<page>023r</page>

<image>http://gallica.bnf.fr/ark:/12148/btv1b10500001g/f51.image</image>

<div>

<id>p023r\_1</id>

<ab>Such a petard is made which weighs three <ms>quintals</ms>, carries a cannonball flat on the side on which it must exit &amp; round on the inside of the cannon, as if it were a cannonball cut in half. It is two <ms><fr>pans</fr></ms> long. It is charged with xxv <ms>lb</ms> of <m>powder</m> for <del>at</del> it needs to be full up to the mouth &amp; it needs to break. It does not have a different thickness at the breech than at the mouth &amp; is all of one piece. Its substance needs to be better than that of pieces, &amp; for 4 <ms>quintals</ms> of <m>fine copper</m> there ought to be only one <ms>quintal</ms> of <m>metal</m> in order that it holds the blast, &amp;, breaking with more force, has a greater effect. It is for putting against a door with a large <m>iron</m> cross in front of the ball, and once loaded, it needs to be covered with a well-sewn <m>rough canvas</m> which should be smeared <del><fr>c</fr></del> all over with <m>turpentine</m>. It needs to have four handles, made while it is founded, for thus it is easier to place. The <m>iron</m> cross is joined to the mouth with the <m>canvas</m> with which it is covered. <del>To place it, it</del> The handles must be kept at the edge of its muzzle, as you see. To place it, one needs three or four <tl><m>iron</m> pegs</tl> one <ms><fr>pan</fr></ms> long <add>&amp; as thick as a <ms><bp>finger</bp></ms></add> which should have their point like a <del><tl>wimble</tl></del> <add><tl>gimlet</tl>, &amp; the entire leg as a <tl>screw</tl>, like an <tl>auger</tl></add>, &amp; a ring on the other end to turn them with a <tl>short stick</tl> which has play within the ring. And the <tl>pegs</tl> are placed in the door <del>but</del> not straight <del>but</del> for they would not have any strength, but at angle as if <add>you</add> wanted to fix them towards the middle of the petard, and to do this, the hole of the handles needs to be quite large. In this way, the firing petard pushes the <tl>pegs</tl> along &amp; across into the door &amp; makes more of a breach. Once it is placed, you need to have a <m>buckram</m> sausage @<comment>c\_023r\_01</comment> made in this manner: take eight or nine <ms><fr>canes</fr></ms> of <m>buckram strip</m> or more if the ditch is larger, and let the strip be four or five <ms><bp>fingers</bp></ms> wide. Have it well sewn in such a way that it is like a gut through which <del><fr>l</fr></del> a <tl>stick</tl> as thick as a <ms><bp>finger</bp></ms> can pass. Fill it completely with good</ab>

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This one is for putting below an undermined tower with the muzzle pointing up. One makes two large <m>iron</m> rings &amp; with a <tl>bar</tl> or two, four men carry it. They are also used for putting in breaches but here one needs only half a charge, namely x <ms>lb</ms>, &amp; to fill it with <m>flint stones</m> &amp; <m>cart flint stones</m></ab>.

<figure>

<id>fig\_p023r\_1</id>

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<link><https://drive.google.com/open?id=0B9-oNrvWdlO5RzRNM284T3Q0eTQ></link>

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One needs to cover it entirely with <m>waxed canvas</m> &amp; rubbed with <m>turpentine</m> &amp; <m>combustible things</m>. This cover is made in order to secure the ball, such that it does not fall and in order that when the fire takes to the cover, the <m>primer powder</m> does not fail. Precisely at the fuse, you will need to put in a good quantity of <m>primer powder</m>. Some put a cross of <m>iron</m> on the ball which protrudes from the mouth of the petard by two <fr><ms>pans</ms></fr>. Others only put the ball.</ab>

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