

J. P. WILSON.  
Nut-Lock.

No. 223,622.

Patented Jan. 13, 1880.

Fig. 1.

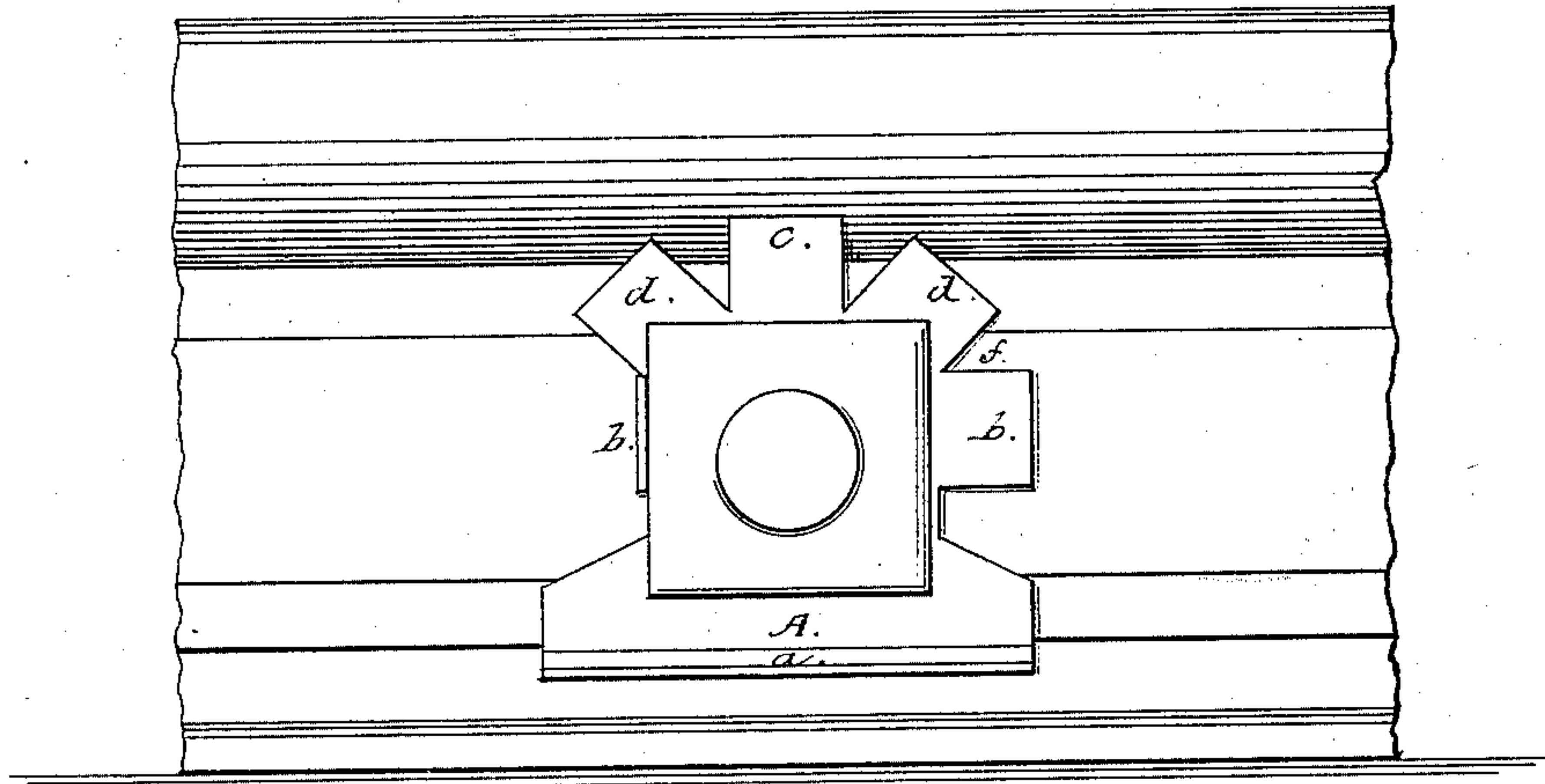


Fig. 2.

