



A.D. 1852 N° 12,781.

S P E C I F I C A T I O N

OF

JOSEPH ROCK COOPER.

FIRE-ARMS.

LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,
PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY:

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NEAR FLEET STREET.

Price 10½*l.*

1854.

45.



A.D 1849 N° 12,781.

Fire-arms.

COOPER'S SPECIFICATION.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, JOSEPH ROCK COOPER, of Birmingham, in the County of Warwick, Gun and Pistol Maker, send greeting.

WHEREAS Her present most Excellent Majesty Queen Victoria, by
5 Her Royal Letters Patent under the Great Seal of the United Kingdom of Great Britain and Ireland, bearing date at Westminster, the Twentieth day of September, One thousand eight hundred and forty-nine, in the thirteenth year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the said Joseph Rock Cooper,
10 my eñors, adñiors, and assigns, Her especial license, full power, sole privilege and authority, that I, the said Joseph Rock Cooper, my eñors, adñiors, and assigns, or such others as I, the said Joseph Rock Cooper, my eñors, adñiors, or assigns, should at any time agree with, and no others, from time to time and at all times during the term
15 of years therein expressed, should and lawfully might make, use, exercise, and vend, within England, Wales, and the town of Berwick-upon-Tweed, my Invention of "IMPROVEMENTS IN FIRE-ARMS," in which

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Cooper's Improvements in Fire-arms.

said Letters Patent is contained a proviso that I, the said Joseph Rock Cooper, shall cause a particular description of the nature of my said Invention, and in what manner the same is to be performed, by an instrument in writing under my hand and seal, to be inrolled in Her Majesty's High Court of Chancery within six calendar months 5 next and immediately after the date of the said in part recited Letters Patent, as in and by the same, reference being thereunto had, will more fully and at large appear.

NOW KNOW YE, that in compliance with the said proviso, I, the said Joseph Rocke Cooper, do hereby declare that the nature of my 10 said Invention, and the manner in which the same is to be performed, are fully described and ascertained in and by the following statement thereof, reference being had to the Drawings hereunto, and to the figures and letters marked thereon, that is to say :

DESCRIPTION OF THE DRAWINGS.

15

Figure 1, shows a side view, Figure 2, a front or end view, and Figure 3, an under side view of a pistol having part of my improvements applied thereto. *a*, is the barrel; *b*, the stock; *c*, a spring, which acts as a hammer to discharge a cap when on the nipple, and at other times is the means of keeping the cover *d*, over the nipple; 20 this cover *d*, is hollow, and closely covers the cap on the nipple. The cover *d* moves on an axis *e*, and in fact forms one end of a bent lever, the ring *d*¹ for the finger forming the other end of this lever. When the pistol is not to be discharged the nipple and cap thereon are covered by the cover *d*, and the same is kept pressed on by the spring *c*. 25 When the fire-arm is to be discharged the simple act of drawing back the ring, or, it might be, other formed end of the lever *d*, *d*¹, (as shewn by the red lines,) will cause the cover *d*, to be moved beyond the end of the spring *c*, which will then re-act and strike against the cap; and in order to get the spring hammer *c* out of the way when another cap 30 is to be put on the nipple, the barrel is to be turned partly round; the cover *d*, being then placed over the nipple, the barrel is to be again turned into position, which will bring the end of the spring *c*, so that it will press on the cover *d*. This arrangement, although only shewn

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applied to a pistol, may, with slight modifications of the parts, be applied to guns and fowling pieces. Figure 4, shows an under side view, Figures 5, and 6, show a side and end view of a pistol having a similar improvement to that above described applied thereto, together
 5 with other improvements. In this arrangement, in place of having the spring *c* fixed to the barrel, as in the former pistol, the spring *c* forms the one end of the ramrod, and there is a guard *e*¹, used to the ring *d*¹, (or other formed end of the lever *d, d*¹), such guard preventing the ring being moved back, unless the guard *e*¹, be first moved so as to
 10 unlock the guard. Figure 7, shows two views of the ramrod separately, by which it will be seen that the one end thereof acts as a spring hammer, and also the means of keeping the cover *d* close. The ramrod passes through the sling *f*, so that when it is drawn out (to admit of the cover *d* being placed in position over the nipple) it can
 15 be used for ramming down, but the sling prevents it being separated from the fire-arm. The ramrod passes through the socket *g*, and when pressed home, as shewn at Figures 4, and 5, it rests on and retains the cover *d* secure, till that cover is moved away, as shewn by the red lines in Figure 5; then the end of the spring *c*, acts as a spring hammer, and
 20 strikes the cap on the nipple, and the cover *d* can only be moved away by pressing the lower end of the guard out of the ring, which will move the notch or catch *e*², so as to allow of the lever *d, d*¹, moving on its axis, as will be readily traced by examining the Drawing, more particularly the several detached views of these parts shewn at Figure 8.
 25 This apparatus, like that first described, may be applied to fowling pieces and other fire-arms. I have not, however, thought it necessary to show the same so applied, as a workman will readily apply the several improvements thereto.

