

No. 610,130.

Patented Aug. 30, 1898.

N. M. FARMER.
JOURNAL BOX.

(Application filed Mar. 22, 1898.)

(No Model.)

FIG. 1.

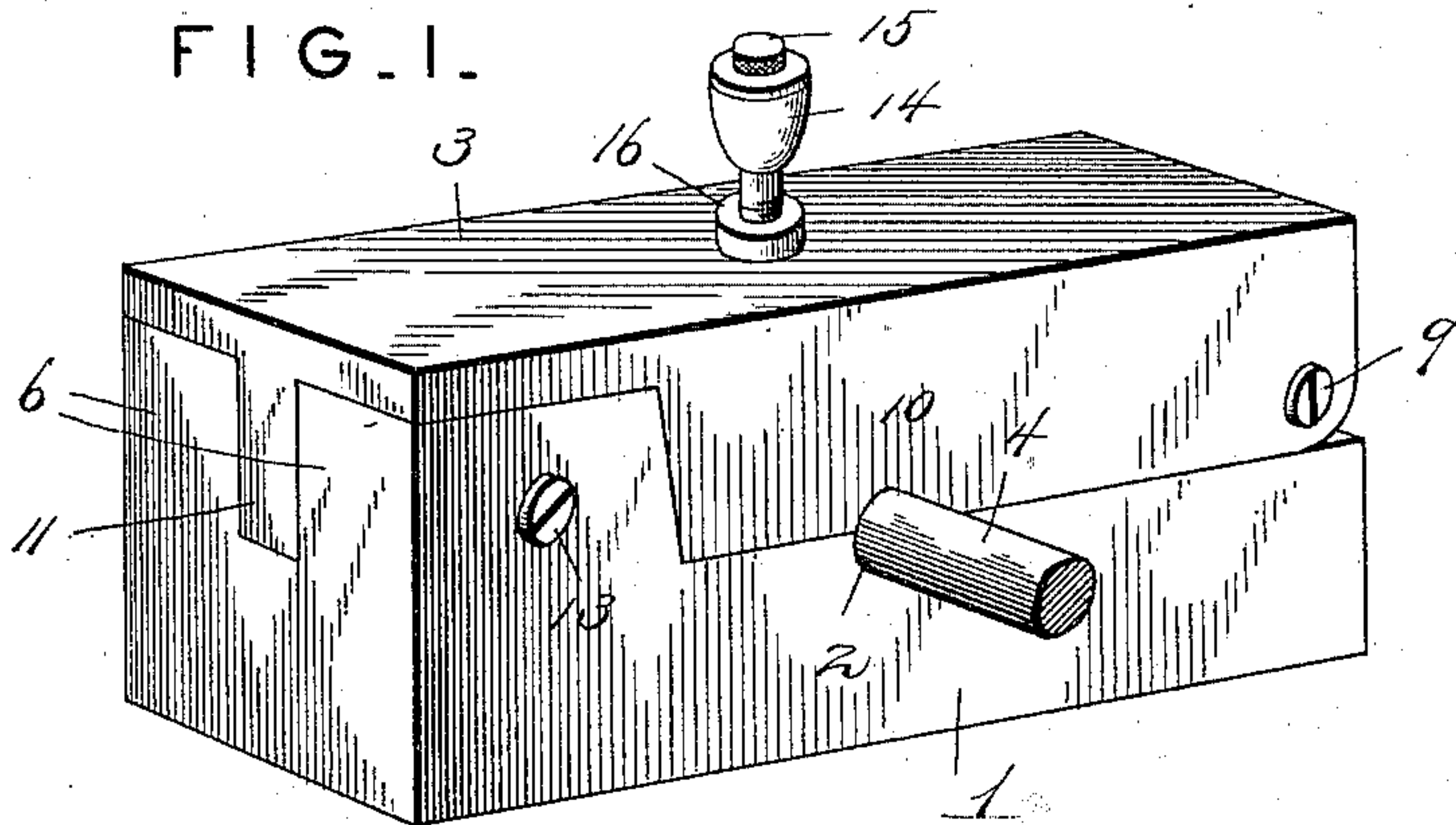


FIG. 2.

