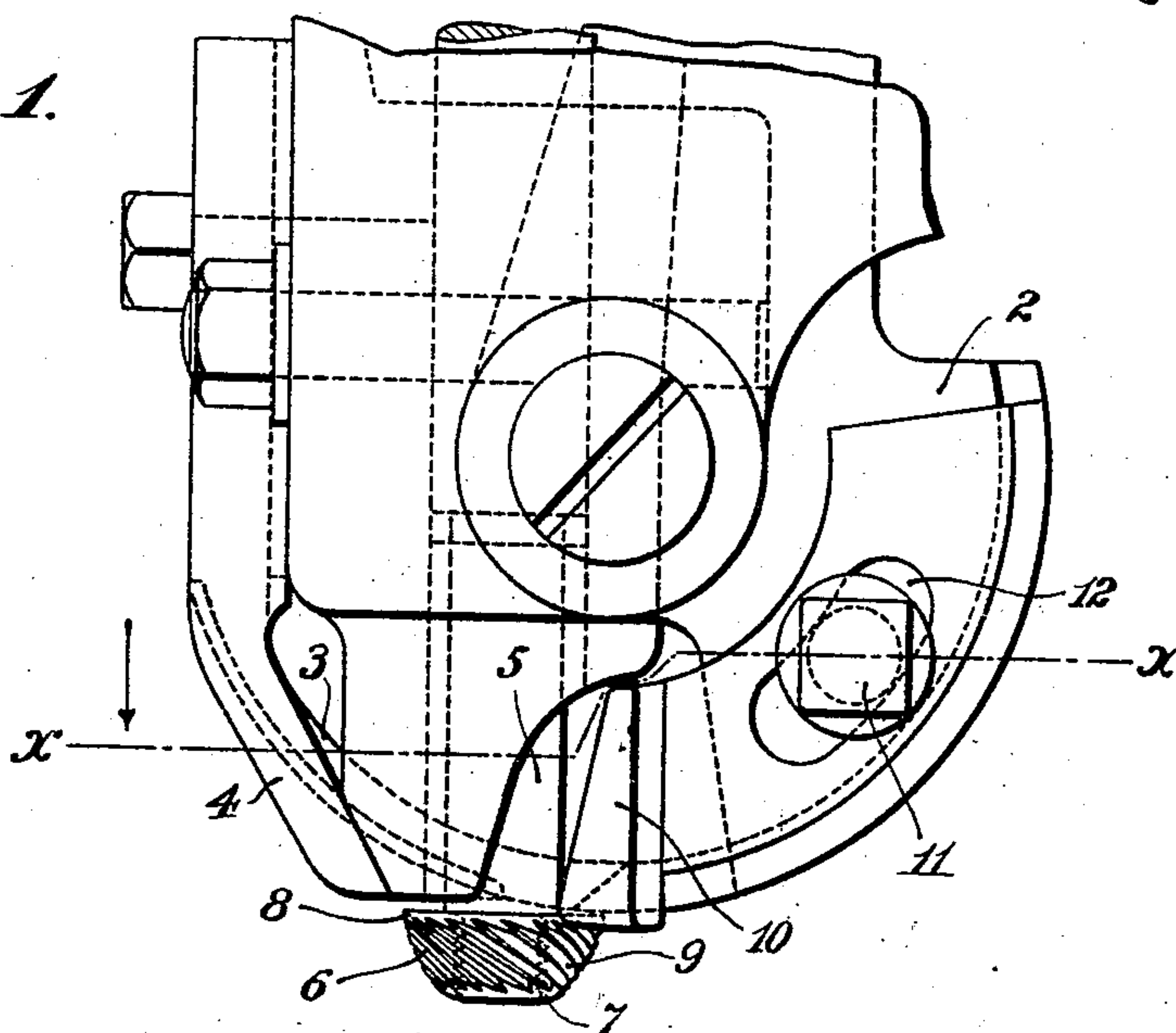


