

No. 710,182.

Patented Sept. 30, 1902.

W. B. CAROLUS.
BOLT AND NUT CUTTER.

(Application filed May 19, 1902.)

(No Model.)

Fig. 1.

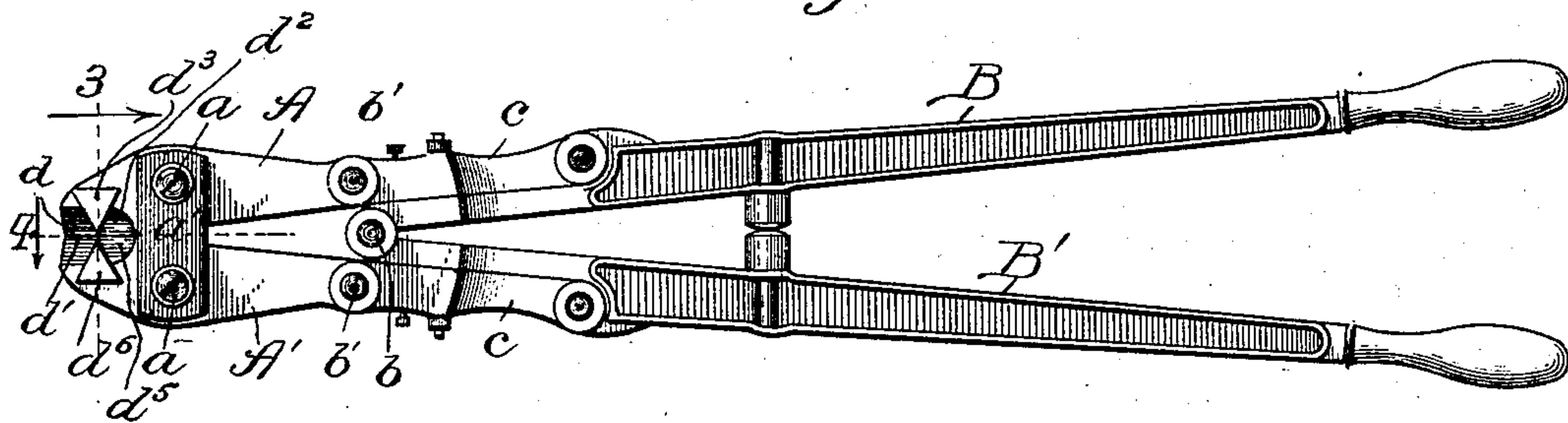


Fig. 2.