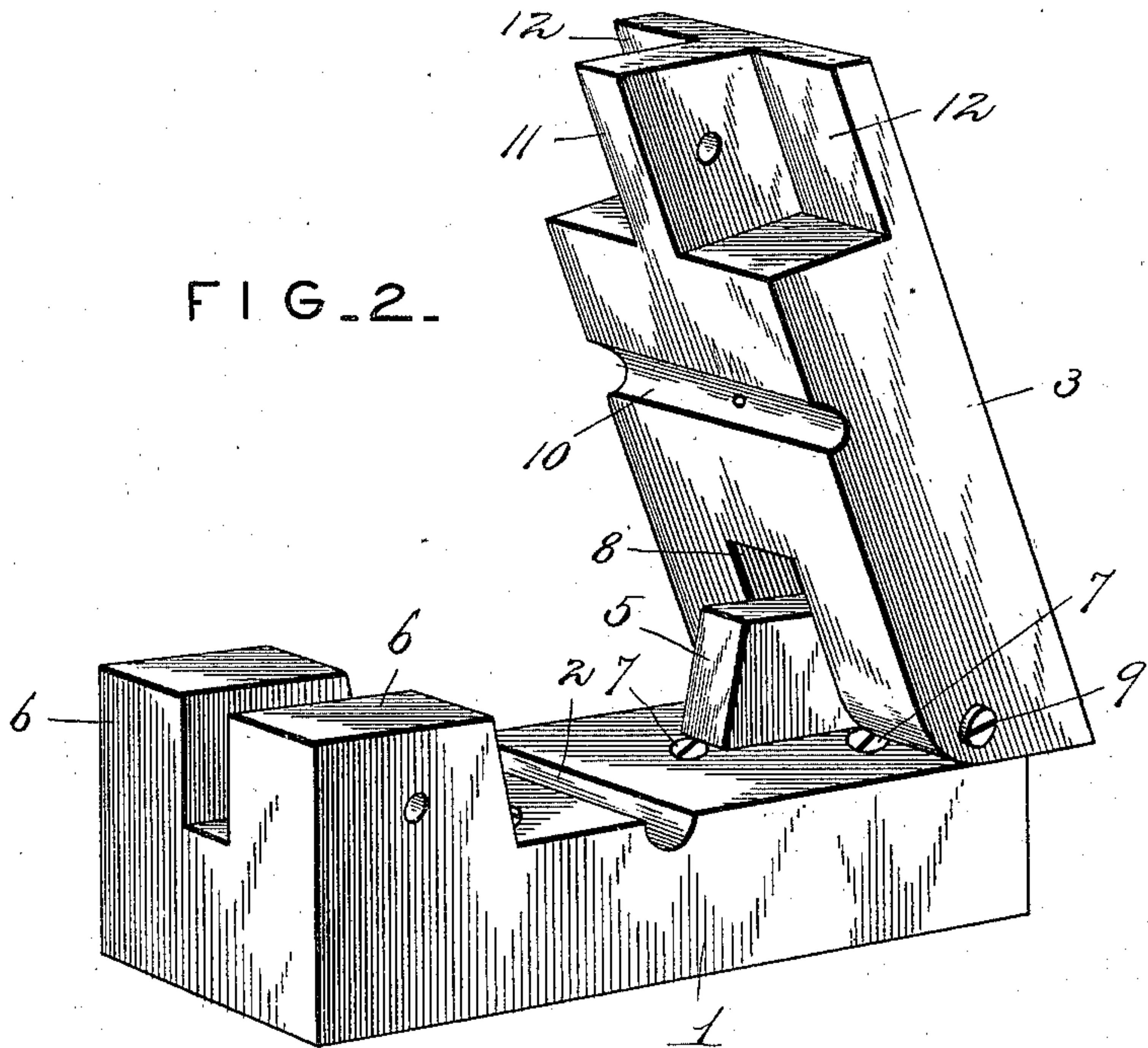