My Invention is also applicable to revolving pistols; Figure 9,
 30 shows a plan, and Figure 10, a side view of a revolving pistol having my Invention applied thereto. Figure 11, shows a section, Figure 12, shows a side and two end views of the barrels; Figure 13, shews another section; Figure 14, is part of an end view, Figure 15, shews separate views of the hammer; and Figure 16, shows separate views of
 35 the trigger and working parts; in each of which Figures the same letters

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indicate similar parts. c , is the hammer formed on the spring c^1 , which is fastened to the stock at c^2 ; and the hammer c , is lifted by the pendant finger a , which is connected by a pin joint to the under side of the hammer c , and is pressed on by the spring a^1 , as shown, so that it has at all times a tendency to stand off from the under side of the 5 hammer, so that the end b^1 , of the lever b , constituting the trigger may come under the finger a , and lift the hammer c . The lever or trigger b , turns on an axis b^2 , and is constantly pressed on by a spring b^3 . The barrels are caused to revolve by means of the fingers d, d , attached by pin joints to the lever b , and these fingers act alternately on the series 10 of inclined planes e, e , at the butt end of the series of barrels, as shown. e^1, e^2 , is the guard, similar to what has before been described. When this pistol is discharged the simple repetition of pulling the trigger will cause the series of barrels to be turned, and the hammer to be lifted and let go. When it is desired to revolve the series of barrels without 15 lifting the hammer, then, by sliding a slide f , a projection f^1 , therefrom will move the finger a out of the way of the end b^1 of the lever b , so that the series of barrels may be revolved without acting on the hammer.

Having thus described the nature of my Invention, and the means of 20 performing the same, I would remark that I do not confine myself to the exact forms or details of the parts, so long as the peculiar character of any part of my improvements be retained. But what I claim is, the so constructing triggers and spring hammers that the act of pulling a trigger shall remove the hammer from the cap on the nipple, and then 25 allow the hammer to strike. I also claim the making part of the ramrod into a spring hammer. I also claim the use of a guard e^1, e^2 . I also claim the so arranging a trigger that it shall cover or guard the cap. And I also claim the mode of turning the barrels of revolving fire-arms by means of fingers d , acting on inclines as explained. 30

In witness whereof, I, the said Joseph Rock Cooper, have hereunto set my hand and seal, this Nineteenth day of March, in the year of our Lord One thousand eight hundred and fifty.

JOSEPH ROCK (L.S.) COOPER.

Cooper's Improvements in Fire-arms.

AND BE IT REMEMBERED, that on the Nineteenth day of March, in the year of our Lord 1850, the aforesaid Joseph Rock Cooper came before our said Lady the Queen, in Her Chancery, and acknowledged the Specification aforesaid, and all and everything therein contained and
5 specified, in form above written. And also the Specification aforesaid was stamped according to the tenor of the Statute made for that purpose.

JEFFERSON.

Enrolled the Twentieth day of March, in the year of our Lord
One thousand eight hundred and fifty.

LONDON :

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1854.

document.

AND BE IT REMEMBERED, that on the Nineteenth day of March, in the year of our Lord 1850, the aforesaid Joseph Hook Cooper came before our said Lady the Queen in Her Chancery, and acknowledged the Specification aforesaid, and all and everything therein contained and specified, in form above written. And also the Specification aforesaid was stamped according to the tenor of the Statute made for that purpose.

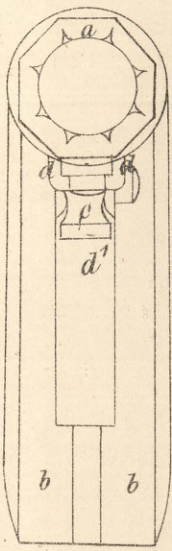
Enrolled the Twentieth day of March, in the year of our Lord One thousand eight hundred and fifty.

LONDON:

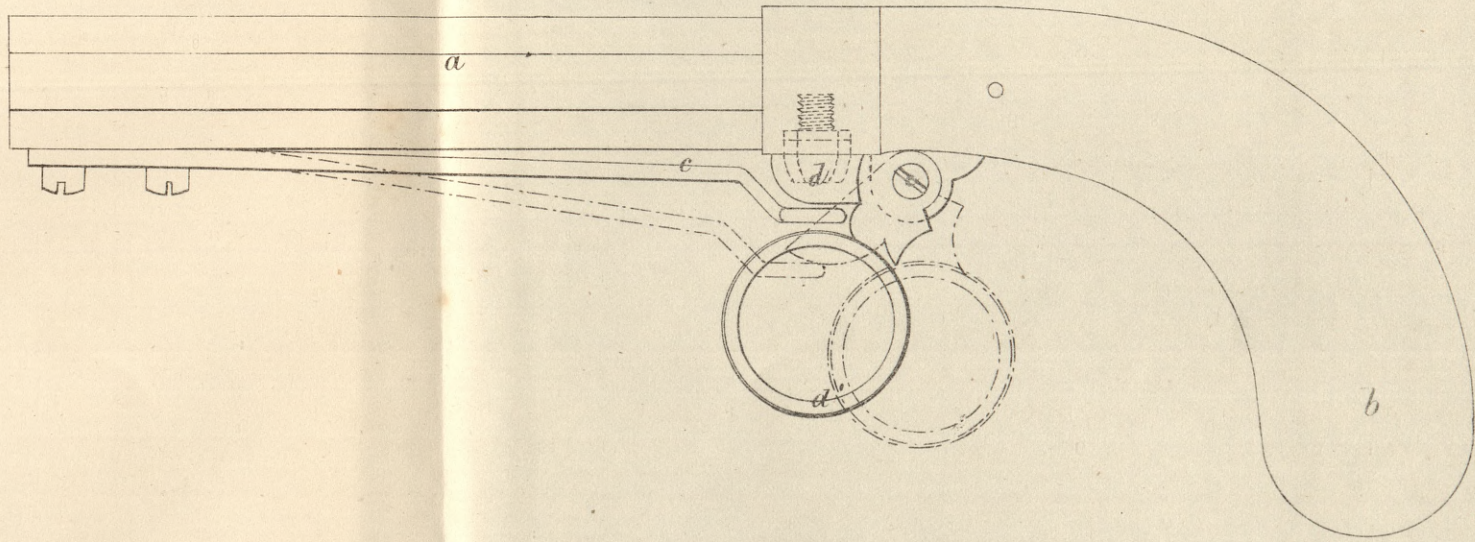
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A.D. 1849, SEPT. 20 N^o 12781
COOPERS SPECIFICATION

