

W. W. Dutcher
Loom Temple.

N^o 78,441.

Patented Jun. 2, 1868.

Fig: 1.

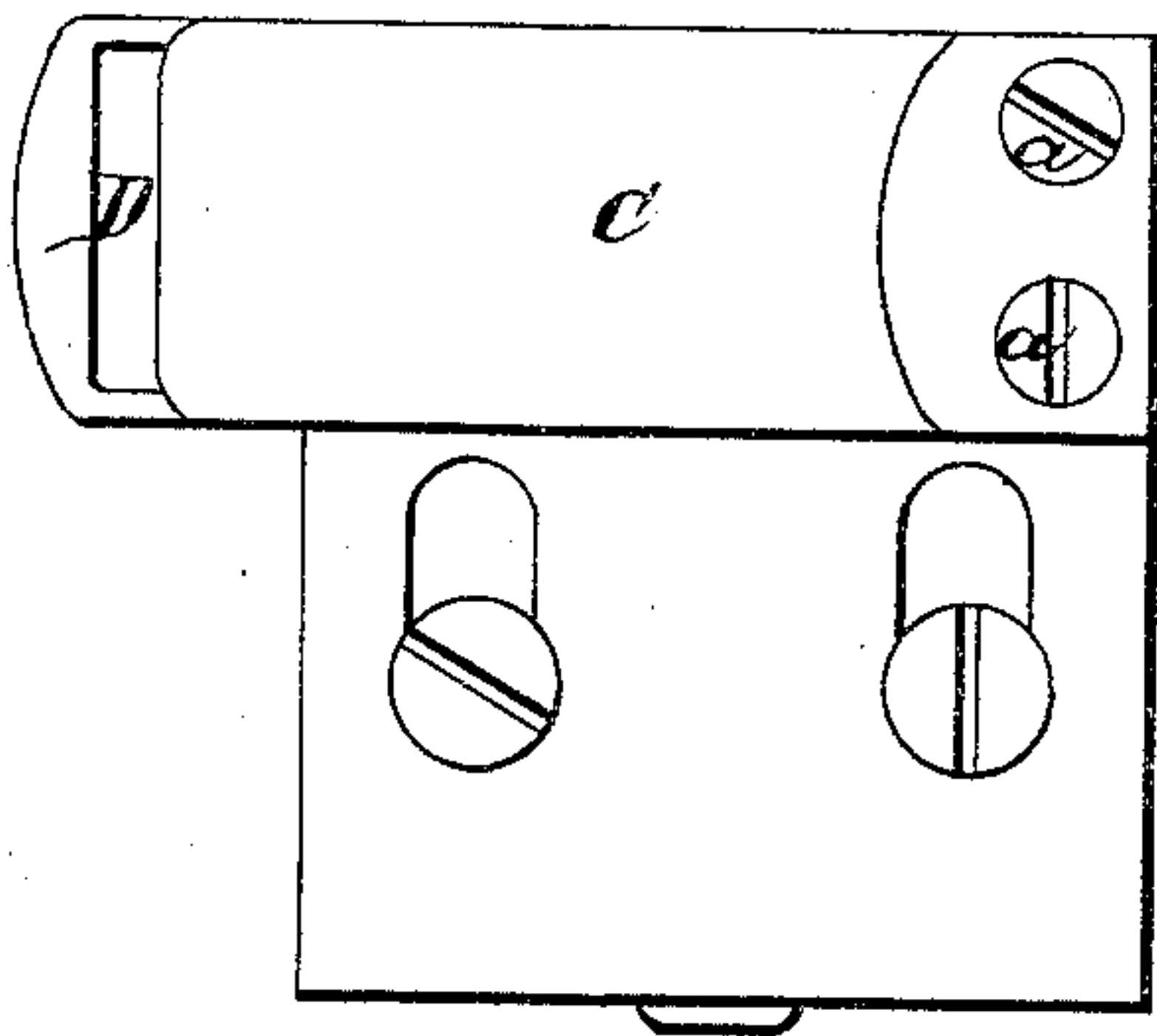


Fig: 2.