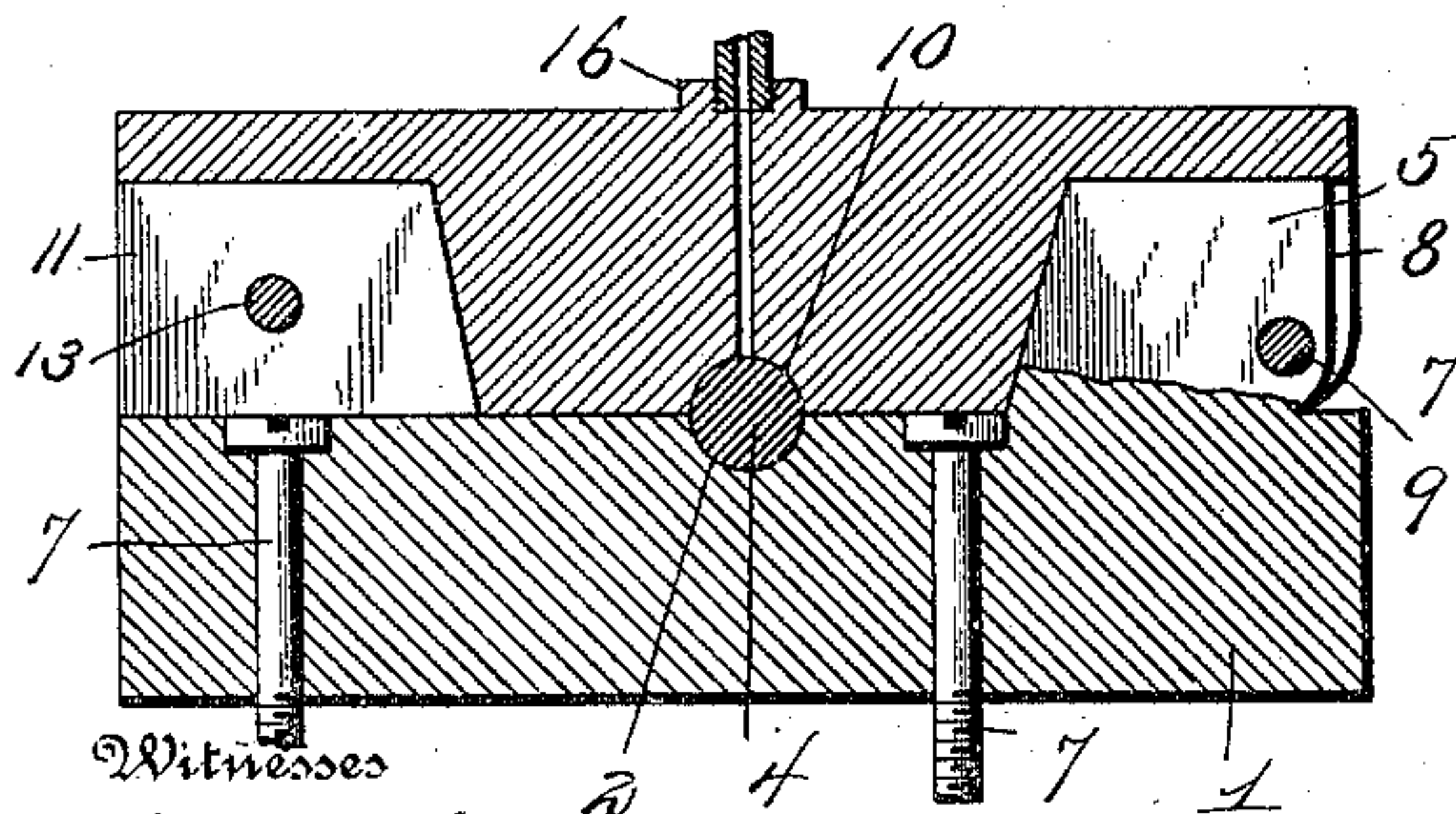


