

(No Model.)

J. HAYES.

NUT LOCK.

No. 330,237.

Patented Nov. 10, 1885.

Fig. 1.

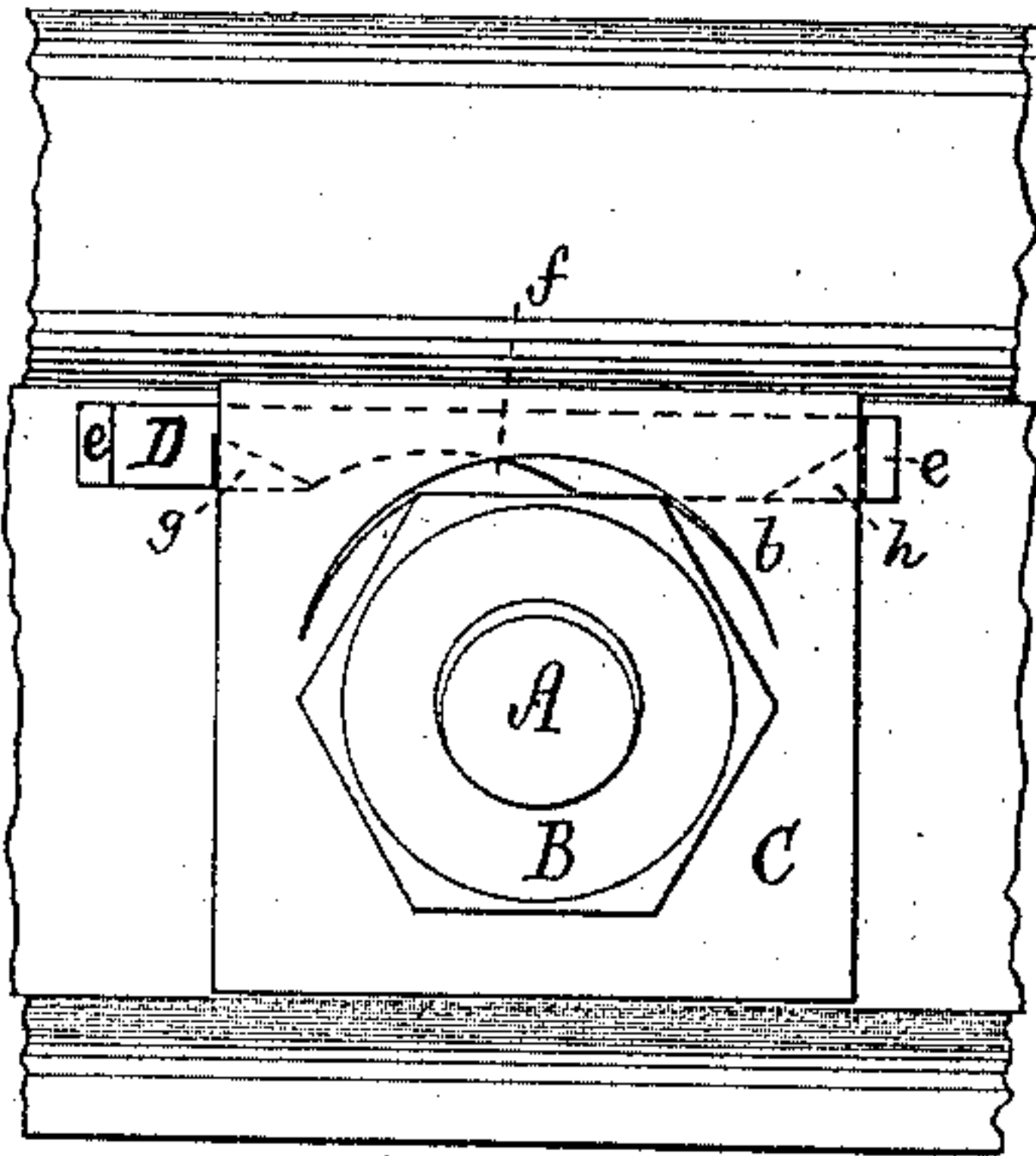


Fig. 2.

