<page>017v</page>

<image>http://gallica.bnf.fr/ark:/12148/btv1b10500001g/f40.image</image>

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<ab>The large cannon, which is for great batteries<comment>c\_017v\_01</comment>, usually weighs fifty-five or lx <ms>quintals</ms>. At the breech it carries the <ms>thickness of <del><fr>b</fr></del> two balls &amp;<del><fr>l</fr></del> three parts of one ball <add>the one</add></ms>. At the front, it carries <del><fr>ba</fr></del> the <ms>thickness of one ball &amp; <del>two</del> three parts the two</ms>. It is thirteen or fourteen <ms><fr>pans</fr></ms>long. But they are very troublesome to drive. The head-on battery, to accomplish its task quickly <del>is</del> &amp; batter with great force, is at <del><fr>d</fr></del> one hundred fifty <ms>paces</ms> &amp; at two hundred. <del>And</del> It is true that one batters well from three or 4 hundred <ms>paces</ms>, but it is necessary to give it more <m>powder</m>. Its common load is <del><fr>p</fr></del> of xx <ms>lb</ms> of <m>powder</m>, its ball of 40 <ms>lb</ms>. One needs xxv <al>horses</al> to drag it. When one fires it farther than its usual range, one puts in a <ms>half <tl>ladle</tl></ms> of <m>canon powder</m> more. A cannon can be fired 4xx<comment>c\_017v\_02</comment> or a hundred shots <ms>per <tmp>day</tmp></ms>, but one needs to refresh it every time after one has fired <del>te</del> nine or ten shots, if the battery is steadily used. For if there is a break, it is not necessary to refresh it as often. For two <ms>quintals</ms> of <m>copper</m>, or two <ms>quintals &amp; a half</ms> if it is for large cannons, one puts one <ms>quintal</ms> of <m>metal</m> <add><figure>#</figure></add>. The <m>metal</m> is composed at the beginning of eight <ms>lb</ms> of <m>tin</m> for one <ms>quintal</ms> of <m><fr>rosette</fr></m>, while for big bells one only puts six <ms>lb</ms> of <m>fine tin</m> for one <ms>quintal</ms> of <m><fr>rosette</fr></m>, to give it a bigger voice. For the more <m>tin</m> there is, the clearer the <sn>sound</sn> is. <del>Its</del> For gun founding, if one provides the material &amp; charcoal as one usually does, for <pro>masters</pro> do not have the means, one gives x to xii <ms><cn>lb</cn> per quintal</ms>. And <del>for the mat</del> when the <pro>master</pro> provides everything, one gives him 40 <ms><cn>lb</cn> per quintal</ms> for large pieces <del>&amp;</del> such as cannons, <add>according to the <pro><pn>King</pn></pro>'s ordinance</add>, and l <ms><cn>lb</cn></ms> for small pieces. <del><fr>T</fr></del> For the more material there is, the more profit the <pro>master</pro> has of it. One founds another kind of cannon-perriers of xxx <ms>quintals</ms> which are longer than the others, and easily eight <ms><fr>pans</fr></ms> long, &amp; they are for battering defenses &amp; casemates <del><fr>s</fr></del>, placing them via trenches, <tmp>at night</tmp>, on the edge of the ditch.</ab>

<figure>◯</figure>

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On each side of the breech's opening they give the <ms>thickness of half a ball</ms>. And then they also add on each side the <ms>third part of a ball</ms>.</ab>

<ab><margin>left-middle</margin><del><fr>Ain</fr></del> one gives it two <tl><ms>ladles</ms></tl> of <m>cannon powder</m> for its charge, &amp; <ms>one &amp; a half of</ms> <m>arquebus powder</m>, &amp; the same for the others.</ab>

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The composition of <pl>French</pl> cannons is of <ms>one quintal of <m>metal</m> for two of <m><fr>rosette</fr></m></ms>. But<comment>c\_017v\_03</comment> those of <pl>Toulouse</pl> &amp; <pn>Poncet</pn> puts iii of <m><fr>rosette</fr></m> &amp; one of <m>metal</m>.</ab>

<ab><margin>left-middle</margin>The <m><fr>rosette</fr></m> for re-melting is more profitable than cauldrons, which turn entirely into filth.</ab>

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Old pieces are composed of almost <del><fr>de dem</fr></del> <ms>as much of one as of the other</ms>, namely one <ms>part</ms> of <m><fr>rosette</fr></m> &amp; one of <m>metal</m>. One recognises this composition with a <tl>burin</tl>. For its substance is found to be sour &amp; the particle taken from the <tl>burin</tl> is found to be mixed with yellow &amp; white.</ab>

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