

(No Model.)

F. GRIGSBY.
TWINE CUTTER.

No. 459,283.

Patented Sept. 8, 1891.

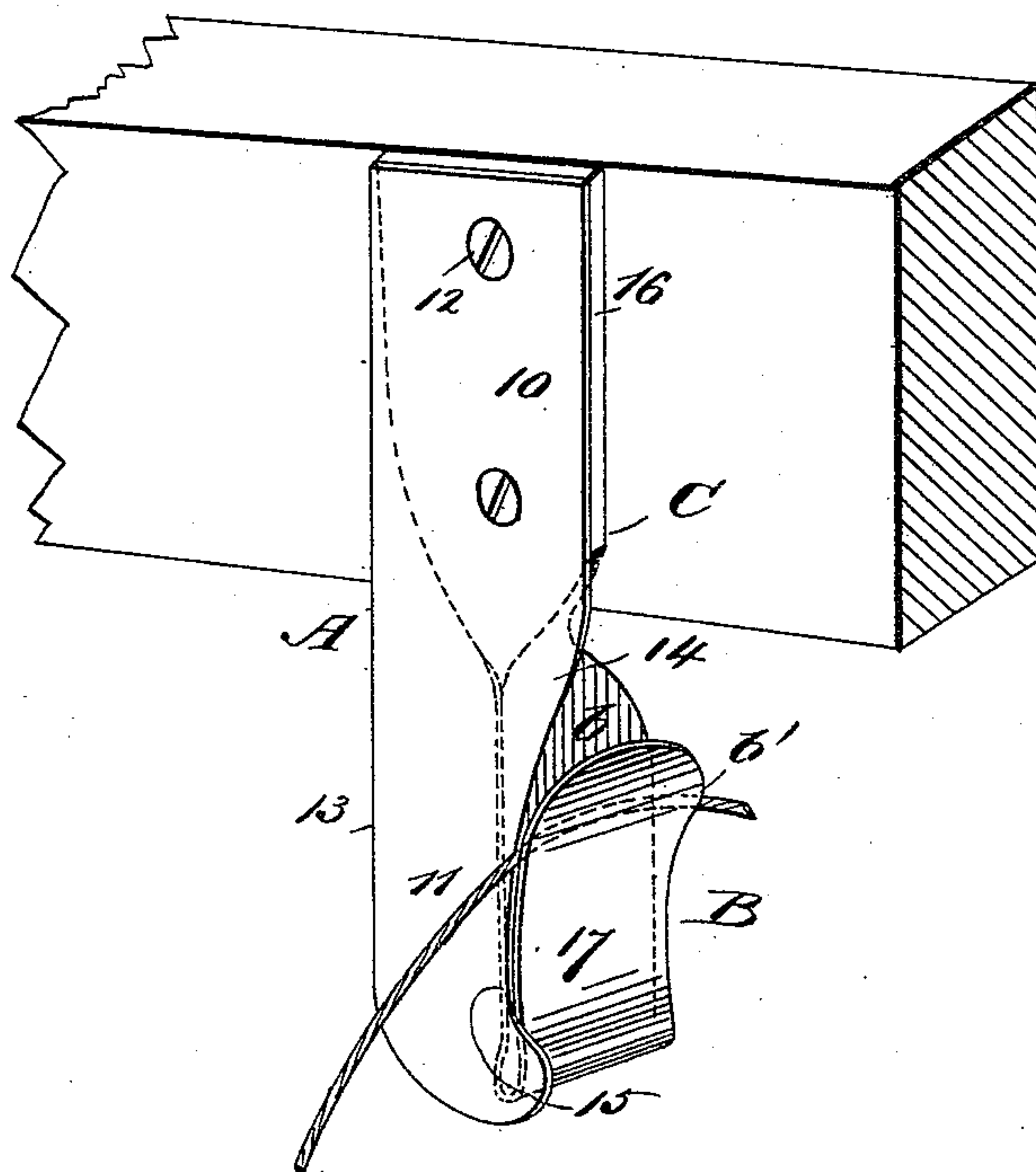


Fig. 1.

