

No. 644,307.

Patented Feb. 27, 1900.

E. WATKINS & C. COLTERYAHN.

NUT LOCK.

(Application filed Sept. 15, 1899.)

(No Model.)

Fig. 1.

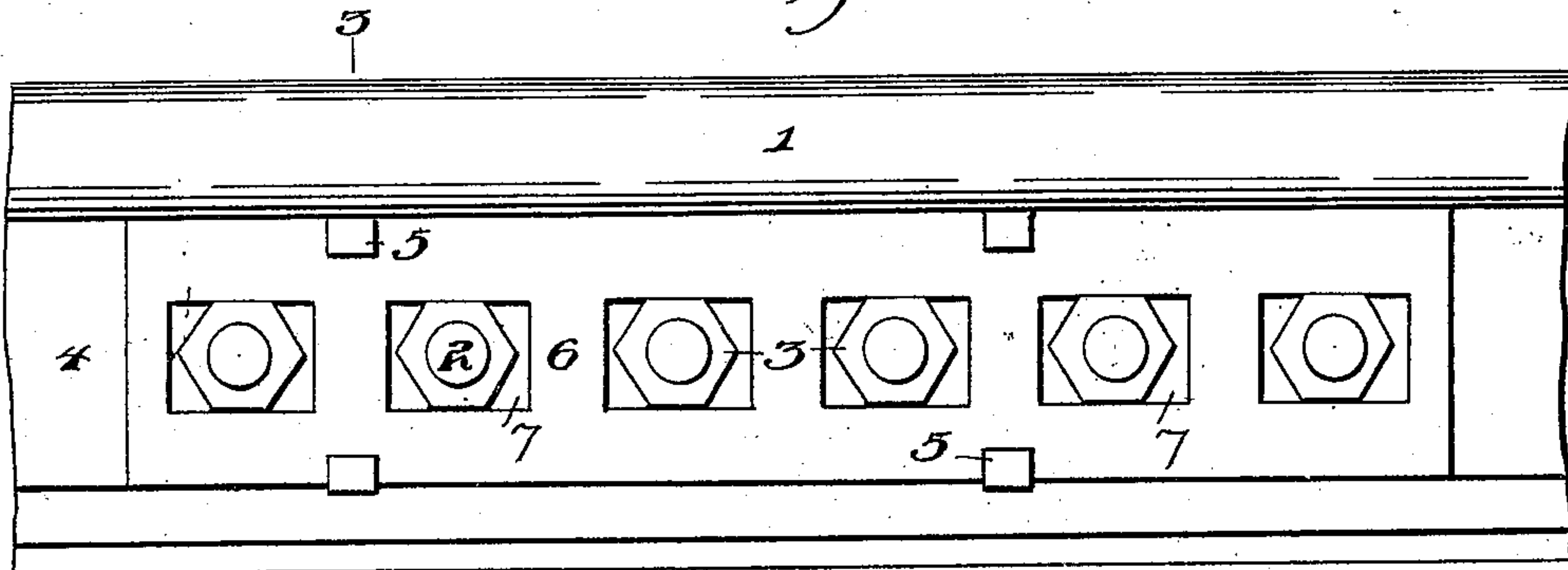


Fig. 2.