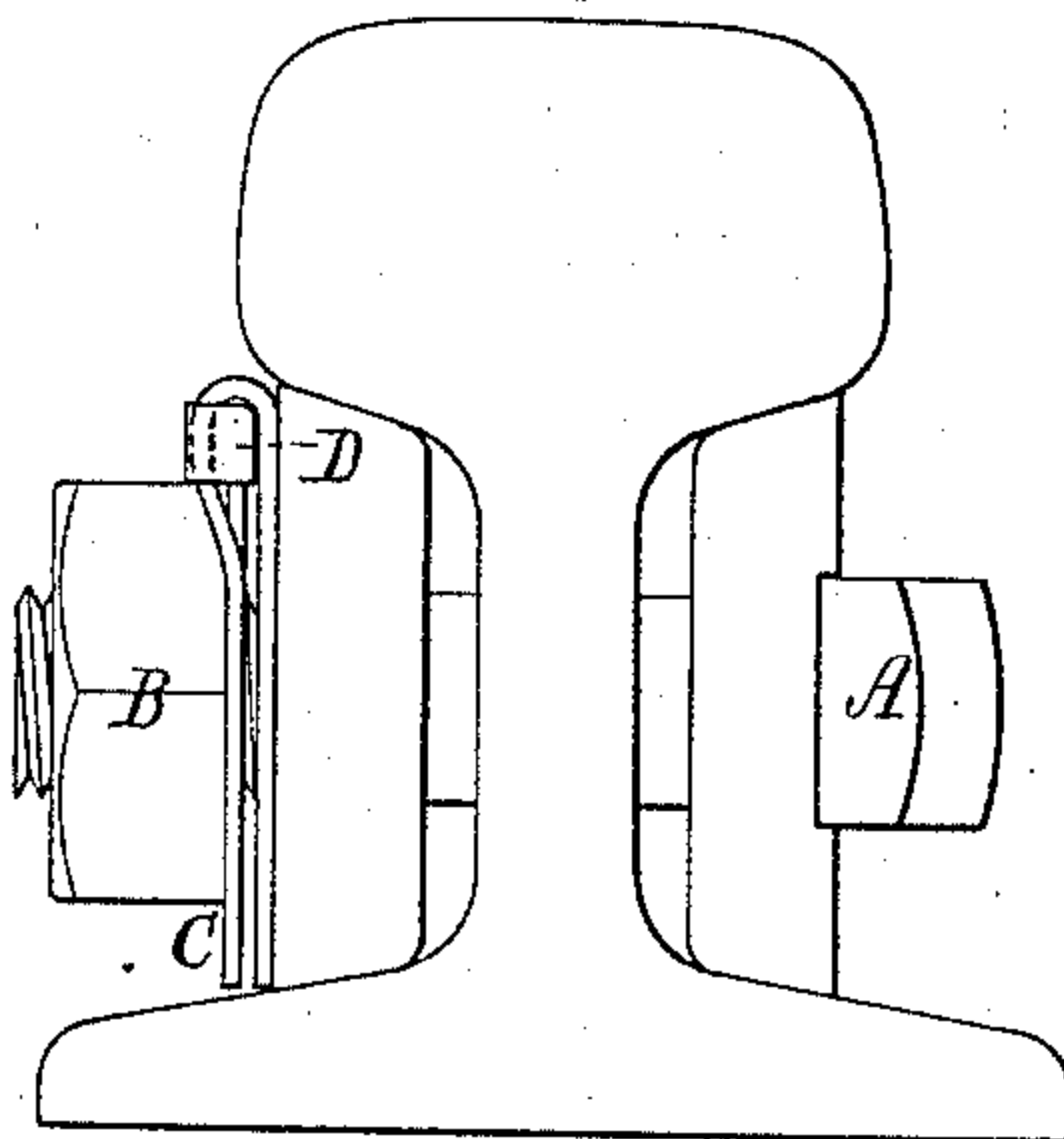


Fig. 3.