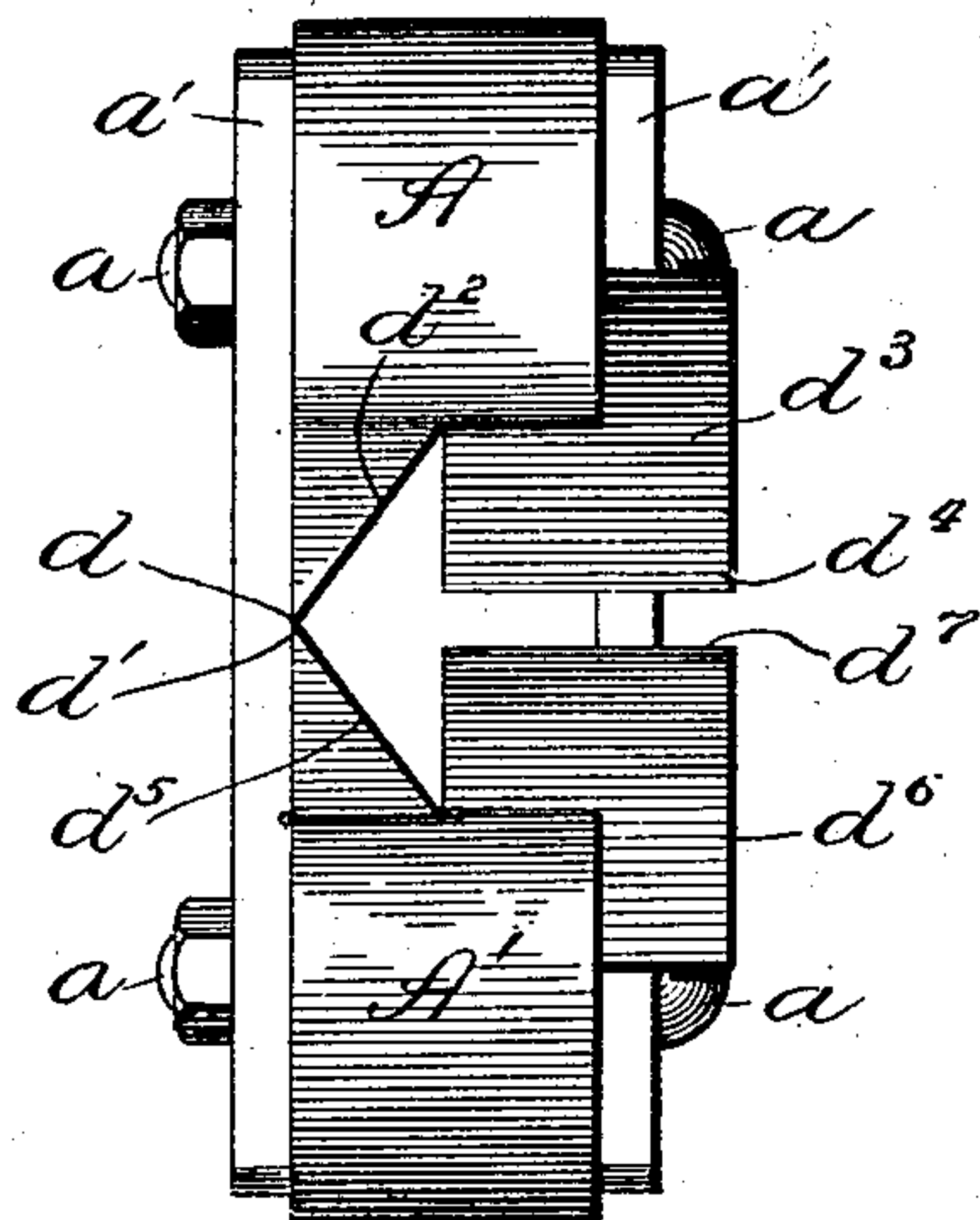


Fig. 3.

