

(No Model.)

M. P. WHEELER.

NUT LOCK.

No. 343,285.

Patented June 8, 1886.

Fig. 1.

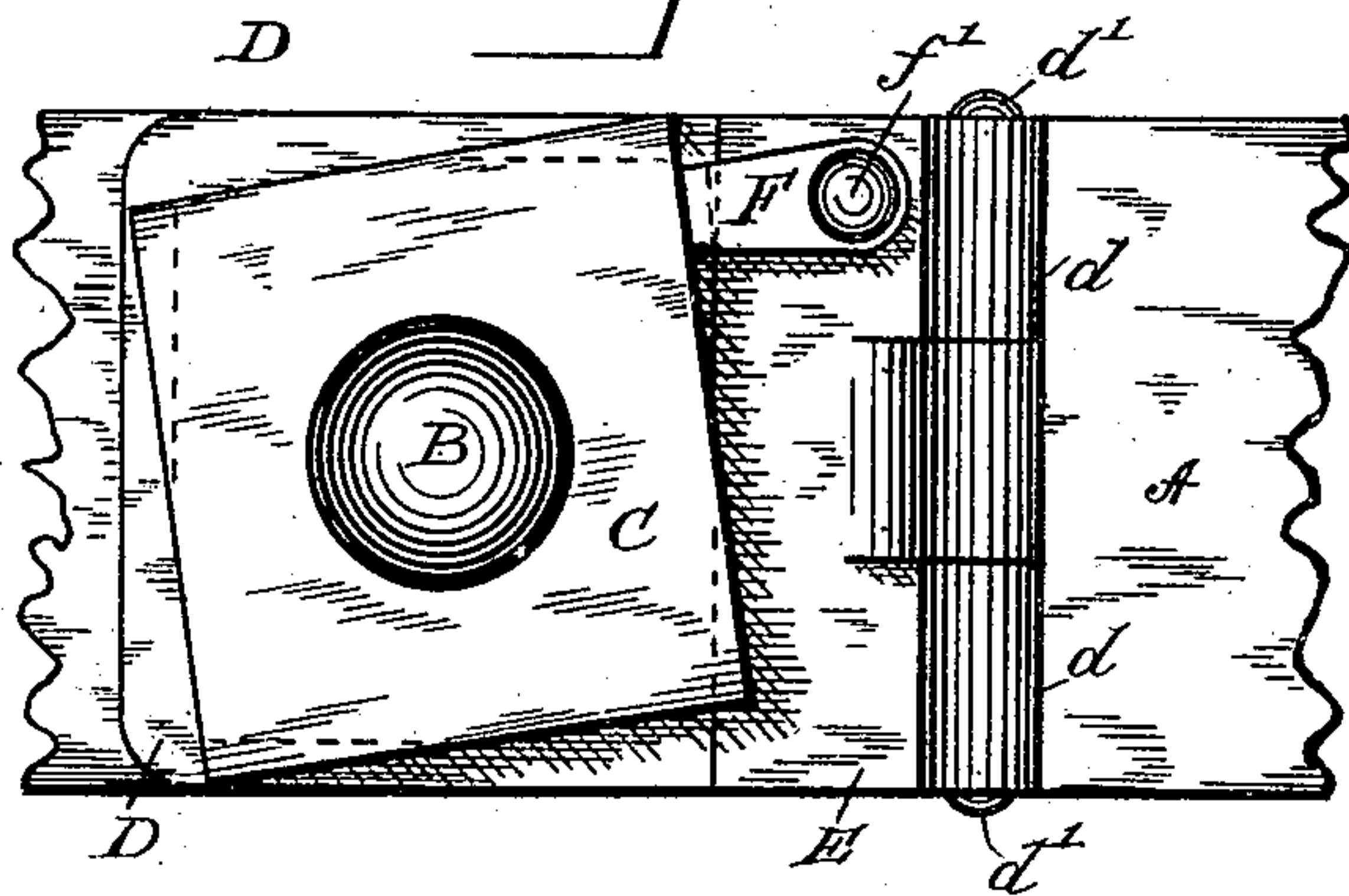


Fig. 3.