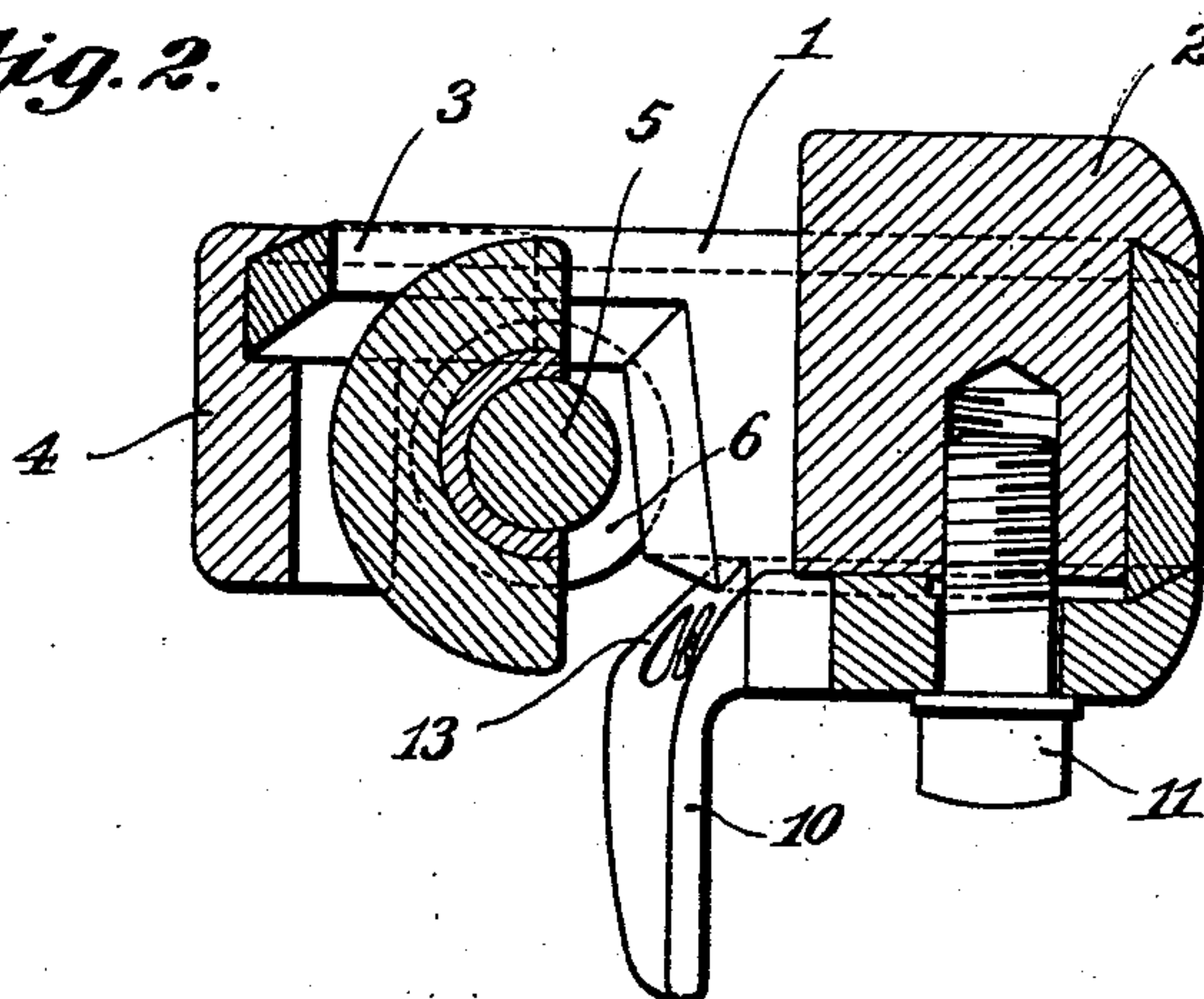
968,556.

Patented Aug. 30, 1910.