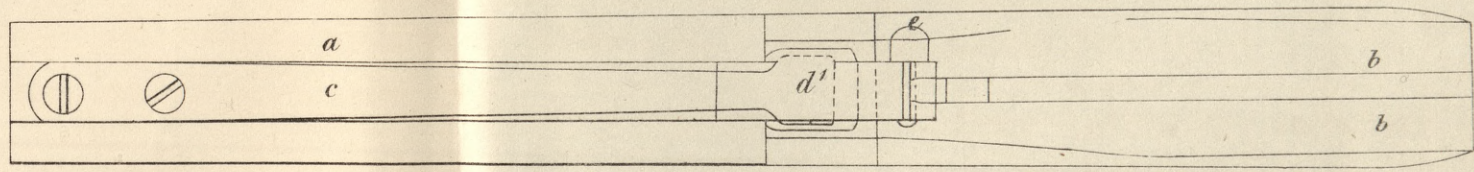
F I G. 2.



F I G. 1.



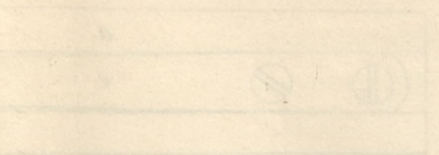
F I G. 3.



The enrolled drawing is colored

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The original drawing is on the reverse side of the page.

Library of the University of Chicago
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COOPERS' SPECIFICATION.

FIG. 6.

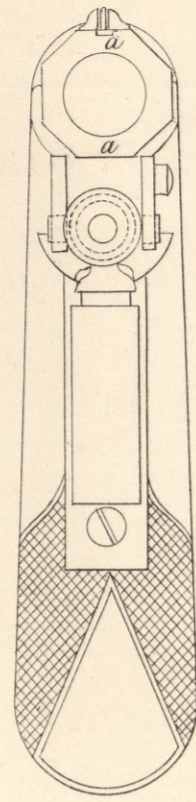


FIG. 5.