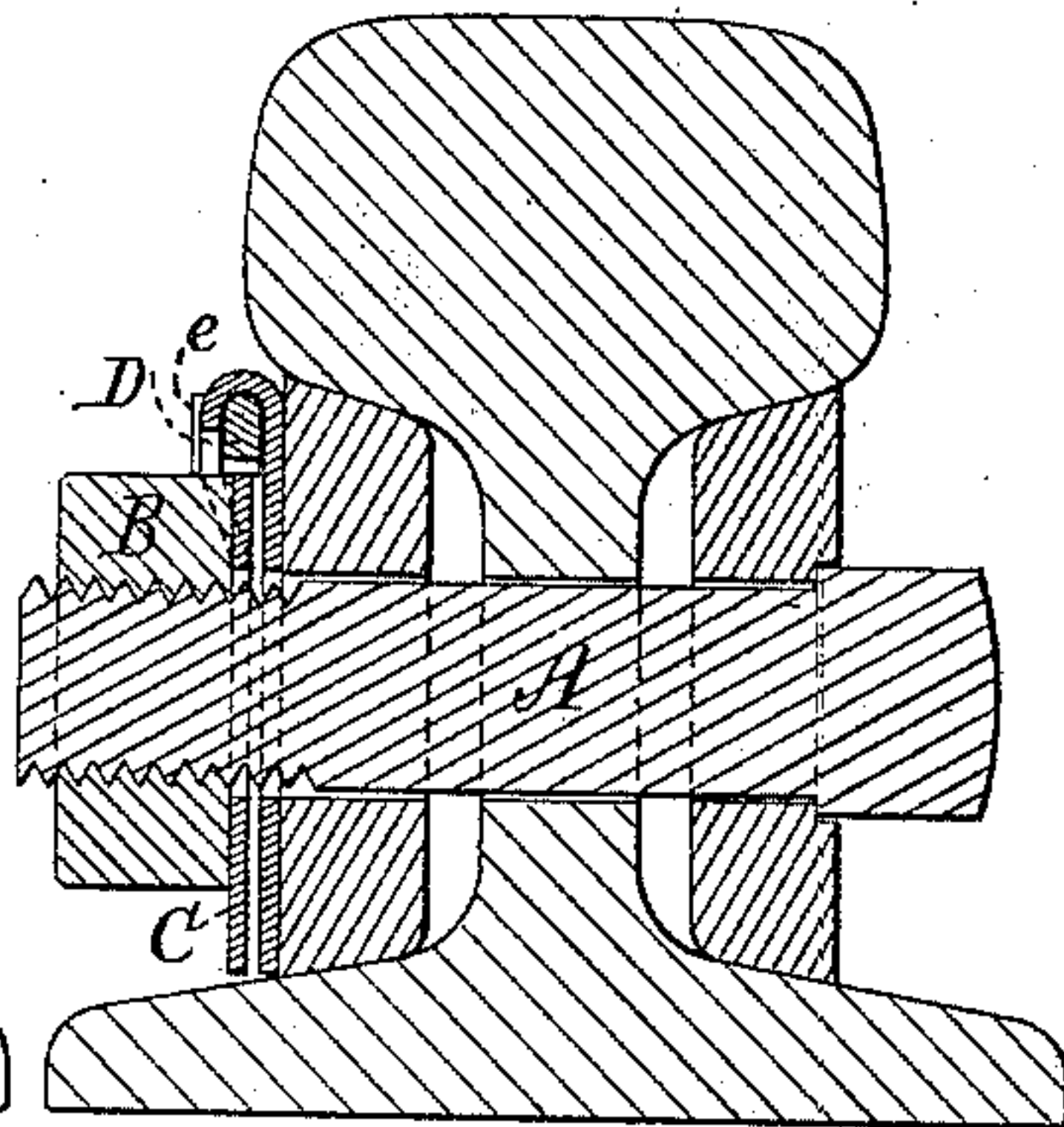


Fig. 6.