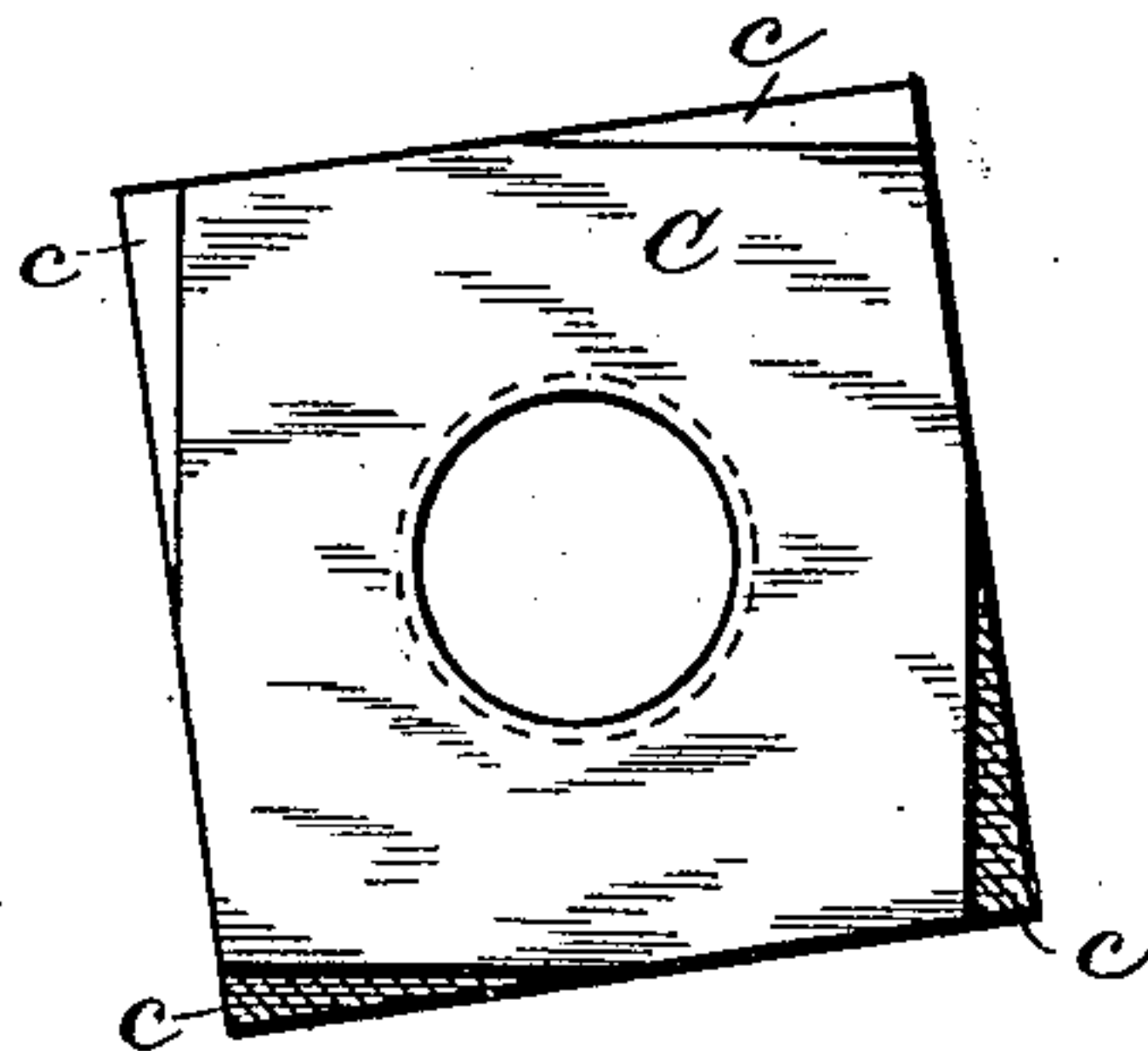


Fig. 4.