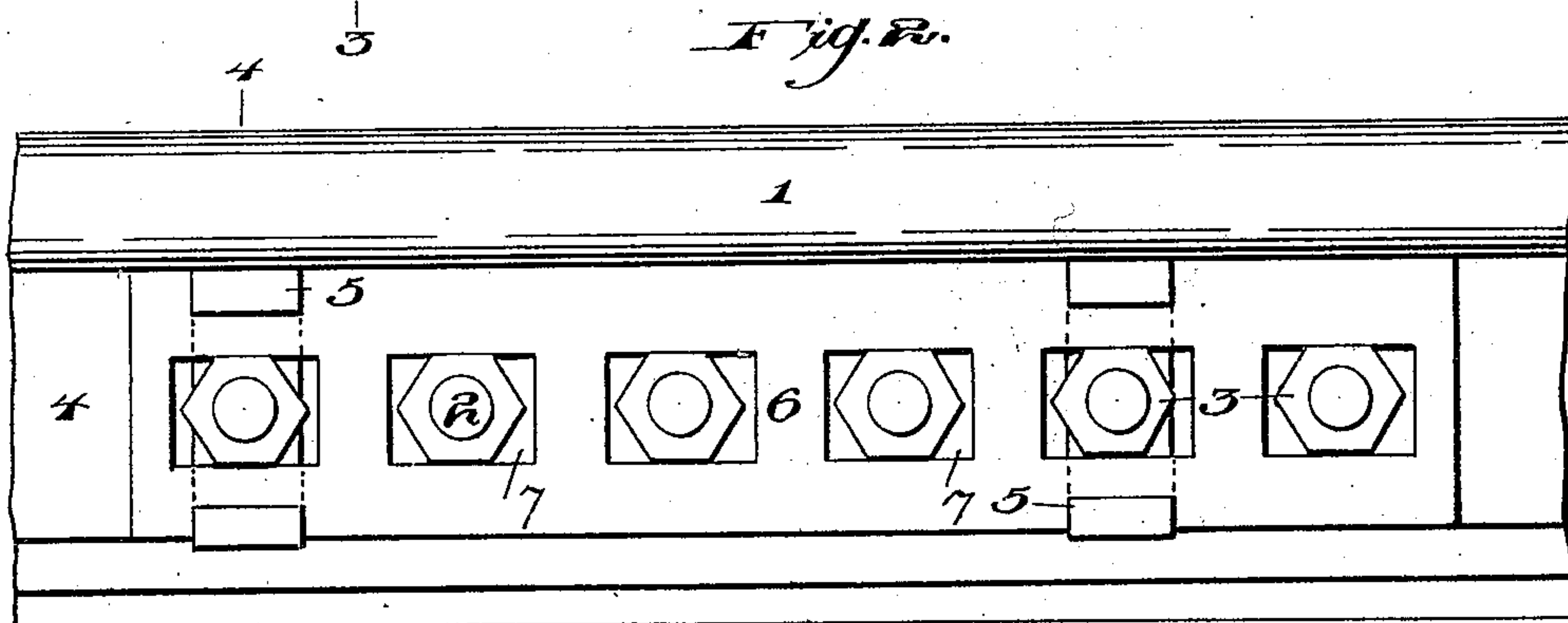


Fig. 3.