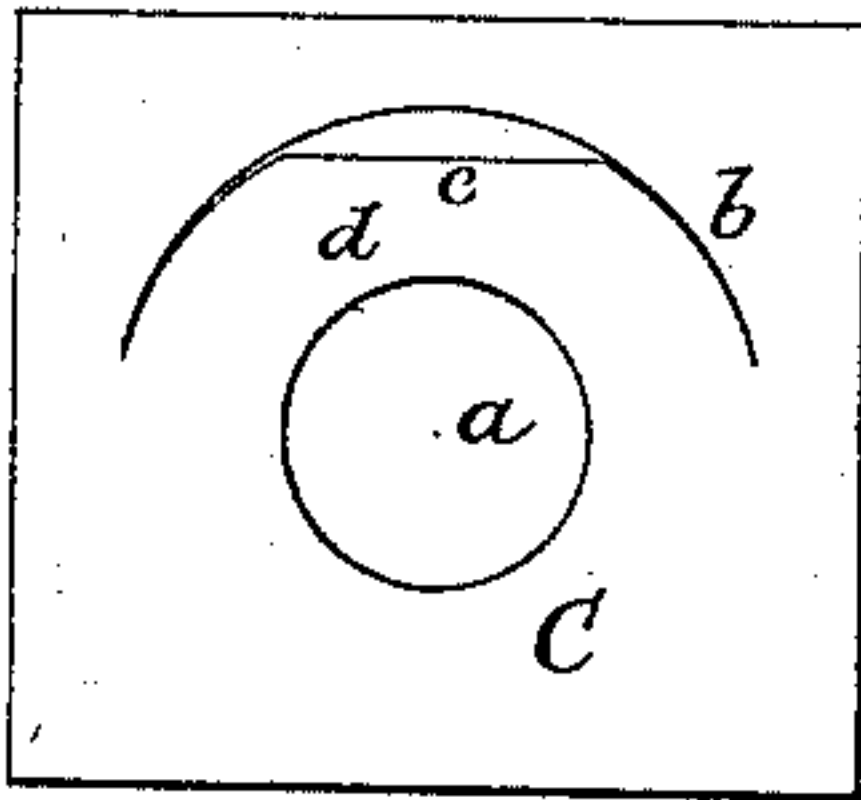


Fig. 7.

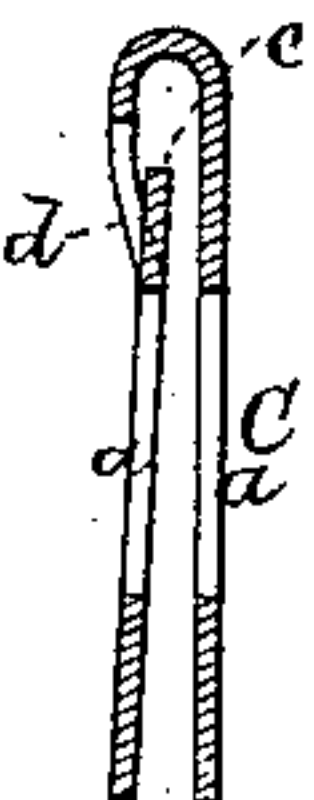


Fig. 4.