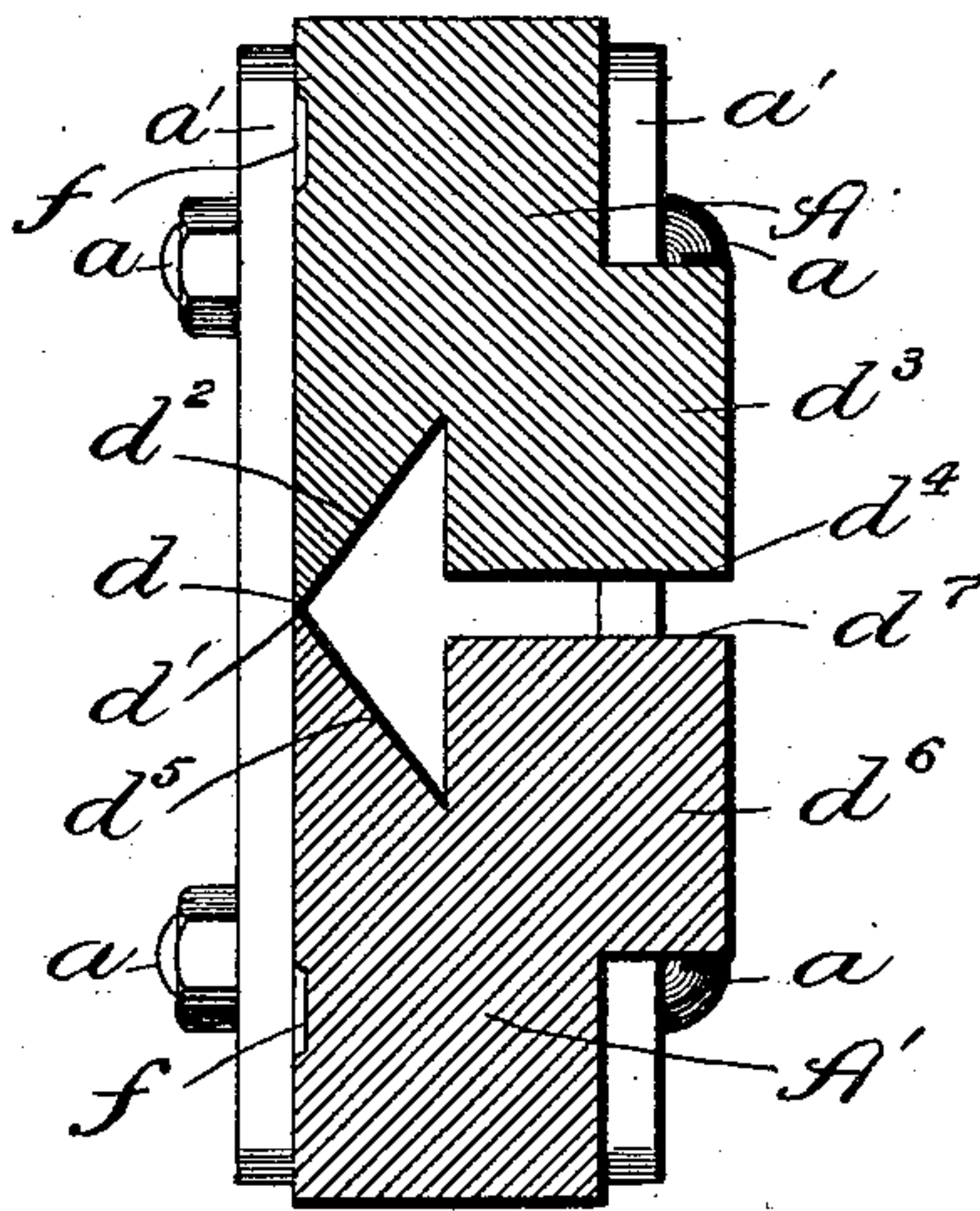
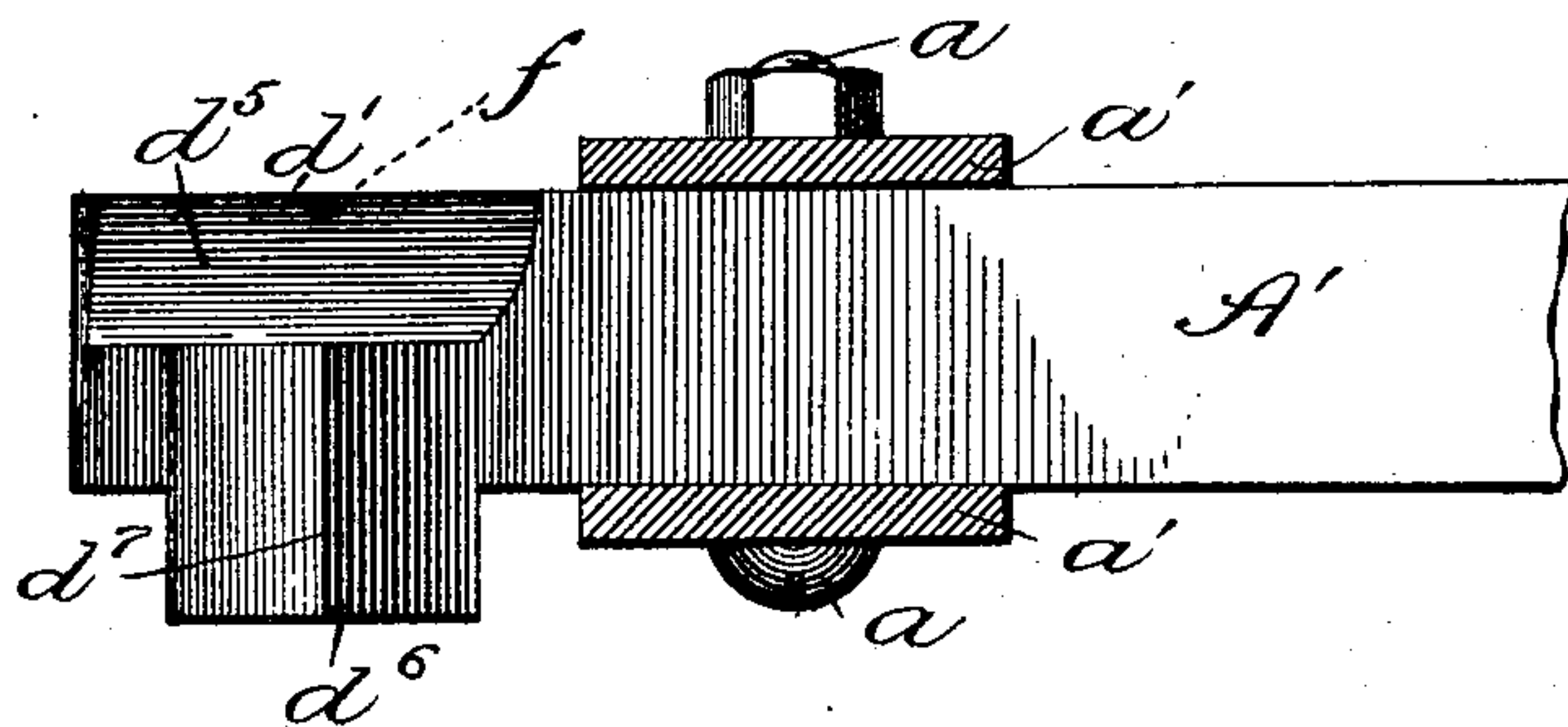


Fig. 4.