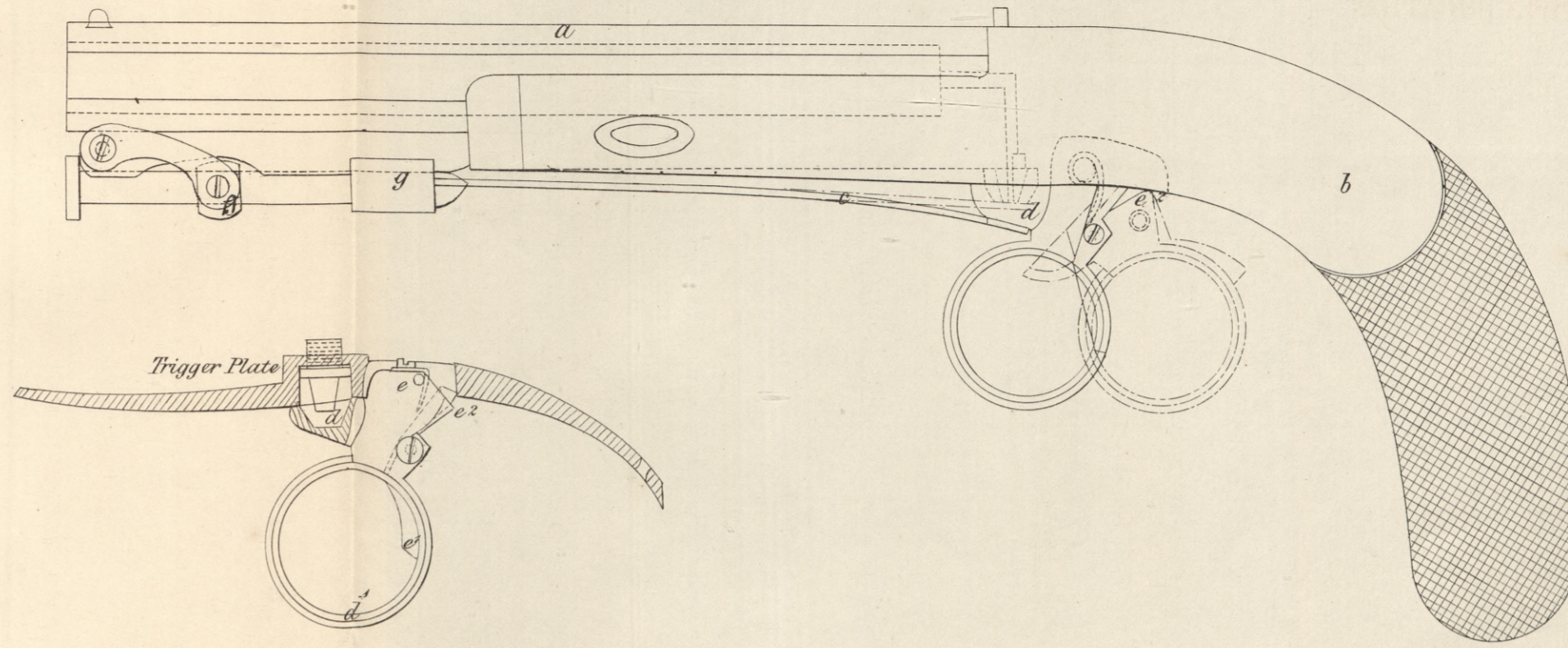


FIG. 8.

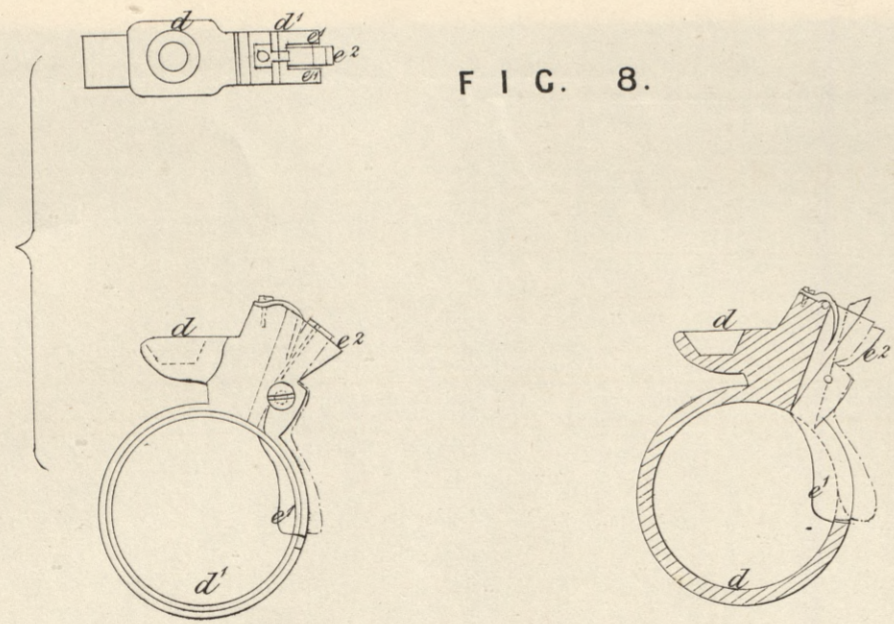


FIG. 4.

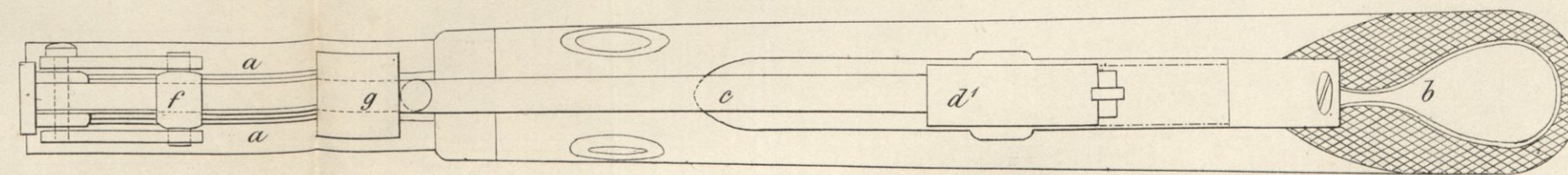
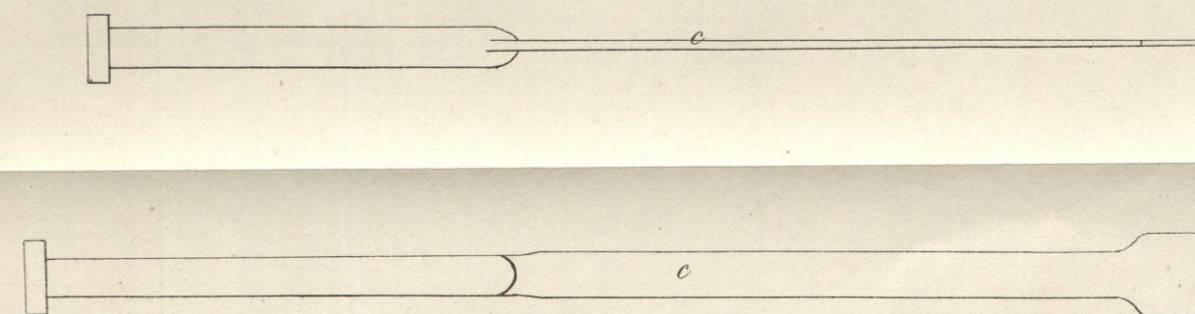


FIG. 7.