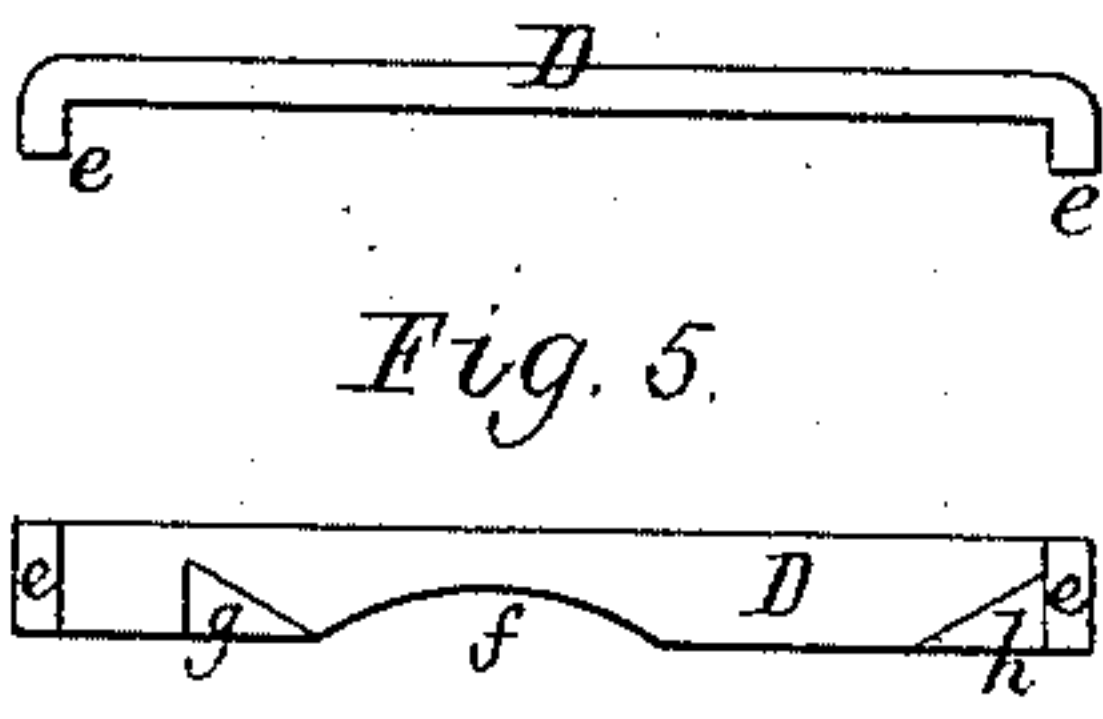


Fig. 5.

Fig. 9.

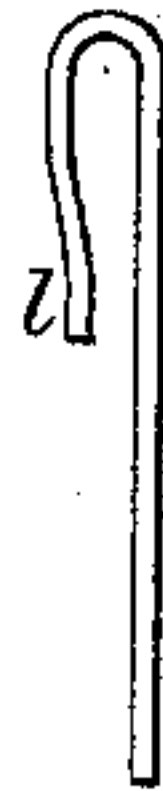


Fig. 8.