Witnesses:

John Enders &
Geo. C. Davison.

Inventor:

William B. Carolus,

By Dyrenforth, Dyrenforth & Lee,
Attys.

UNITED STATES PATENT OFFICE.

WILLIAM B. CAROLUS, OF STERLING, ILLINOIS.

BOLT AND NUT CUTTER.

SPECIFICATION forming part of Letters Patent No. 710,182, dated September 30, 1902.

Application filed May 19, 1902. Serial No. 108,045. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM B. CAROLUS, a citizen of the United States, residing at Sterling, in the county of Whiteside and State of Illinois, have invented a new and useful Improvement in Bolt and Nut Cutters, of which the following is a specification.

My invention relates particularly to combination bolt and nut cutters; and my primary object is to provide an instrument of this character of very simple construction.

My invention is illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of the implement; Fig. 2, an end view; Fig. 3, an enlarged section taken as indicated at line 3 of Fig. 1, and Fig. 4 an enlarged broken section taken as indicated at line 4 of Fig. 1.

The preferred construction is as follows:
A A' represent a pair of swinging bolt-cutting blades pivotally joined by bolts *a* to connecting-blocks *a'*; B B', levers pivotally joined together at *b* and connected by pivots *b'* with the base ends of the blades. The levers B B' have adjustable sections *c*, of well-known construction. The blades have sharp bolt-cutting edges *d d'* in a plane parallel with the plane of the levers and blades. The blade A is beveled at *d²* to produce the edge *d* and is equipped with an integrally-forged nut-splitting blade *d³*, which overhangs said beveled surface and has an edge *d⁴* at right angles to the edge *d*. Similarly, the blade A' is beveled at *d⁵*, and has a blade *d⁶* with a nut-bearing edge *d⁷* opposed to the edge *d⁴*. The edge *d⁴* is sharp and serves to cut into a nut, while the edge *d⁷* is somewhat blunt, affording a bearing about which the halves of the nut swing when the nut is split by the edge *d⁴*. The blades *d³ d⁶* are so spaced that when the edges *d d'* are in contact there is space for a bolt between the edges *d⁶ d⁷*.

In use one side or the other of the implement is employed, according to whether a bolt is to be clipped or a nut split. I provide the flat sides of the blades A A' with transverse grooves or indicating-points *f*, which are in alinement with the blade edges *d⁴ d⁷*, so that said blade edges may be properly applied to a nut, notwithstanding they cannot be seen readily when the implement is applied to the nut.

While I have shown the nut-splitting blades formed integrally with the bolt-cutting blades, it is obvious that they may be sepa-

ately formed and made adjustable with relation to the bolt-cutting blades.

Changes in minor details of construction within the spirit of my invention may be made. Hence no undue limitation is to be understood from the foregoing detailed description.

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

1. An implement of the character described, comprising pivoted blades with cutting edges lying in one plane and blades carried by said first-named blades and having edges substantially perpendicular to those of the first-named blades and separated by a space in the closed position, for the purpose set forth.

2. An implement of the character described, comprising pivoted blades having beveled surfaces on one side and blades at substantially right angles to said first-named blades and lying on the beveled side thereof and separated by a space in the closed position of the implement, for the purpose set forth.

3. An implement of the character described, comprising pivoted blades having beveled surfaces on one side and blades at substantially right angles to said first-named blades and lying on the beveled side thereof and projecting over said beveled surfaces for the purpose set forth.

4. An implement of the character described, comprising pivoted bolt-cutting blades and nut-cutting blades formed integrally therewith and having cutting edges at substantially right angles thereto and separated by a space in the closed position of the implement, for the purpose set forth.

5. An implement of the character described, comprising pivoted blades swinging in a given plane and bearing nut-cutting edges substantially perpendicular to said plane, said edges being separated by a space in the closed position of the implement, for the purpose set forth.

6. An implement of the character described, comprising pivotally-joined blades swinging in a given plane and bearing nut-cutting edges substantially perpendicular to said plane and separated by a space in the closed position of the implement, and operating-levers pivotally joined together and to the base ends of said blades, for the purpose set forth.

WILLIAM B. CAROLUS.

In presence of—

ALBERT D. BACCI,
M. S. MACKENZIE.