The Enrolled Drawing is colored.

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COOPER'S SPECIFICATION.



FIG. 6

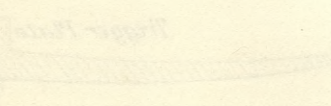
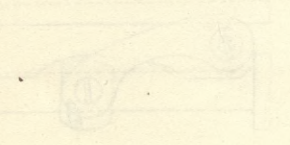


FIG. 5



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COOPERS' SPECIFICATION.

(3 SHEETS.)

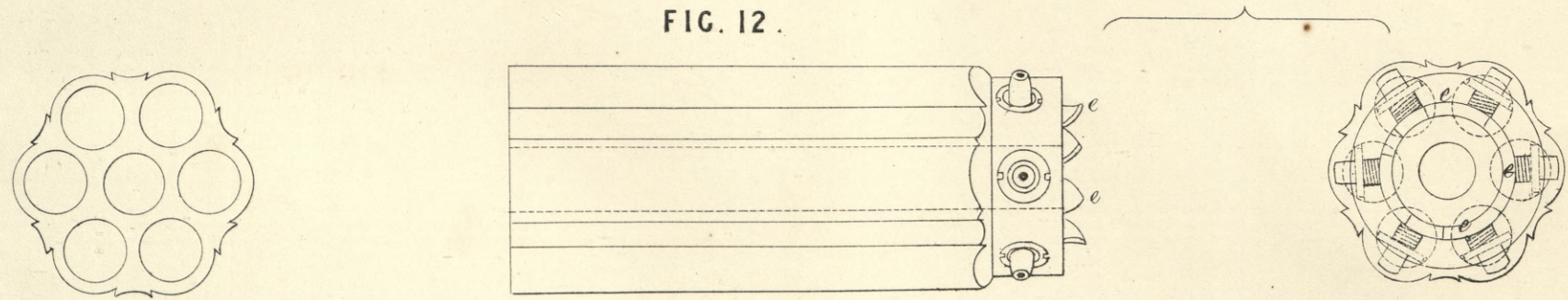


FIG. 12.

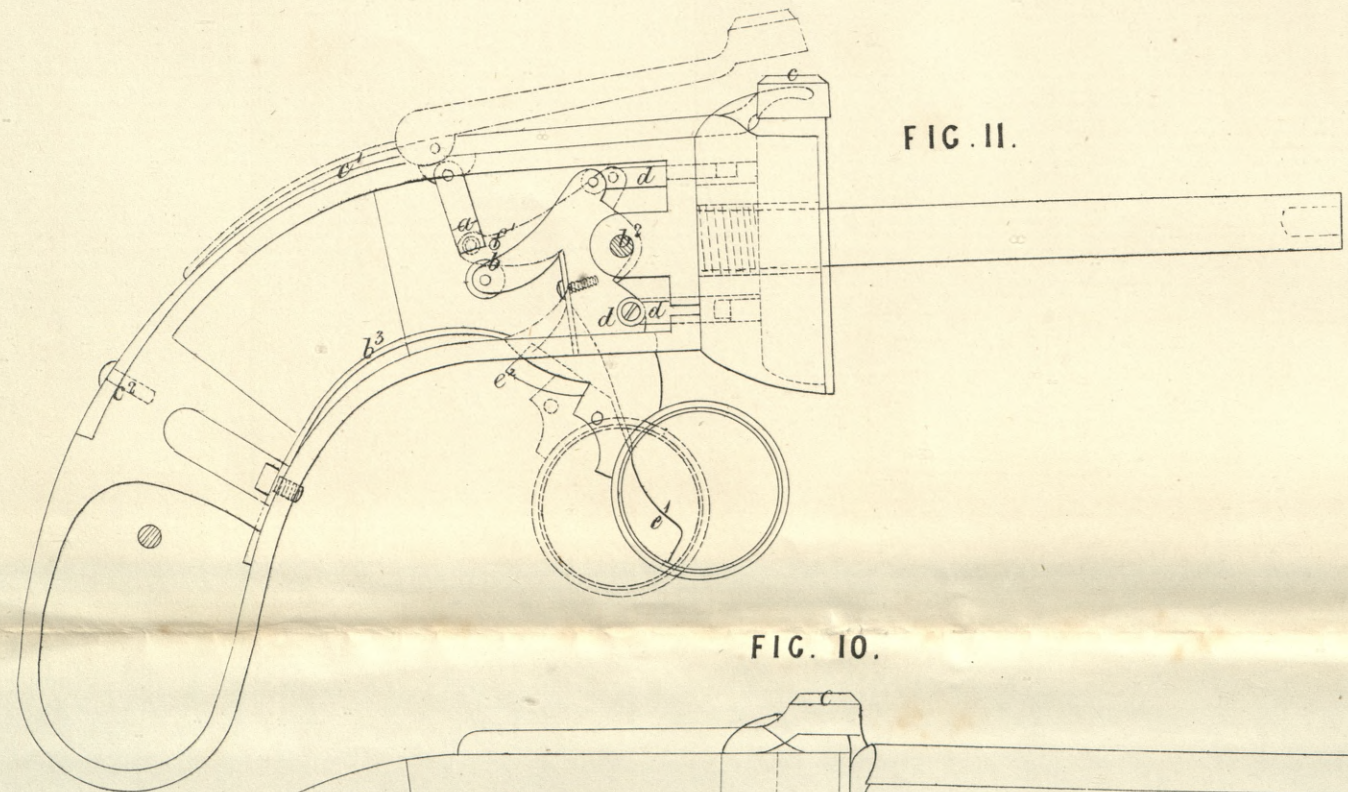


FIG. 11.