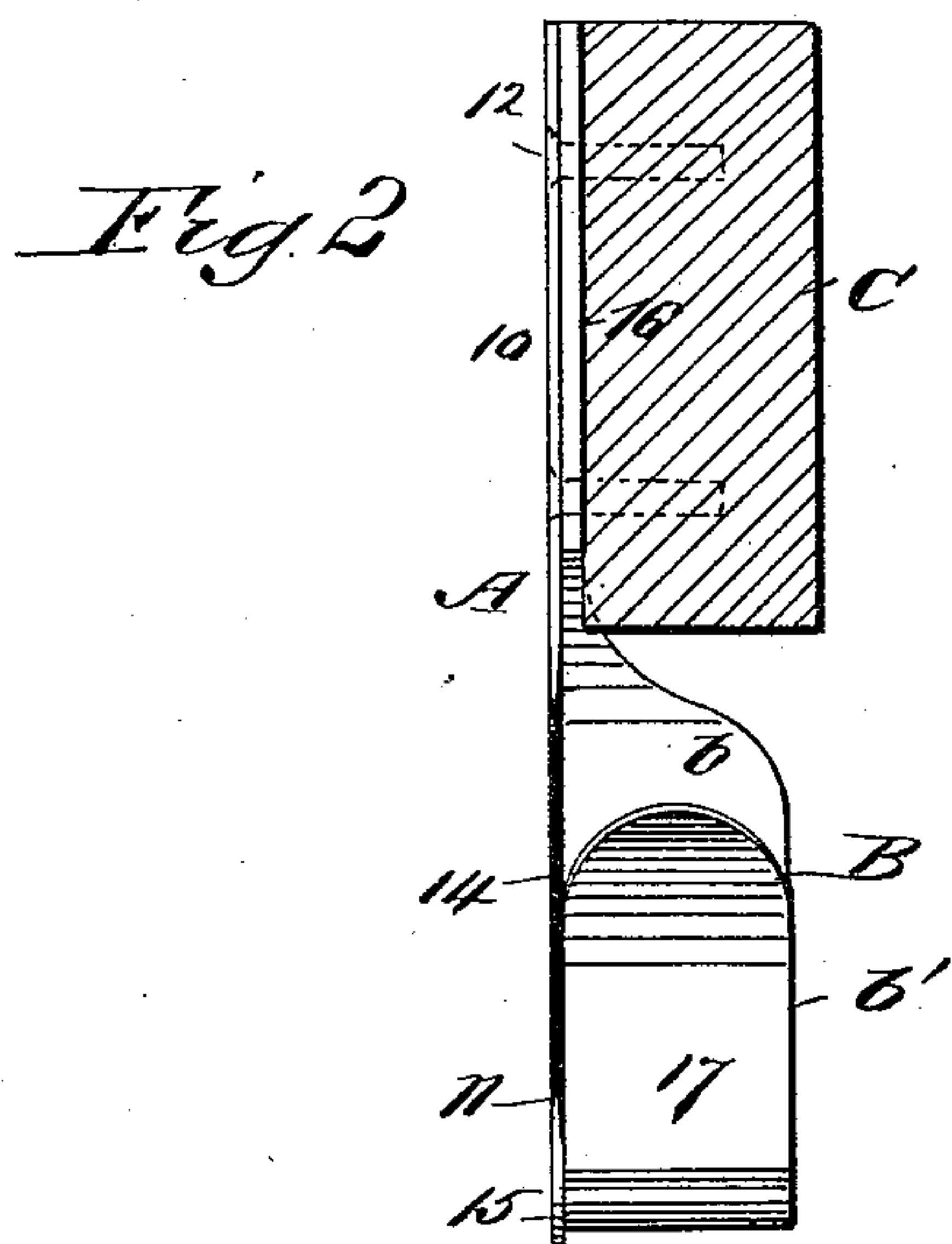


Fig. 2

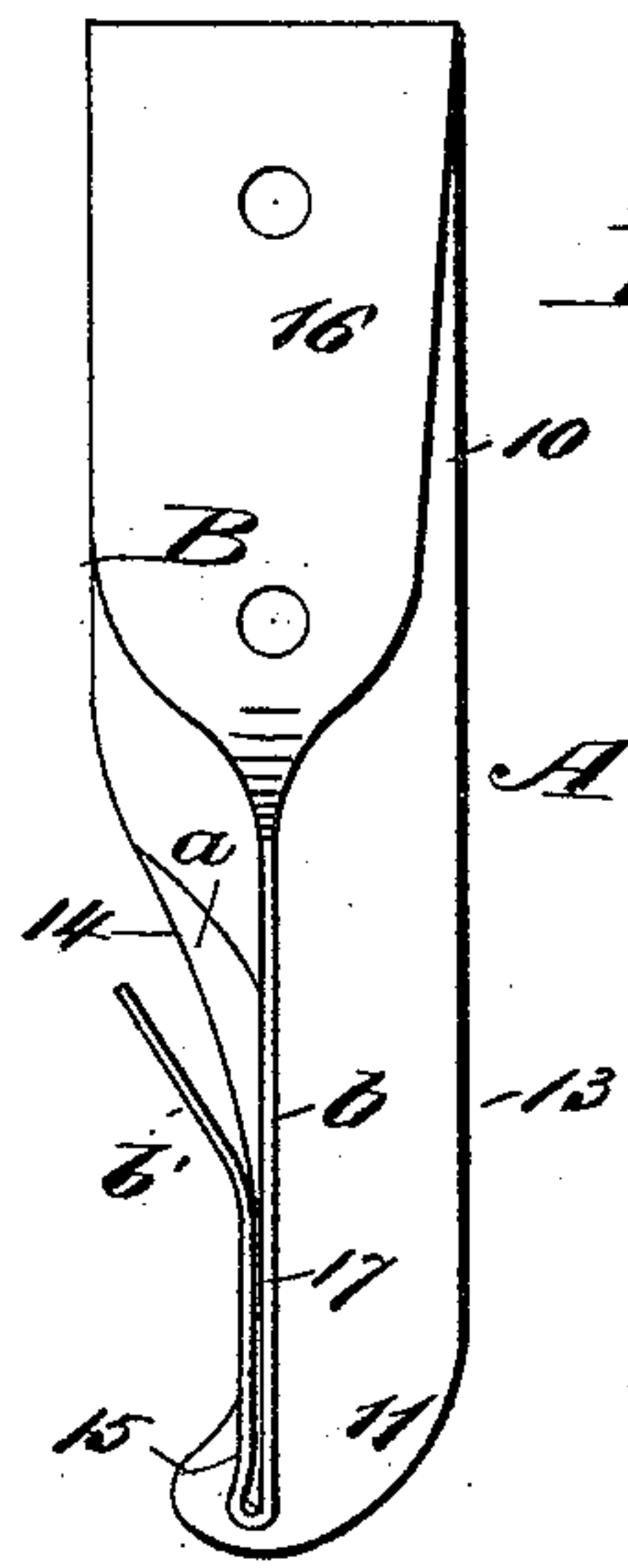


Fig. 3.

WITNESSES:

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UNITED STATES PATENT OFFICE.

FRANK. GRIGSBY, OF ALMA, NEBRASKA.

TWINE-CUTTER.

SPECIFICATION forming part of Letters Patent No. 459,283, dated September 8, 1891.

Application filed December 3, 1890. Serial No. 373,484. (No model.)

To all whom it may concern:

Be it known that I, FRANK. GRIGSBY, of Alma, in the county of Harlan and State of Nebraska, have invented a new and Improved
5 Twine Cutter and Holder, of which the following is a full, clear, and exact description.

My invention is an improvement in the class of twine-cutters consisting of a blade and a spring-plate so arranged that the twine
10 or thread is drawn between them and thereby severed.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and
15 pointed out in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures and letters of reference indicate corresponding parts in all the
20 views.

Figure 1 is a perspective view of the device in operative position. Fig. 2 is a vertical section through the support of the device, the device being in side elevation; and Fig. 3 is
25 an edge view of the cutter and holder.

The invention consists, primarily, of two parts—namely, a cutter A and a holder B. The cutter is a steel plate of greater length than width, comprising a shank-section 10
30 and a blade-section 11. The shank-section is provided with apertures to receive screws 12 or their equivalent, adapted to secure the cutter to any convenient support C. Both the back 13 and cutting-edge 14 of the blade-section may be straight; but the cutting-edge is preferably curved, as illustrated in the drawings, in which the curve extends downward and inward, or in direction of the back, and outward at the bottom of the section, forming thereby a convex surface 15 and imparting to the cutting-edge of the blade-section a hook-like appearance. The cutting-edge is preferably sharpened by beveling the inner face of the steel plate, as shown at *a*
40 in Fig. 3.