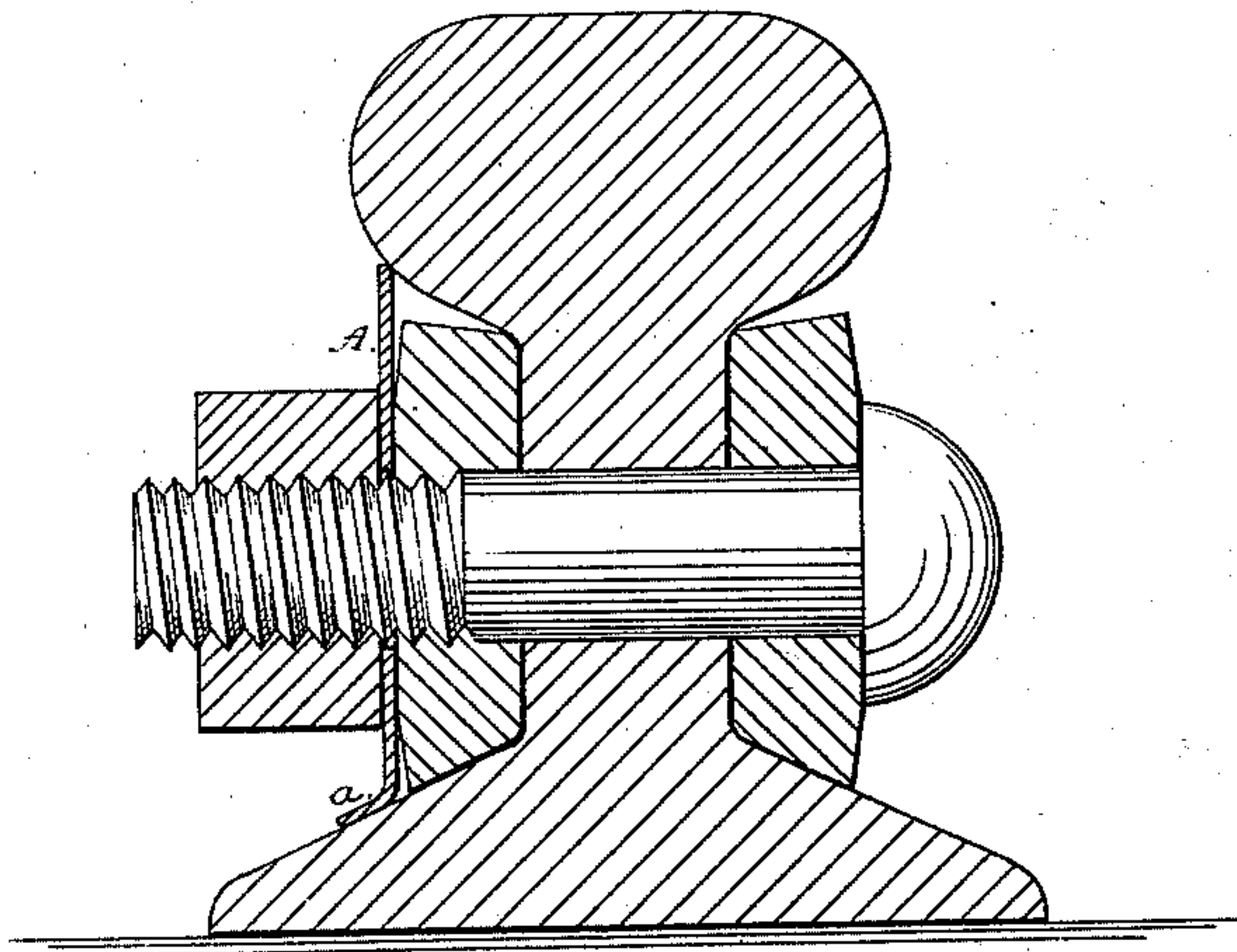
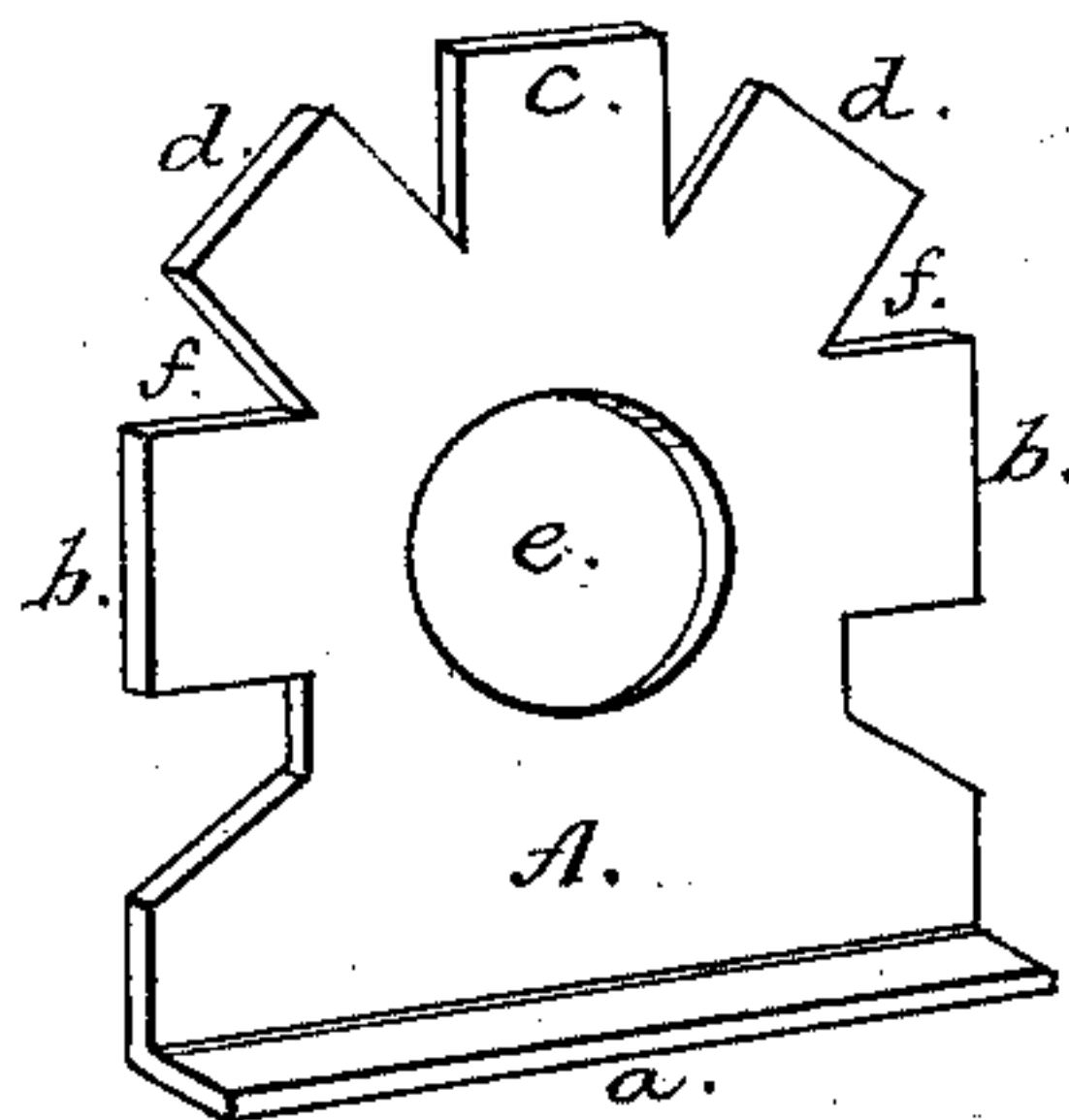