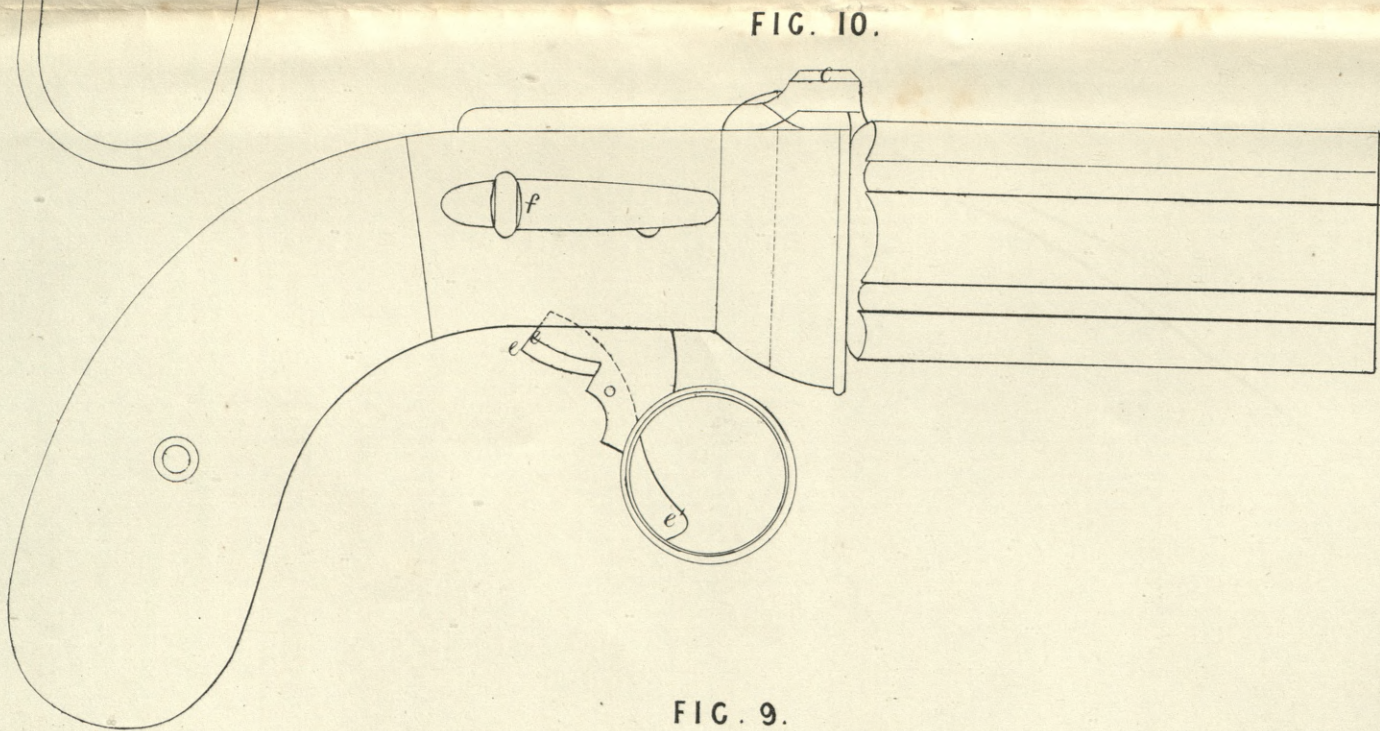


FIG. 10.

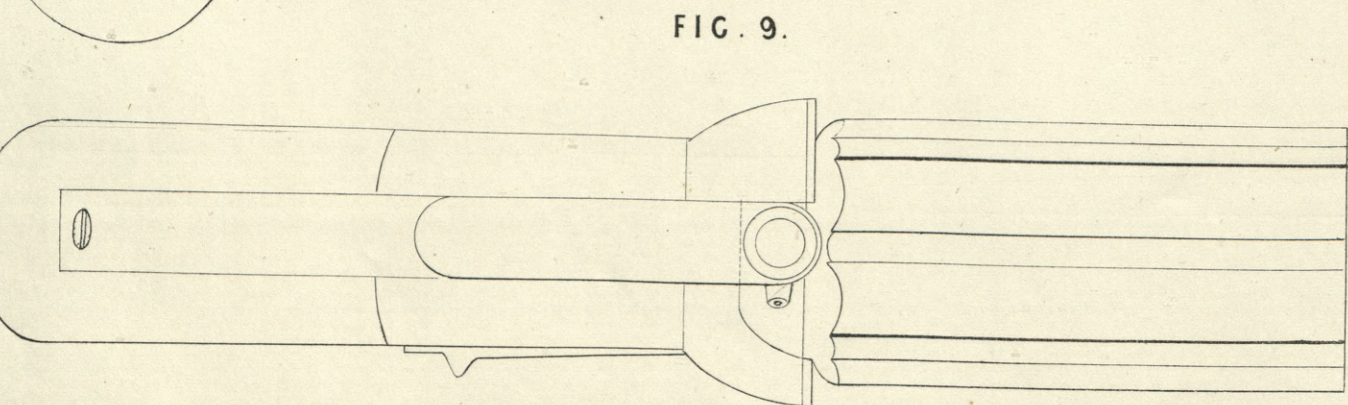


FIG. 9.