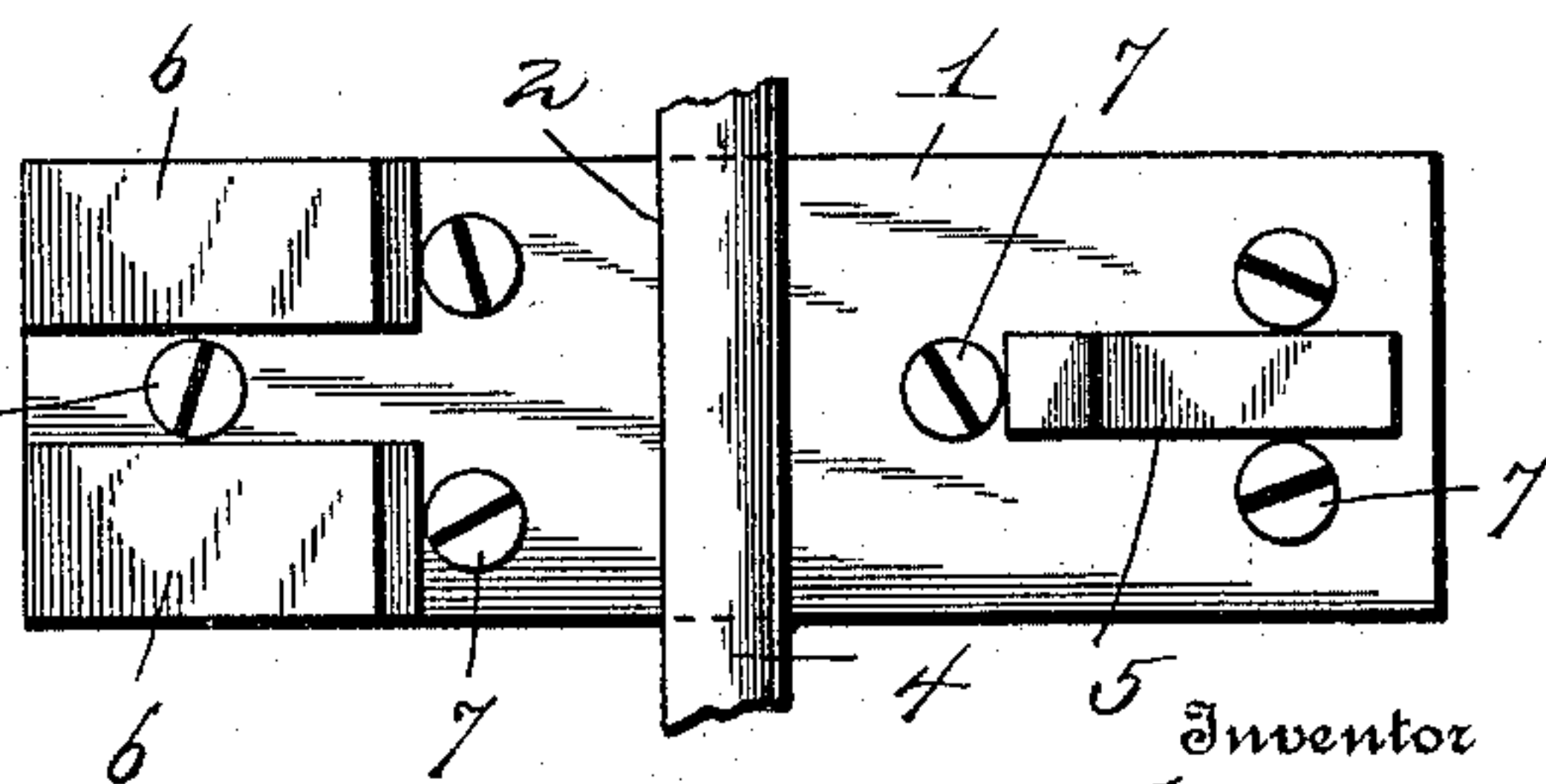
FIG. 3.