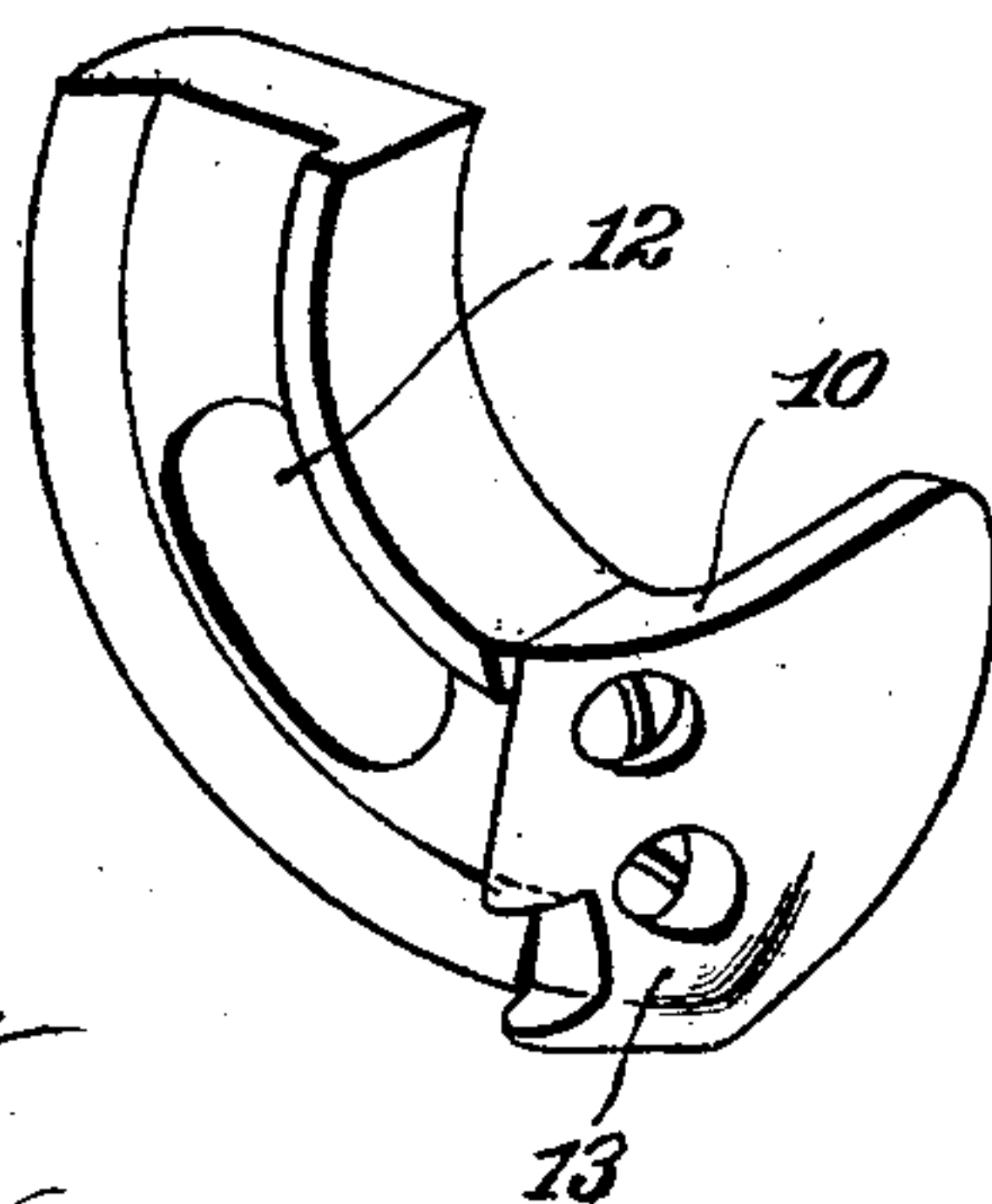
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



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A. C. Richardson.

*Inventor:*  
*John B. Hildaway*  
*by his Attorneys*  
*Phillips Van Curen & Fish*



# UNITED STATES PATENT OFFICE.

JOHN B. HADAWAY, OF BROCKTON, MASSACHUSETTS, ASSIGNOR TO UNITED SHOE MACHINERY COMPANY, OF PATERSON, NEW JERSEY, A CORPORATION OF NEW JERSEY.

VAMP-TRIMMING MACHINE.

968,556.

Specification of Letters Patent.

Patented Aug. 30, 1910.

Application filed November 28, 1906. Serial No. 345,523.

*To all whom it may concern:*

Be it known that I, JOHN B. HADAWAY, a citizen of the United States, residing at Brockton, in the county of Plymouth and State of Massachusetts, have invented certain new and useful Improvements in Vamp-Trimming Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The present invention relates to vamp trimming machines which are adapted to trim off the surplus material at the edges of the vamp and lining of a lasted shoe after the lasting operation in order to prepare the shoe for the operation of the inseam sewing machine.

The invention is intended primarily as an improvement upon the vamp trimming machine disclosed in applicant's prior application Serial No. 333,773, filed September 8, 1906, although it is not limited to use in said machine, but may be applied to various forms of vamp trimming machines.

The object of the present invention is to provide a vamp trimming machine comprising a vibrating vamp trimming knife with an improved vamp bending device to act on the projecting edge of the vamp and cause it to be presented properly to the trimming knife.

With this object in view the present invention consists in a vamp trimming machine comprising a vibrating vamp trimming knife and a vamp bending device constructed and arranged to operate in the manner hereinafter described and claimed.

