<page>021r</page>

<image>http://gallica.bnf.fr/ark:/12148/btv1b10500001g/f47.image</image>

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<id>p021r\_1</id>

<head><pro>Gunner</pro></head>

<ab>As for small cannons which are not loaded with a <tl>linstock</tl>, one charges them with <m>powder</m> up to the <fr>escusson</fr>, which is placed on the piece with due proportion.</ab>

<ab>To point a cannon, that is to say to take its aim, one needs to take the sight, that is to say aim, from the sides before the top, that is to say above the cannon. For by aiming along the top, you will be better able to find the line tending to your target, but you would not find out if the cannon tends more to one side than the other. Therefore take your sight on one side, then on the other &amp; adjust your piece to the point at which you aim. Then take your sight from the top of the breech, which will soon be done. Next, lower your piece a little at your discretion if you are within true range, because the force of the <m>powder</m> usually makes it rise. But if you were farther away than your piece shoots at point blank, you would need to consider that the weight of the ball would make it lower.</ab></div>

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<id>p021r\_2</id>

<head>For shooting from a cannon at night</head>

<ab>Some keep their pieces loaded <del>and</del> from the day. Then, in order that the <pro>gunner</pro> can shoot into the breach where the assailed are perhaps making repairs, the besiegers raise a false alarm in order that the besieged throw <m>torches</m> &amp; <m>artificial fire</m> into the moats or around the breach, at which the <pro>gunner</pro> aims. Sometimes, by using the reflection of <tl>mirrors</tl> or <tl>flasks</tl> full of <m>water</m>, the assailants light up the breach. The method you know, with a <tl>quadrant</tl> &amp; <tl><m>plumb</m> line</tl>, is very good. Others nail two or three rows of boards with <m>strong iron pegs</m> on the <m>wooden</m> platform made for mounting the cannon, and leave empty notches into which the wheels of the cannon can just fit. And by such means you will always <del><fr>te</fr></del> place it at a similar <del><fr>q</fr></del> point, that it will not incline more to the right than to the left. And in order that it be neither too high nor too low, when you shoot during the day, you place a <tl>ruler</tl> fixed well in the ground, which comes just to touch the the bottom of the edge of the cannon after it has been pointed &amp; adjusted for shooting.</ab>

<ab><margin>left-middle</margin>If the platform<comment>c\_021r\_01</comment>, the wheels or the wedges<comment>c\_021r\_01</comment> break or are disturbed, this invention is of no profit.</ab>

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