

B. BURTON.
Bayonet-Sockets.

No. 143,495.

Patented Oct. 7, 1873.

Fig. 1.

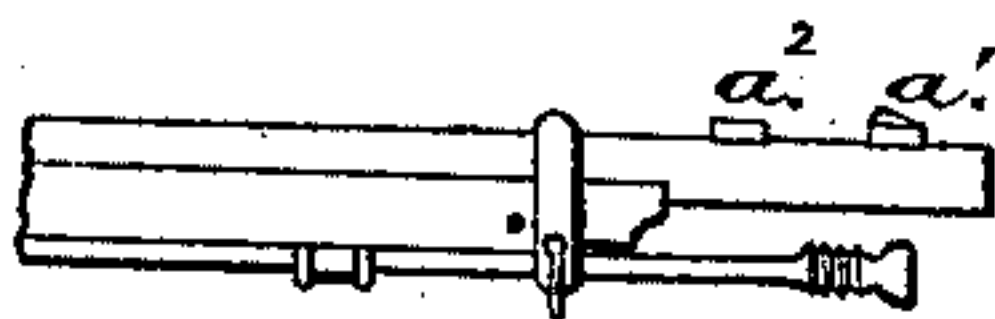


Fig. 2.

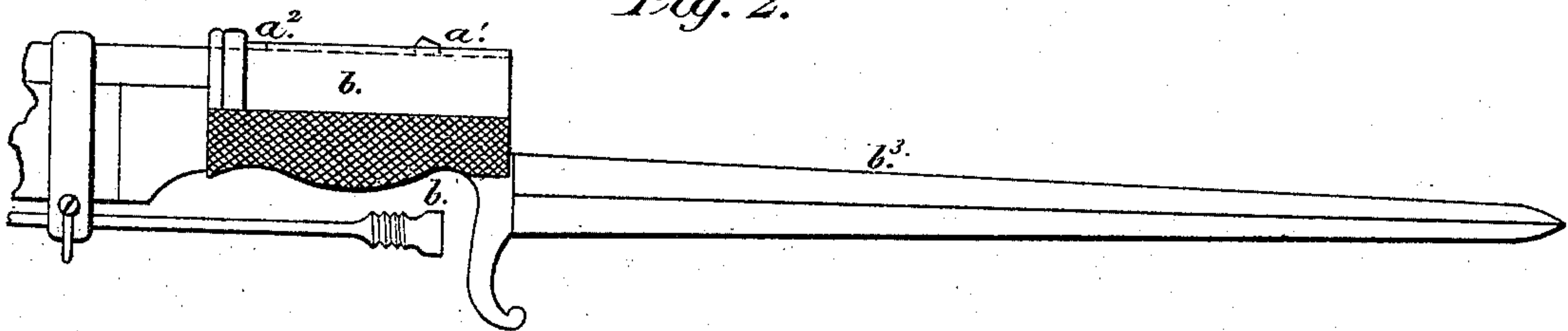
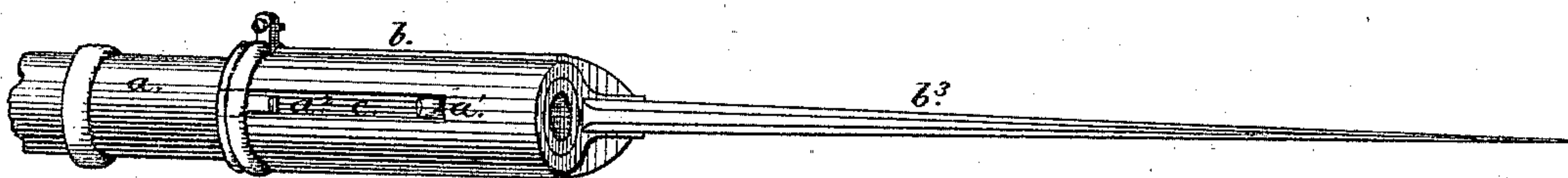


Fig. 3.



attest;
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UNITED STATES PATENT OFFICE.

BETHEL BURTON, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN BAYONET-SOCKETS.

Specification forming part of Letters Patent No. **143,495**, dated October 7, 1873; application filed April 10, 1872.

To all whom it may concern:

Be it known that I, BETHEL BURTON, city of Brooklyn, county of Kings and State of New York, have invented certain Improvements in Socket-Handles for Sword-Bayonets, Intrenching-Trowels, and other like implements, and in adapting them to be attached with the barrels of fire-arms, of which the following is a specification:

In the use of a bayonet, adapted also to be used separately and independently, as well as in the use of the trowel-bayonet, it has been found desirable to provide a convenient and secure means of attachment with the barrel of the arm, and at the same time to have a smooth or symmetrical handle free from angular projections, so that the operator may use them detached from the gun as a separate implement without danger of being cut or lacerated by the rough and sharp projections usual to fastening devices for this purpose. To this end my invention consists, first, in the construction of the usual tubular socket with a straight slot extending from the rear end to near the front, and in combining therewith a ring arranged as near as possible to the rear end of the socket, said ring being provided with a notch or groove, and adapted to revolve around the socket, which is provided with a rim or shoulder to hold the ring from being slipped over the end of the same.

In connection with the above-described construction of socket, I provide a second lump on the barrel, in a line with the sight, of substantially the same size, only not so high, behind which the ring catches when turned, and thereby locks the bayonet in place; also, in connection with the above-described socket, I take hamillite and press it into form, or other suitable material, and make and secure thereto a symmetrical additional piece, and thereby form a handle of a form which affords a good gripe, and by which the implement may be handled with effect. The extra piece or han-

dle proper may be riveted or secured in any convenient manner. I arrange the edges of the sword so that they are in the same plane with the arm, and therefore running through the center or axis of the socket, and consequently through the axis of the bore of the barrel of the gun. By this construction there is no tendency whatever to deflect the flight of the projectile, and the center of gravity is in a vertical plane, so there is no tendency to twist or derange the gun when at the shoulder.

Figure 1 of the drawings is a side view at the muzzle of the gun, showing the front sight and the other lump for securing the socket to the barrel. Fig. 2 is a side view of the bayonet attached to the barrel. Fig. 3 is a top view of the same.

a is the barrel; a^1 , the front sight; a^2 , the rear lump; b , the socket; b^1 , the handle attachment; b^2 , the ring, and b^3 the blade. The front lump a^1 serves as a sight and prevents the socket from going on too far, and the rear lump and ring prevent the socket from coming off. c is the groove in the socket in which the lumps a^1 and a^2 enter. b^1 is the attached handle.

It is important that the fastening-ring b^2 be arranged close to the rear end of the socket.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination, substantially as herein described, of the socket provided with a straight slot and rim or shoulder and the ring arranged at the rear end of the socket, as and for the purposes described.

2. The combination, with the subject-matter of the foregoing claim, of the attachment b^1 , whereby a perfect sword or other handle and bayonet-socket is produced, as set forth.

BETHEL BURTON.

Witnesses:

F. F. MARBURY, Jr.,
EDWD. HARTNAGLE.