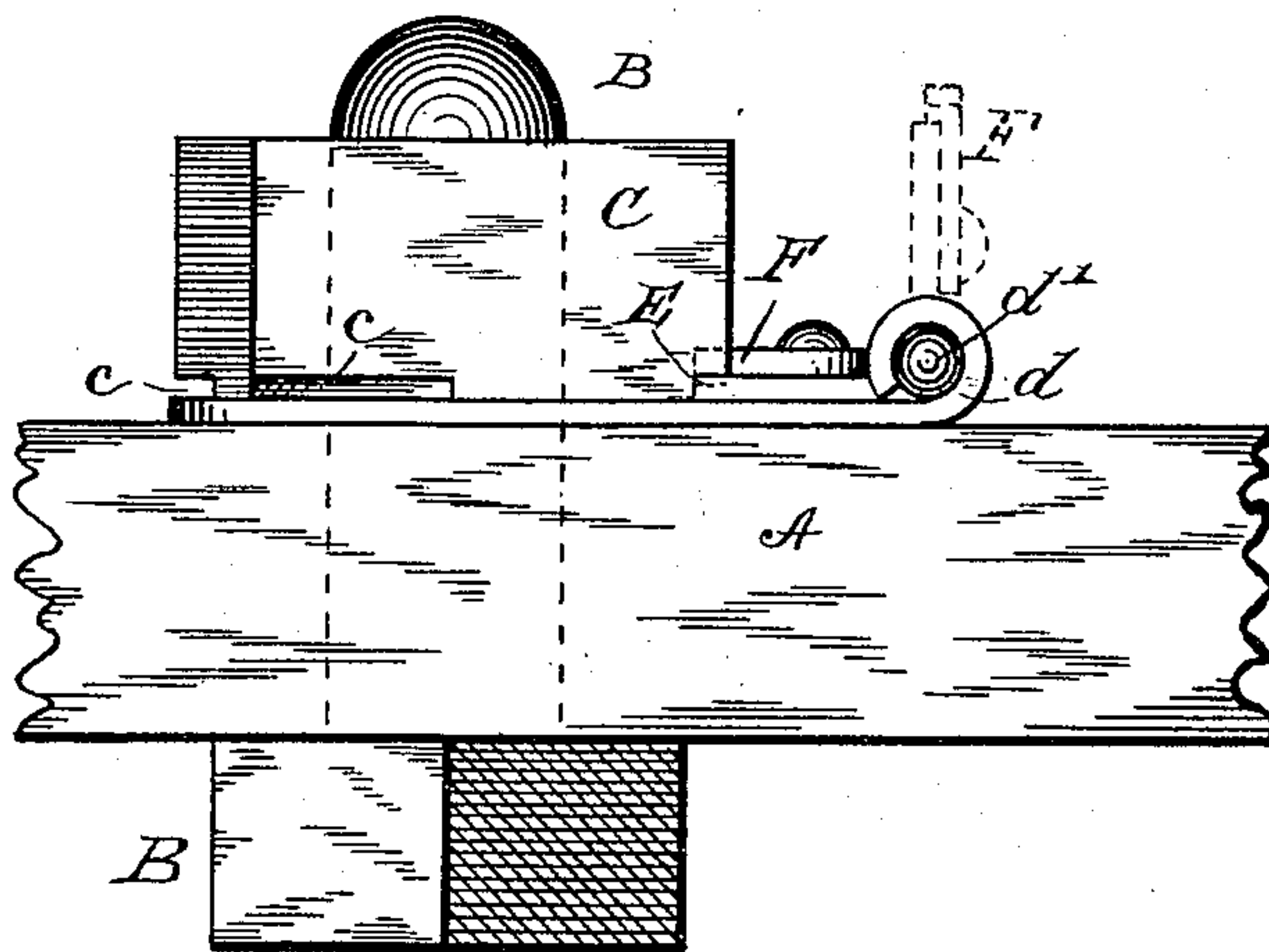
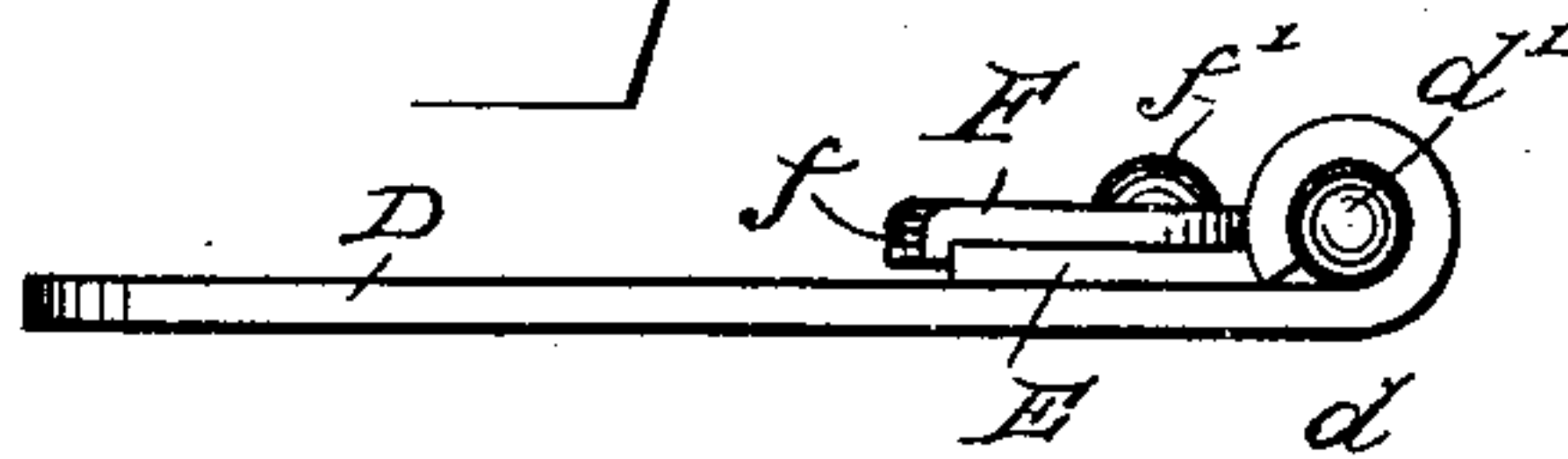