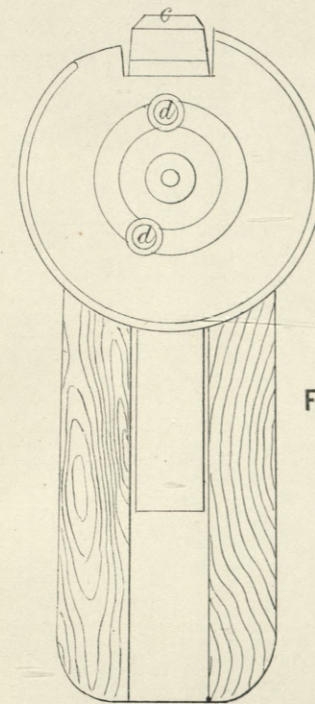


FIG. 14.

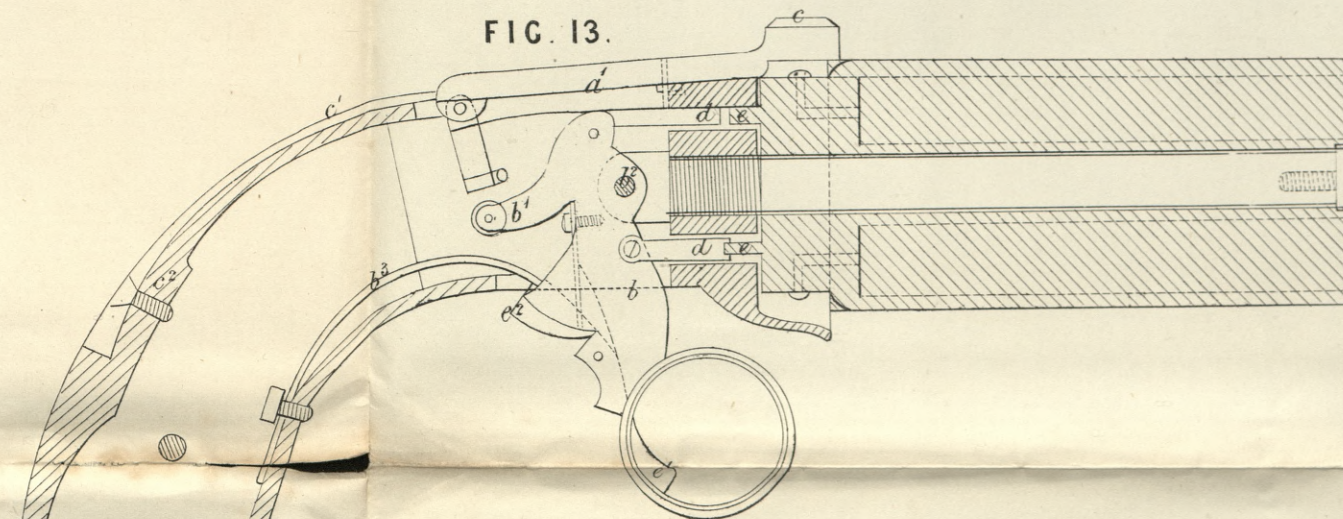


FIG. 13.

