Mo-  
tions with their wordes of Command, more to  
show the varietie of exercise than to approue  
them as steadable in Service: Therefore I haue  
made heere a collection of the wordes of Command,  
which are most necessarie in the exercise of Mo-  
tions, and usefull in Service. Our Scotts words,  
I haue set downe in the right hand Columne,  
the English in the left: But the wordes of Com-  
mand for the Postures of the Pike and the Mus-  
quetiers.

(a) *Supra* quet I shew you (a) before: Your Company then being orderlie drawne vp and standing at a due distance, both in Rankes and Files which is open order: The Captaine or other Officer, after he hath commanded Silence, hee begins.

Stand right in your Rankes and your Files.

To the right hand.

To the left hand.

To the right and left hand by division.

To the right hand about.

To the left hand about.

Half files to the right or left hand about.

As yee were.

Rankes to the right hand double.

Rankes to the left hand double.

Rankes as yee were.

Bringers vp double your Front to the right hand. Bringers vp double your Front to the left hand. As yee were.

Middlemen or Half Files to the right hand double your Front.

Middlemen or Half Files to the left hand double your Front.

Half Files as yee were.

Stand right in your Rankes and your Stringes.

Right about.

Left about.

Right and left about

Right round about.

Left round about.

Sixt Ranke right or left round about.

To your first order.

Double your Rankes to the right hand.

Double your Rankes to the left hand.

Rankes to your first order.

Tenth ranke to the right hand advance to the front. Tenth ranke to the left hand advance to the front. To your first order.

Sixt Ranke to the right hand advance to the front. Sixt Ranke to the left hand advance to the front. To your first order.

Halfe

Halfe Files to the right double your Front enteare.

Halfe Files to the left double your Front enteare

Halfe Files double your Front to the right and left by division.

Halfe Files as yee were.

Files to the right hand double.

Files to the left hand double.

Files as yee were.

Rankes file to the right hand.

Rankes file to the left hand.

Rankes file to the right and left by division.

Files as yee were.

Files as yee were.

Files Countermarch to the right hand.

Files Countermarch to the left hand.

Rankes Countermarch to the right Flanke.

Rankes Countermarch to the left Flanke.

Files close to the right hand.

Files close to the left hand.

Files close.

To your order or close order.

Double your Stringes to the right hand.

Double your Stringes to the left hand.

Stringes to your first order.

Stringes to the right hand Countermarch.

Stringes to the left hand Countermarch.

Rankes to the right hand Countermarch.

Rankes to the left hand Countermarch.

Close your Stringes to the right hand.

Close your Stringes to the left hand.

Close your Stringes.

To your second or third distance. Close.

Q4



*The most usefull words of Command.*

Close your Rankes to your order or close order.

Rankes close to your second or third distance.

Files Open to the right hand.

Files Open to the left hand.

Files Open

To your  
open or  
der, or  
any or-  
der else.

Open your Stringes to the  
right hand,  
Open your Stringes to the  
left hand.  
Open your Stringes.

To your  
first dis-  
tance or  
any dis-  
tance  
else.

Rankes Open to your open order or  
any order else.

Open your Rankes to your first dis-  
tance or any distance else.

Wheele your Battell to the right  
hand.

Wheele your Battell to the left hand.

Wheele your Battell to the right  
hand about.

Wheele your Battell to the left  
hand about.

The great turne to the right  
about.

The great turne to the left about.

The great turne to the right round  
about.

The great turne to the left round  
about.

*The wordes of Command for the  
exercise of Musquetiers.*

*The wordes for Giuing fire in the Front.*

First Ranke make ready,

Advance before the Front sixe paces,

Present and giue fire,

Fall away orderly to the right or to the left hand,  
or to both by diuision.

Next Ranke doe the like,

All the rest follow.

*For Giuing Fire in the Reare.*

Last Ranke make ready,

To the right about present, and giue fire.

*Fall*

*The most usefull wordes of Command.*

Fall off to the right or left hand, or to both by  
diuision.

March up to the Front,

Next last Ranke doe the like.

All the rest follow.

*For Giuing fire in the Flanks.*

Right or left hand File, make ready.

To the right or left hand present & giue fire.

Keepe your ground and charge your Musquets  
again.

Next File to the right or left hand present and  
giue fire.

Keepe your ground and charge your Musquets  
again.

The rest of the Files doe the like.

First File marche up and ioine with the second:

Marche up both and ioine with the third and so  
forth.

AND this much for exercising of foote Com-  
panies, in their Postures and Motions. I in-  
tended to haue spoken of the Duetie and Charge  
of euerie Officer of foot; and of the Embattelling  
and Encamping of Foot-men, if I had not bene  
pressed with thortnesse of time, and diuerted by  
Iundrie distractiones, besides the leeuving of my  
Company, and chiefly by a little prapARATION  
which I haue made for the plantation of New  
Scotland, in America: A Worke so Noble, so  
Glorious, so conducible to the honour, and  
commodity of this Kingdome, that the like hi-  
therto, was neuer intended. The Author wher-  
of, although his rare Vertues, bee not now ac-  
cording to their hight acknowledged by vs, yet  
ensuing

R

ensueing times will approue them, and proue him to haue beene the Glorie of his Age.

If in this treatise I haue committed any errour, I submit my selfe to the iudgement and censure of the Learned and experimented Souldier, whose amendation I craue: As for the enuious Thrafonicall Critick, who will still be carping that which hee vnderstands not, I disdain him, I defy him. If in this I bring any profite to my Countrie-men, it shall encourage mee with the first opportunity God-willing, to proceed and set forth somewhat of the exercise of *Cavalerie* and also of the forme of erecting any regular, or irregular figure of *Fortification*, with the manner of assailing, and defending a *fort*, and that more, to allure others of better vnderstanding, to employ their pen, and publish more perfectly in this subject, then that I esteeme any thing of mine worthy of light: avouching only this, that in a true affection to my KING and my Country, and in a firme resolution to spend the last drop of my Blood in their seruice, I shall bee Inferiour to no Man liuing.

FINIS.

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