The holder B is constructed of an elastic material, preferably spring metal in plate form, the plate being so shaped as to comprise a shank-section 16 and a retaining-section 17. The shank-section is adapted for
50 engagement with the corresponding section

of the cutter, and is similarly apertured. In fact, the two shank-sections are parallel. The retaining-section of the holder is twisted at its junction with the shank, so that it stands
55 at a right angle to said shank, and one side edge of the retaining-section of the holder engages with the inner face of the blade-section of the cutter. The retaining-section comprises two members *b* and *b'*, as said section
60 is bent upward upon itself, the two members being but a slight distance apart the greater portion of their length. The upper end of the member *b'*, however, is curved outward and away from the member *b*, which immediately connects with the shank-section. The
65 lower end of the retaining-section of the holder engages with the lower end of the blade-section of the cutter, and the outer member *b'* of the retaining-section of the holder is removed a slight distance from the cutting-edge of the cutter-blade section.

Thus in operation the package, after being wrapped with twine, is taken in the left hand and the surplus twine or string in the right
75 hand. By a movement of the left hand the surplus string is passed between the members of the retaining-section of the holder, and when this is accomplished the string is simultaneously drawn down in the retaining-section by the right hand and carried by the left hand against the cutting-edge of the cutter and severed. The end of the ball of twine or string being retained by the member of the holder, it may be conveniently grasped and
85 removed when the next bundle is to be tied.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination, with the thread-holder B, 90 having the reversely-bent or hook-shaped portion *b b'*, of the cutting-blade A, which is arranged parallel and close to a side edge of said holder, its lower end being extended across the corresponding portion of the holder, 95 whereby it is adapted to engage and sever a thread in the manner shown and described.

FRANK. GRIGSBY.

Witnesses:

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