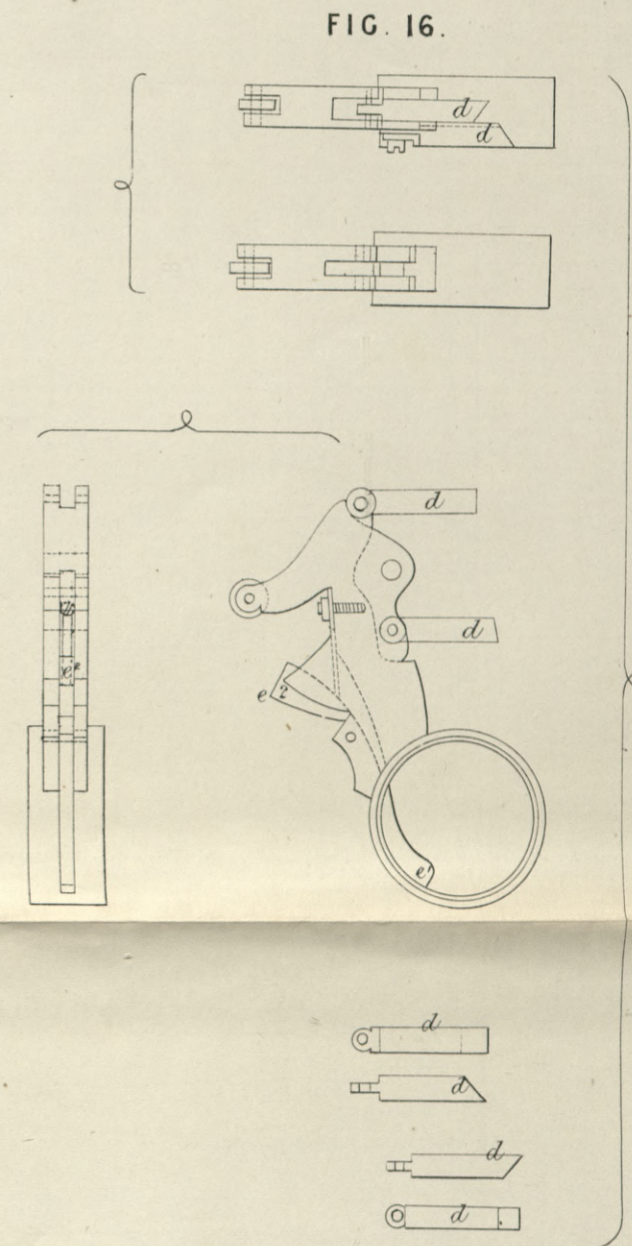


FIG. 16.

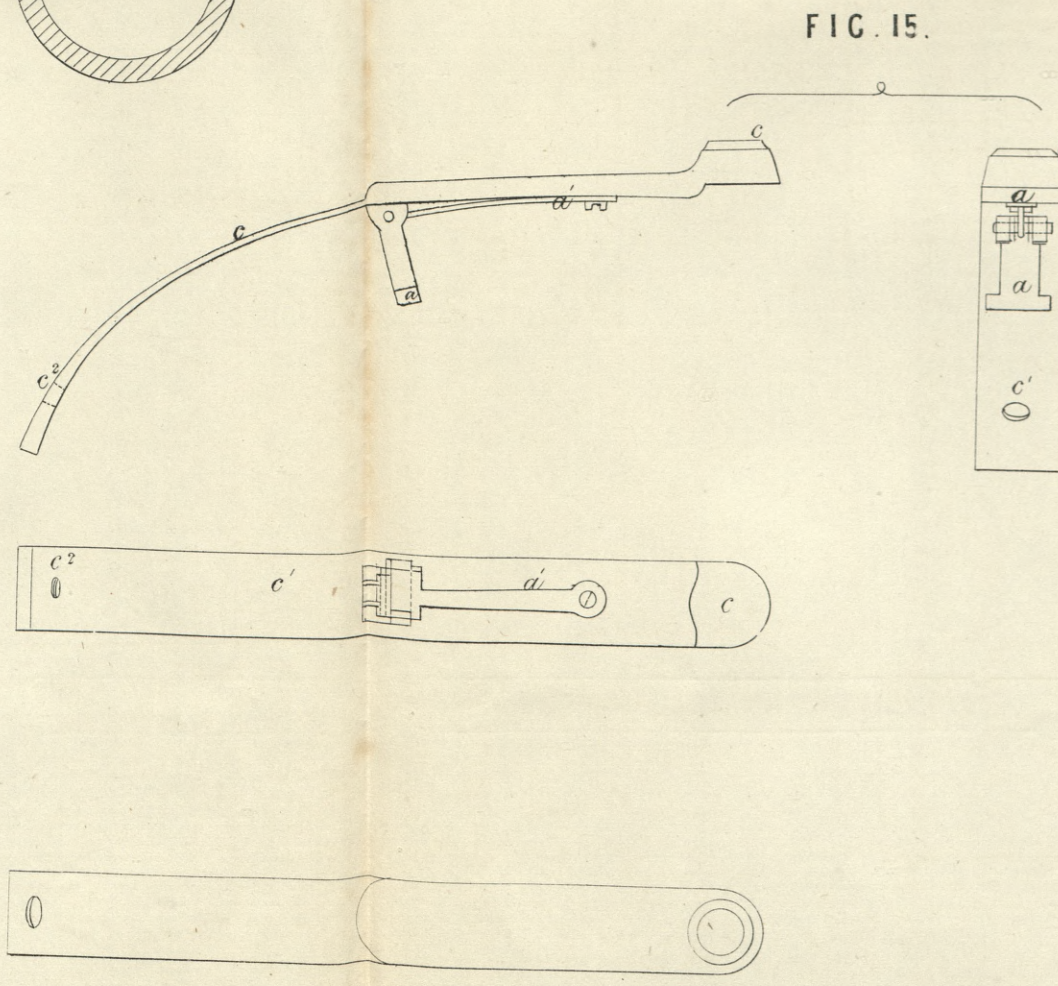


FIG. 15.

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COOPER'S PATENT

FIG. 13

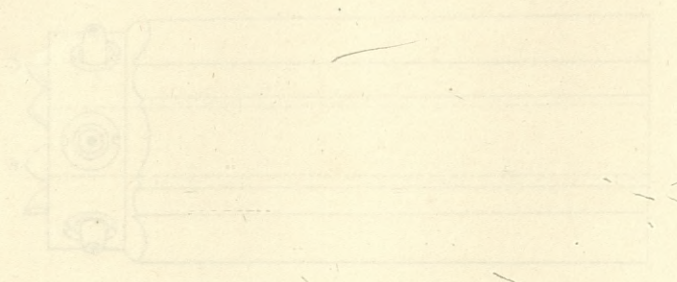


FIG. 11



BIBLIOTEKA KORNICKA

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