Witnesses

Harry L. Ames
L. V. Walker

FIG. 4.



Inventor
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by V. S. Shockbridge
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UNITED STATES PATENT OFFICE.

NATHAN M. FARMER, OF EMPIRE, COLORADO.

JOURNAL-BOX.

SPECIFICATION forming part of Letters Patent No. 610,130, dated August 30, 1898.

Application filed March 22, 1898. Serial No. 674,821. (No model.)

To all whom it may concern:

Be it known that I, NATHAN M. FARMER, a citizen of the United States, residing at Empire, in the county of Clear Creek and State of Colorado, have invented certain new and useful Improvements in Journal-Boxes; 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.

My invention relates to journal-boxes, the object of the same being to provide a simple and cheaply-constructed device of this character by means of which the shaft or journal moving therein may be readily removed, in which vibration of the parts thereof is effectually prevented, and in which relative movement of the two parts thereof is avoided, so that the two parts of the socket are held at all times in perfect alinement or register one with the other.

The invention consists of a base adapted to be secured to a stationary part of the machinery, having an upwardly-extending ear at one end thereof and parallel ears at the opposite end thereof, and a lid or top piece pivoted to said ear and formed with a tongue or tenon at its opposite end adapted to fit between the pair of ears or lugs on said base-piece.

The invention also consists in other details of construction and combinations of parts which will be hereinafter more fully described and claimed.

In the drawings forming a part of this specification, Figure 1 represents a perspective view of my improved journal-box shown in its closed position. Fig. 2 is a similar view of the same with the parts in their open positions. Fig. 3 is a vertical longitudinal section. Fig. 4 is a top plan view of the base-piece.

Like reference-numerals indicate like parts in the different views.

The base-piece 1 has formed in the top surface thereof a groove or channel 2, semicircular in cross-section and forming, with a similar portion on the top piece or lid 3, a socket for the reception of the journal or shaft 4. At one end of the base-piece is an upwardly-extending lug or ear 5, which is located in line with the transverse center of

said base-piece. At the opposite end of said base-piece are two upwardly-extending parallel lugs or ears 6 6, as clearly shown. The base-piece 1 is secured to any stationary part of the machinery by means of lag screws or bolts 7 7, which pass downwardly there-through and have their heads countersunk, so that they lie flush with or beneath the upper surface of said base-piece. The under side of the lid or cover 3 is formed with a socket 8, in which fits the centrally-located lug or ear 5 on the base-piece 1, to which lug said lid is pivoted by means of a screw-bolt 9. Extending transversely of the lid or cover 3 and located upon the under side thereof, in line with the groove 2 on the base-piece, is a similarly-shaped groove 10, the grooves 2 and 10 forming unitedly a socket for the reception of the journal or shaft 4.

At the free end of the lid or cover 3 a tongue or tenon 11 is formed by oppositely-disposed sockets or cut-away portions 12 12, the said tenon fitting, when the two parts of the device are in their closed positions, between the parallel lugs or ears 6 6, and said ears 6 6 fitting within said sockets or recesses 12 12, so that the vibration of the lid 3 relative to the base-piece 1 is effectually prevented. The two parts of the device are secured one to the other by means of a screw-bolt 13, extending laterally through the ears 6 6 and the tongue 11. The rear end of the lid or top piece 3, adjacent to the pivotal point thereof with the lug 5, has its lower surface rounded, so that said lid is free to be moved up or down for the purpose of opening or closing the box. In the lid 3, just above the groove 10, is an egg-shaped oil-cup 14, provided for the purpose of feeding a lubricant slowly to the moving journal, the said cup being closed by a cap 15, adapted to be screwed upon an extension 16 upon the upper side of said lid.

As thus constructed it will be seen that I have provided an extremely simple and effective device for the purpose described in which the journal or shaft moving in the box may be readily removed and disconnected for repairs or otherwise by simply removing the bolt 13 and raising the lid or cover 3 upon its pivotal connection with the base-piece 1.

It will also be observed that by the formation of the lug or ear 5, which fits within the

socket 8 in the lid or cover 3, and the tongue or tenon 11, fitting between the ears 6 6, and the latter fitting within the sockets 12 12, the two parts of the device when they are in their closed positions are effectually prevented from vibration, and the two parts of the socket in which the journal moves are held at all times in direct register one with the other.

10 The invention has been described in its preferred form; but it is obvious that many minor changes may be made therein without departing from the nature or spirit of the invention or sacrificing any of its advantages.

15 Having thus described the invention, what is claimed as new is—

20 A journal-box comprising a base-piece having a groove in its upper surface, a lug upon the upper side thereof adjacent to one end and located in line with the transverse center thereof and a pair of parallel lugs at the op-

posite end thereof integral with the base-piece, and a lid or cover having a socket in its under surface in which the centrally-located lug on said base-piece fits, to which lug said lid is pivoted, and having a tongue or tenon at its opposite end integral with the lid which fits between the parallel lugs on the base-piece, the said tongue or tenon being formed by recesses upon opposite sides thereof in which said parallel lugs fit, and said lid or cover being further provided with a groove upon its under surface which registers with the groove in the base-piece, as and for the purpose set forth.

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

NATHAN M. FARMER.

Witnesses:

J. G. WEEKS,
J. C. WRIGHT.