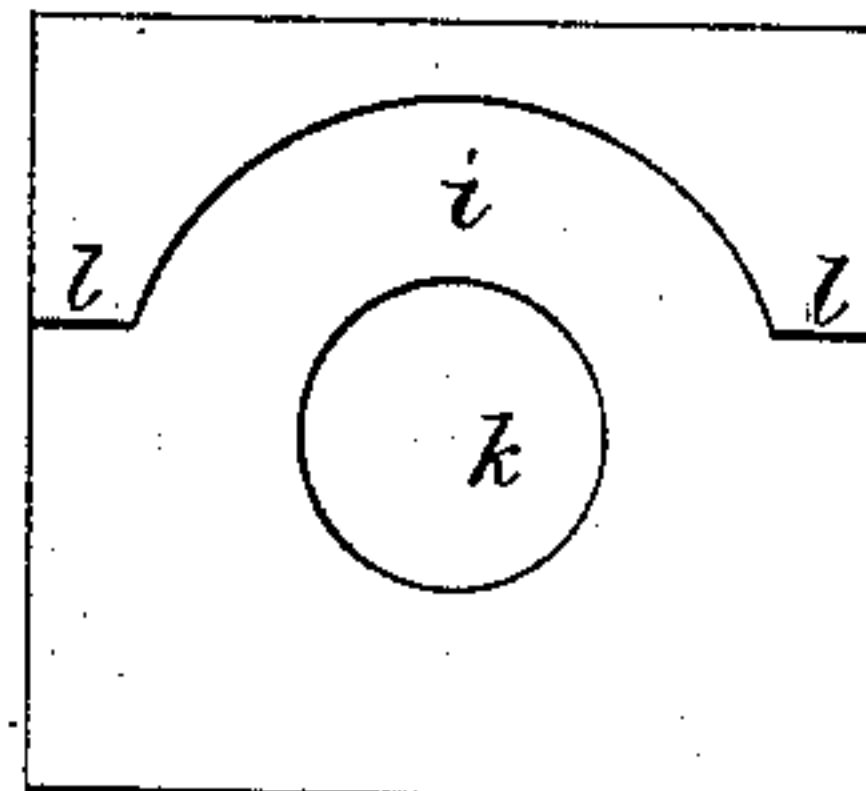
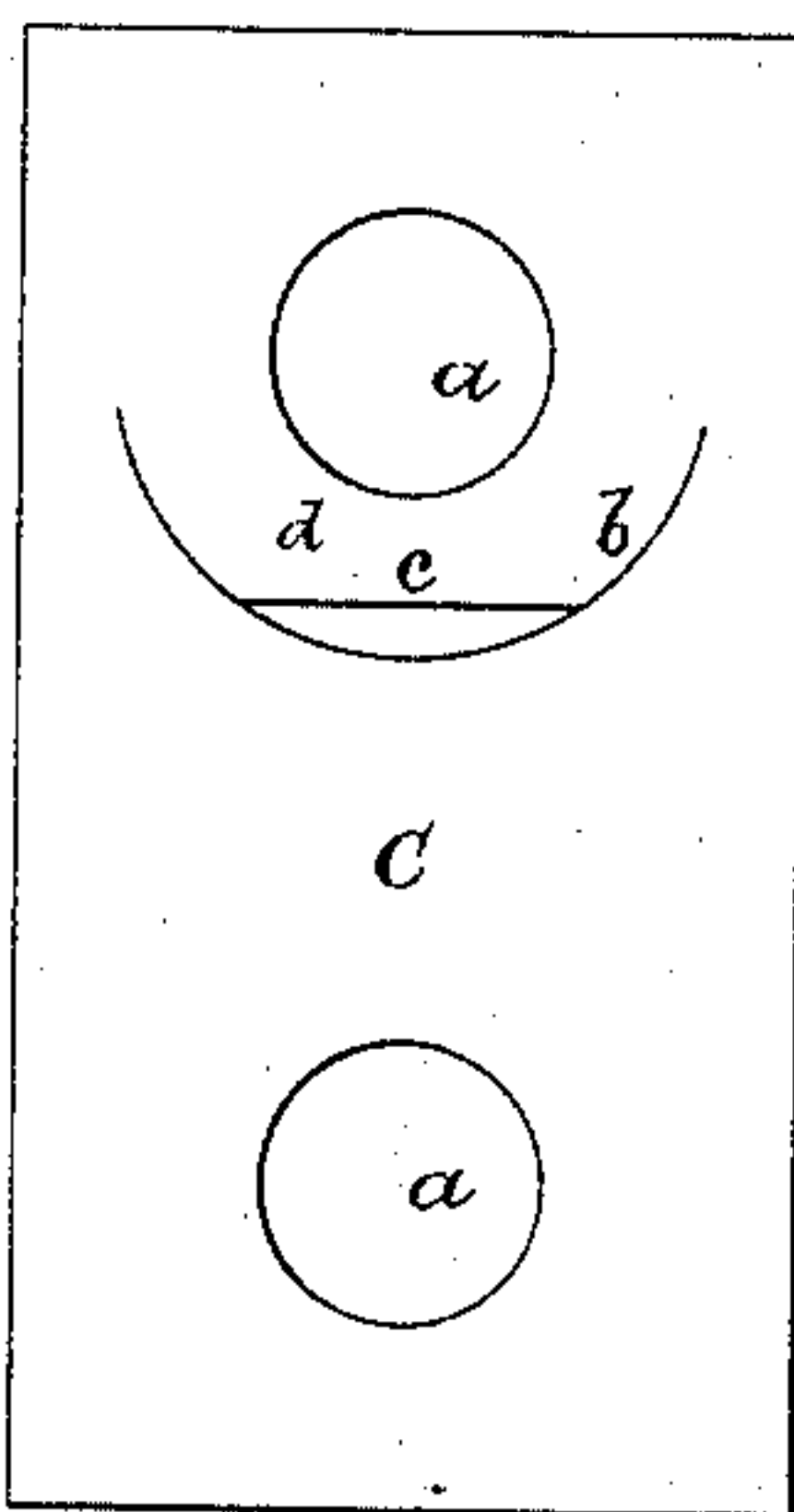


Fig. 10.