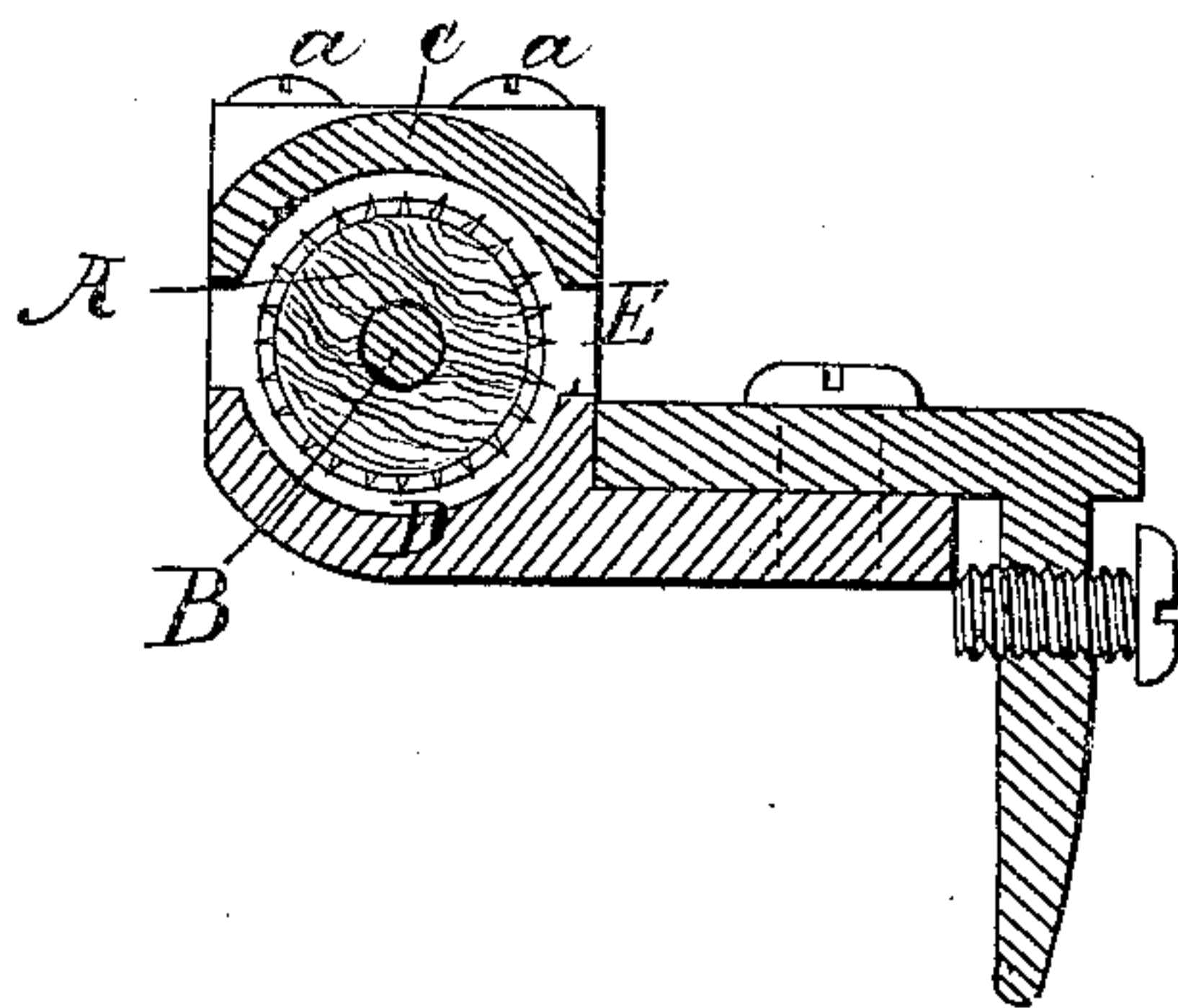
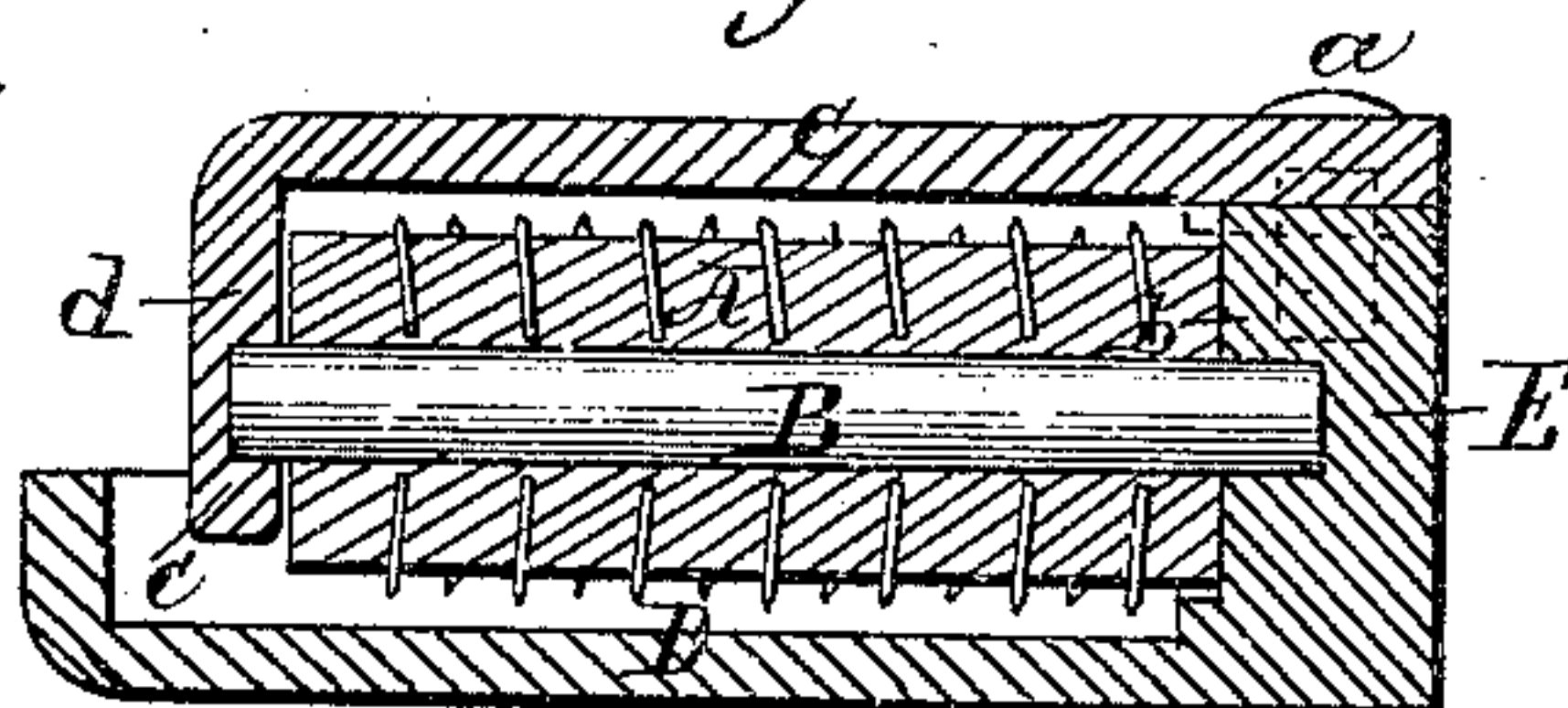