Fig. 3.



Attest:

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# UNITED STATES PATENT OFFICE.

JOSEPH P. WILSON, OF MINNEAPOLIS, MINNESOTA.

## NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 223,622, dated January 13, 1880.

Application filed August 30, 1879.

*To all whom it may concern :*

Be it known that I, JOSEPH PATTEN WILSON, of Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain  
5 new and useful Improvements in Nut-Locks, of which the following is a specification.

The object I have in view is to produce a lock for the nuts on the fish-bolts of railroad-rails which will be simple and inexpensive in  
10 construction, can be easily and quickly applied, and will securely hold the nuts from turning, the construction and manner of applying the locking device being such that it can be stamped complete from very light sheet metal, and will  
15 be strong and secure.

My invention therein consists in a plate for holding a single nut, having a hole punched through it, so that it can be set over the end of the bolt between the nut and the fish-plates,  
20 and having its lower edge turned outwardly to give a broad bearing upon the rail-flange, and provided with radial tongues, situated at the sides of the plate on top of such plate and at intermediate points, so that by bending out  
25 such tongues the nut can be held when its sides are parallel and perpendicular with the tread of the rail, or when they are oblique to the plane of the tread, such tongues being separated by angular or V-shaped slots, so that  
30 they can be readily bent and the plate can be stamped out complete, all as fully hereinafter explained.

In the accompanying drawings, forming a part hereof, Figure 1 is a side elevation of a  
35 portion of a rail and fish-plates, showing a single nut held by my improved locking device; Fig. 2, a cross-section of the same parts, and Fig. 3 a separate view in perspective of the locking-plate.

40 Like letters denote corresponding parts.

A is the locking-plate, stamped at one operation from thin sheet metal. It is of nearly semicircular form in outline, and has a straight

solid lower edge, *a*, as shown, which is much stronger than if such edge were cut away at  
45 the center to form side legs. This edge *a* is turned outwardly to fit and rest upon the beveled upper surface of the flanged base of the rail. Above the foot of the locking-plate it is cut away on each side, and above these cut-  
50 away portions is provided with side tongues, *b*, a top tongue, *c*, and intermediate tongues, *d*. All these tongues project from the plate on lines radial to the center of the bolt-hole *e*, which is punched through the center of the  
55 plate, the tongues *b* projecting horizontally, the tongues *c* vertically, and the tongues *d* at an angle of about forty-five degrees, (45°.)

The tongues *b c d* have parallel sides and are separated by angular or V-shaped slots or  
60 cut-away portions *f*, so that such tongues can be easily bent up without interfering with each other, and the plate can be stamped out complete, which is not the case where the divisions between such tongues are slits, which  
65 have to be cut with shears.

The use of the improved locking-plate is apparent from the drawings.

When the nut is in the position shown one or more of the tongues *b c* can be bent out  
70 against its sides. When turned half way—that is, with a corner upward—one or both of the tongues *d* can be used.

What I claim as my invention is—

The plate A, for locking single nuts, having  
75 straight out-turned lower edge, *a*, bolt-hole *e*, and horizontal, vertical, and oblique radial tongues *b c d*, separated by angular slots, substantially as described and shown.

This specification signed and witnessed this  
80 14th day of July, 1879.

JOSEPH PATTEN WILSON.

Witnesses:

IDA M. WILSON,  
EDITH B. WILSON.