A preferred form of the present invention is illustrated in the accompanying drawings, in which—

Figure 1 is a view in side elevation of a portion of a vamp trimming machine embodying the same; Fig. 2 is a detail sectional plan view taken on the line  $x-x$  of Fig. 1; and Fig. 3 is a detail perspective view of the vamp bending device detached from the machine.

With the exception of the guiding roll for the vamp and lining, and the vamp bending device, the parts illustrated in Figs. 1 and 2 are constructed and arranged to operate in the same manner as the corresponding parts of the vamp trimming machine disclosed in applicant's prior application, 1 in-

dicating the vibrating vamp trimming knife, 2 its oscillating carrier, 3 the forward extension on the knife, 4 the guide for the extension on the knife, and 5 the vertical rotating shaft, to the lower end of which the guiding roll for the vamp and lining is secured.

The guiding roll is indicated at 6, and, as is clearly shown in Fig. 1, is frusto-conical in shape, with its base of smaller diameter directed downwardly toward the sole of a shoe placed in the machine. This roll is preferably rounded off as indicated at 7 at its lower end to bring the point about which the shoe can be tipped still nearer to the axis of the roll. In the embodiment of the invention illustrated in the drawings the roll is provided at its upper end, or base of larger diameter, with a knife edge 8 which coöperates with the cutting edge of the vibrating knife 1. The roll is also provided with spiral ribs 9 arranged to exert an outward wiping action on the lining so as to stretch the lining as it passes to the trimming knives.

It will be obvious from an inspection of Fig. 1 that the guiding roll therein illustrated can readily follow around the toe of a pointed shoe, and that the roll will permit the shoe to be tipped at any time during the trimming operation without moving the line of cut away from the sole to an objectionable extent.

The vamp bending device is indicated at 10. As illustrated, the bending device is adjustably secured to the carrier 2 of the vibrating trimming knife by means of a clamping bolt 11 passing through an arc-shaped slot 12 in the shank of the bending device. The work-engaging portion of the bending device, as best illustrated in Fig. 2, extends beyond the cutting edge of the vibrating knife and has a portion of its surface, indicated at 13, at an angle to the direction of feed. This surface during the forward movement of the bending device acts to force the bent-in portion of the vamp in the direction of the feed, as will be obvious without further description. To allow clear-  
cated at one side of the vibrating vamp lining the surface 13 is preferably concaved as indicated in Fig. 3. The work-engaging portion of the vamp bending device is located at one side of the vibrating vamp trimming knife, and since it extends flush



with or beyond the cutting edge of the knife, acts with certainty to bend the vamp inwardly into a position to pass between the cutting edges of the knives. The vamp bending device, as indicated in Figs. 1 and 3, extends into a plane below the cutting edge of the vibrating knife so that it is in a position to contact with the heads of the lasting tacks and prevent the tacks from coming into engagement with the cutting edges of the knives.

The nature and scope of the present invention having been indicated and the preferred form of the invention having been specifically described, what is claimed is:

1. A vamp trimming machine having, in combination, a vibrating vamp trimming knife, a knife cooperating therewith, a vibrating vamp bending device movable with the vibrating knife and provided with a vamp-engaging surface extending at one side of and substantially flush with the cutting edge of the knife.

2. A vamp trimming machine having, in combination, a vibrating vamp trimming knife, a knife cooperating therewith and a vibrating vamp-bending device mounted to move with the vibrating knife and provided with a vamp-engaging surface arranged to force the bent-in portion of the vamp in the direction of feed.

3. A vamp trimming machine having, in combination, a vibrating vamp trimming knife, a knife cooperating therewith, and a vamp bending device mounted to move with the vibrating knife and provided with a portion extending substantially flush with the cutting edge of the knife in position to prevent lasting tacks passing between the cutting edges of the knives.

In testimony whereof I affix my signature, in presence of two witnesses.

JOHN B. HADAWAY.

Witnesses:

FRED O. FISH,  
ALFRED H. HILDRETH.

It is hereby certified that in Letters Patent No. 968,556, granted August 30, 1910, upon the application of John B. Hadaway, of Brockton, Massachusetts, for an improvement in "Vamp-Trimming Machines," an error appears in the printed specification requiring correction as follows: Page 1, line 105, the syllables and words "cated at one side of the vibrating vamp" should be stricken out and the syllable and words *ance for the outer edges of the vamp and* inserted instead; and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 11th day of October, A. D., 1910.

[SEAL.]

E. B. MOORE,  
*Commissioner of Patents.*