Witnesses

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UNITED STATES PATENT OFFICE.

JOSEPH HAYES, OF DOVER, NEW HAMPSHIRE, ASSIGNOR, BY MESNE ASSIGNMENTS, TO HIMSELF AND GEORGE S. FROST, OF SAME PLACE.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 330,237, dated November 10, 1885.

Application filed September 19, 1885. Serial No. 177,546. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH HAYES, of Dover, in the county of Strafford, of the State of New Hampshire, have invented a new and useful Improvement in Nut-Locks; and I do hereby declare the same to be described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a front elevation, Fig. 2 an end view, and Fig. 3 a vertical and median section, of a nut-lock containing my invention, the nature of which is defined in the claims hereinafter presented. Fig. 4 is a top view, and Fig. 5 a side view, of the key of such lock. Fig. 6 is a front view, and Fig. 7 a transverse section, of one form of the clasp of such lock, while Fig. 8 is a front view, and Fig. 9 an end view, of another form of the clasp. Fig. 10 is a view of the clasp shown in Fig. 6 before it is folded at its middle.

The said nut-lock is designed to be affixed to the fish-plates of two railway-rails, the screw-bolt going through them and the clasp of the nut-lock, and such clasp at its lower edge being in contact with the bottom flange of the rail or that of the fish-plate, whereby it is prevented from revolving on the bolt.

In the drawings, A denotes the screw-bolt, and B its nut, the shank of the bolt going through the clasp C. The said clasp (shown in Figs. 1, 2, 3, and 10) consists of a rectangular plate, one half of which is folded at the middle of the plate over the other half, a hole, *a*, for reception of the shank of the bolt being made through each half. In the front half of the clasp there is an arcal slit, *b*, which is above and concentric with the hole *a*. The segment of such slit is pressed in or downward against the rear half of the clasp, and is truncated in its upper part, as shown at *c*. A key, D, is arranged in the upper part of the clasp, and between its two holders, and directly over and resting upon the top of the truncated segment *d*. This key slides lengthwise of it in the clasp, and is flanged at each end, as shown at

e, to limit the movement of the key either way. Furthermore, the key at its middle has in it a segmental notch, *f*, as shown, whose radius corresponds to that of the slit *b*. It also has two beveled notches, *g h*, arranged in it, as represented.

On the nut being screwed hard up against the clasp, so as to bring one side of such nut level with the straight portion of the top of the truncated segment, (the arcal slit having a radius a little greater than the extreme radius of the nut,) the key can be moved in the clasp, so as to project over the upper face of the nut in a manner to prevent the nut from revolving on the screw, it being understood that the key is thicker than the plate of which the clasp is made. On the key being thus on the nut, the first half or part of the clasp is to be hammered down, so as to enter the notches *g* and *h*, and thereby hold the key from slipping back from locking the nut.

The clasp when formed as shown in Figs. 8 and 9—viz., as folded near its upper edge, and having an arcal recess, *i*, in it, as shown, concentric with the bolt-hole *k*—can be used with the key and the bolt and nut, the parts being forced into the notches of the key to hold such key from being accidentally set or moved back.

I claim—

1. The nut-lock, substantially as described, consisting of the key provided with the end flanges and segmental and beveled notches, arranged as set forth, and of the clasp folded and notched, and having the bolt-receiving hole or holes, as represented, such key being arranged in the clasp and to operate with the nut, essentially as set forth.

2. The clasp folded and having the bolt-holes, arcal slit, and truncated segment, arranged as set forth.

JOSEPH HAYES.

Witnesses:

JOHN H. GRIFFIN,
JOHN H. DAME.