Fig: 3.



Witnesses;
S. N. Piper.
J. R. Snow

Inventor;
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Per R. W. Hodge Atty

United States Patent Office.

WARREN W. DUTCHER, OF HOPEDALE, MASSACHUSETTS.

Letters Patent No. 78,441, dated June 2, 1868.

IMPROVEMENT IN TEMPLES FOR LOOMS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL PERSONS TO WHOM THESE PRESENTS MAY COME:

Be it known that I, WARREN W. DUTCHER, of Hopedale, in the county of Worcester, and State of Massachusetts, have made a new and useful Invention or Improvement having Reference to Roller Temples for weaving cloth; and I do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a top view, and

Figures 2 and 3 are sections of one of my improved temples, the second of such sections being through and in line of the axis of the toothed roller of the temple.

The mode heretofore adopted for fastening the roller-spindle in place has been by a screw, cut either on its inner end or next to its head, such being as shown in Letters Patent, No. 37,954, bearing date the 24th day of March, 1863, and No. 53,423, bearing date the 27th day of March, 1866, both of such patents having been granted to me.

In practice, it has been found that the screw is liable to and does occasionally work loose or unscrew, so as to allow the toothed roller to be borne up by the cloth, and revolved against the cap, in which case the points or teeth of the roller are almost sure to be dulled or injured to such an extent as to either seriously impair the efficiency of the roller or render it useless, and require another to be substituted for it. Besides occasioning the loss of a roller, the accident is often attended with other and greater losses, such as injury to the cloth, and expenditure of time and labor necessary to the stoppage of the loom, and the substitution of a new or perfect roller in the temple-trough.

The object of my present improvement is to render the roller-spindle or axle so fixed that its position is not dependent on a screw cut on such spindle, but is insured by other means.

To accomplish this, I form in the standard of the trough, and in the closed inner end of the cap, sockets, closed at their outer ends, to receive the spindle at its two ends, and hold it firmly in place, when the cap is fastened to the standard by the screws employed to confine the two together.

In the drawings, A denotes the toothed roller, and B the spindle thereof; the latter, in this case, being a short rod or piece of cylindrical wire, of the proper diameter and length.

D is the trough, and C the cap thereof, the latter being fastened by screws *a a* to a standard, E, erected on the outer edge of the trough.

In the inner side of the said standard is a socket, *b*, which opens only toward the trough. There is also such a socket, *c*, made in the inner end or part, *d*, of the cap. The axes of both these sockets are to be in line with that of the toothed roller, and into these sockets the two ends of the spindle B are to be placed, the distance between the mouths of each of the two sockets and the base of the other being less than the length of the spindle, in order that the spindle may not fall out of the sockets.

I prefer, however, to have the distance between the bases of the sockets equal to the length of the spindle, as in that case, the spindle, when in the sockets, can have no endwise motion.

I would remark that I make no claim to constructing the temple-trough standard, and the inner end part of the cap, with holes going through them, as it is usual to make them to receive a spindle, to be screwed into either of such holes.

What I claim as my present improvement, is—

The temple, constructed substantially as described, the trough-standard, and the inner end of the overhanging cap, being provided with sockets, closed at their outer ends, such sockets being to receive and hold the roller-spindle in place, in manner as set forth.

WARREN W. DUTCHER.

Witnesses:

R. H. EDDY,

F. P. HALE, Jr.