Fig. 2.

WITNESSES

John C. Miller,
Percy White.

INVENTOR

Merritt P. Wheeler
by F. E. Fitzgerald
Attorney

UNITED STATES PATENT OFFICE.

MERRITT P. WHEELER, OF WINNEBAGO AGENCY, NEBRASKA.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 343,285, dated June 8, 1886.

Application filed March 27, 1886. Serial No. 196,775. (No model.)

To all whom it may concern:

Be it known that I, MERRITT P. WHEELER, a citizen of the United States of America, residing at Winnebago Agency, in the county of Dakota and State of Nebraska, have invented certain new and useful Improvements in Nut-Locks, of which the following is a specification, reference being had therein to the accompanying drawings.

10 The object of this improvement is a device for securely locking nuts on bolts, that can be conveniently and quickly adjusted for tightening or removing the nuts and bolts as occasion may require. These results are attainable by the mechanism illustrated in the drawings
15 herewith filed as part hereof, in which the same letters of reference denote the same parts in the different views.

20 Figure 1 is a plan view of a nut-lock embodying the features of my improvement. Fig. 2 is a side elevation of the same. Fig. 3 is a representation of the nut inverted. Fig. 4 is a side view of one of the parts detached.

25 A represents a part of a machine or other object to which the bolt may be attached.

B is the bolt.

C is the nut, having its lower side diagonally cut away at its corners, as shown at *c*.

D is an oblong washer provided with eyes *d*.

30 E is a plate hinged to the washer D by a pin-
tle, *d'*. The hinged plate E has a straight end or edge, and is extended from the washer-eyes *d* sufficiently to exactly meet the side of the nut when it is in a position on the bolt to be
35 square with the washer D.

F is a key pivotally secured to the plate E by a rivet or otherwise, as shown at *f'*. The key F is provided at its end with a downflange, *f*, slightly extended below the top edge of the
40 plate E, for a purpose hereinafter set forth.

45 In the application of the device the bolt is set through the washer, the hinged plate of which is first given an elevated position to clear the nut, as indicated by the dotted profile lines in Fig. 2. The nut is then applied to the bolt and screwed tight against the ob-

ject on which the bolt is used, with its side nearest the plate E square with the edge of the latter when in the position shown in Fig. 4. The plate E is then lowered and the nut 5 turned back until its corner projects over and its diagonally-cut part engages with the edge of the plate E. The hinged key F is then adjusted in a circular direction until its flanged end *f* drops or springs over the edge of the 5 plate E and between the same and the side of the nut, as shown. The nut will thus be secured against movement in either direction. When necessary to change or remove the nut, the key F may be sprung out of the position 6 shown, and moved away from the side of the nut, when the latter may be turned on the bolt until its side is parallel with the edge of the plate E, which may then be set in the position indicated by the dotted profile lines in 6 Fig. 2, and the bolt and nut controlled as desired.

I am aware that washers provided with a pivoted latch for locking nuts on bolts have been invented heretofore, also nuts with the 7 underface cut away at the corners, and adapted to be set over the edge of bent and recessed washers, and thereby locked against movement in one direction. I therefore do not broadly claim such features; but

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

The combination of the washer provided with a plate hinged thereto, as shown, and having an adjustable key, the bolt, and the 8 nut having its under face cut away at the corners, and thereby adapted to be set over the end of the hinged plate and locked against movement in either direction by the hinged plate and key fixed thereto, as set forth.

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

MERRITT P. WHEELER.

Witnesses:

R. S. HART,
A. E. SMITH.