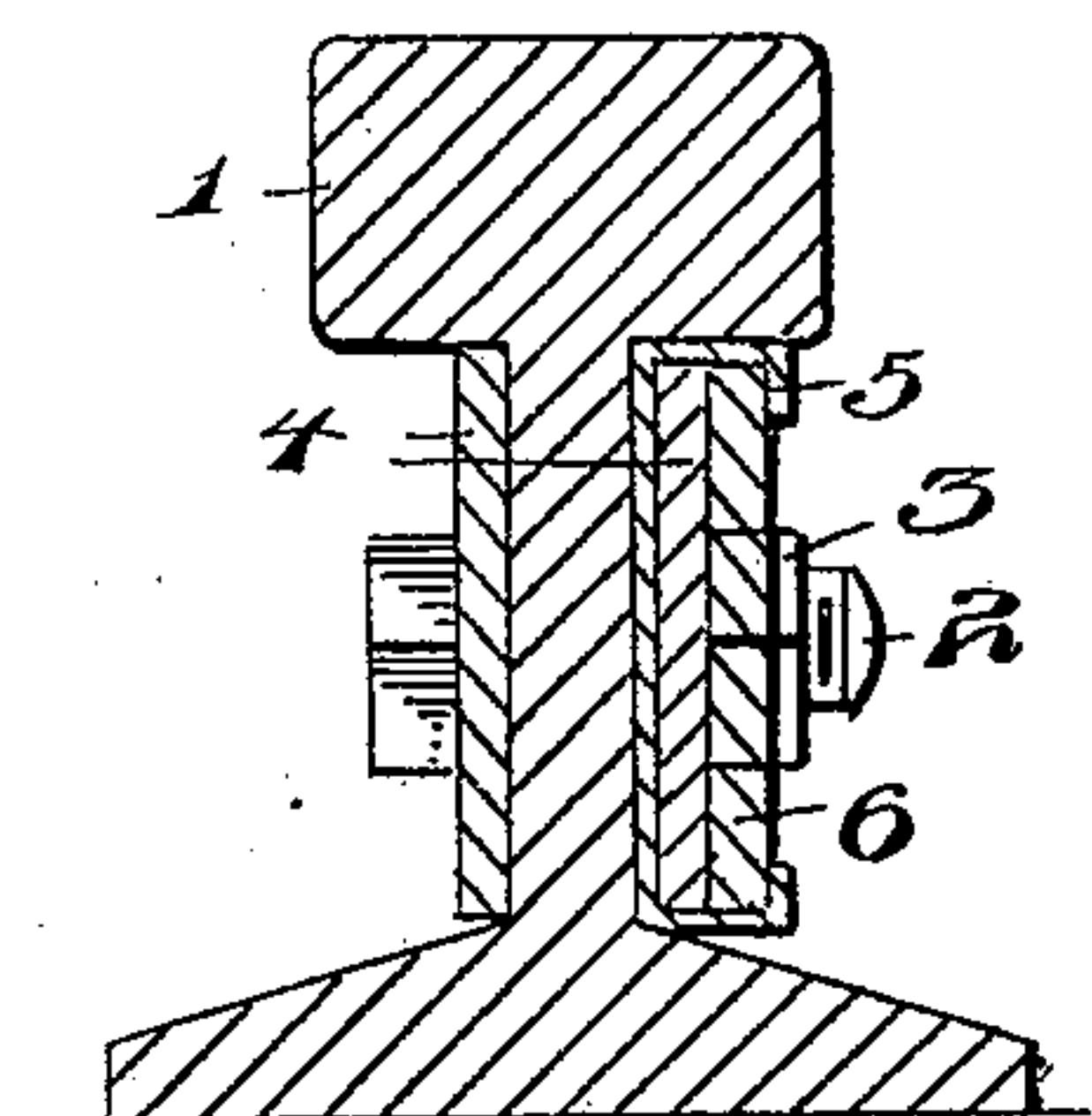


Fig. 4.

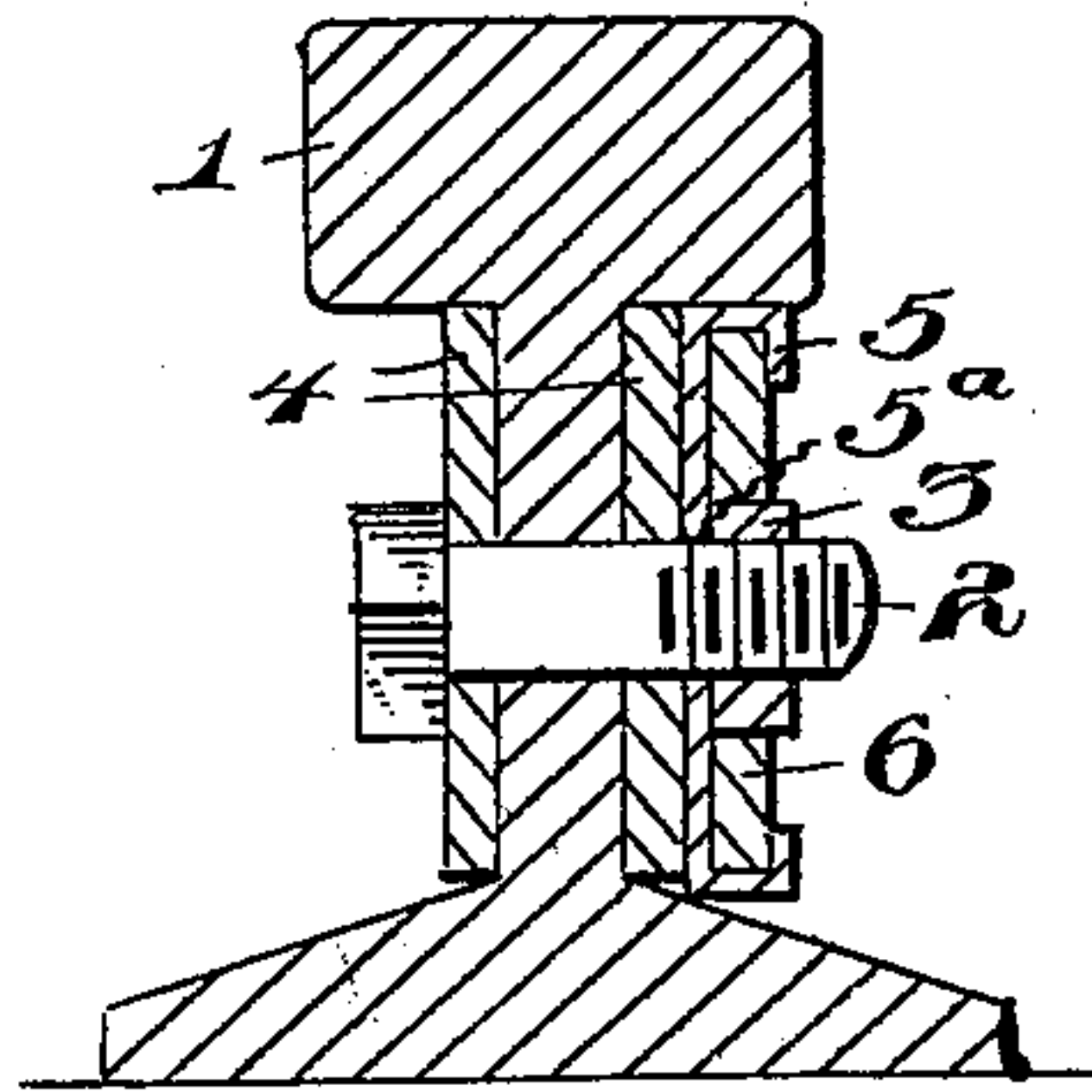


Fig. 5.

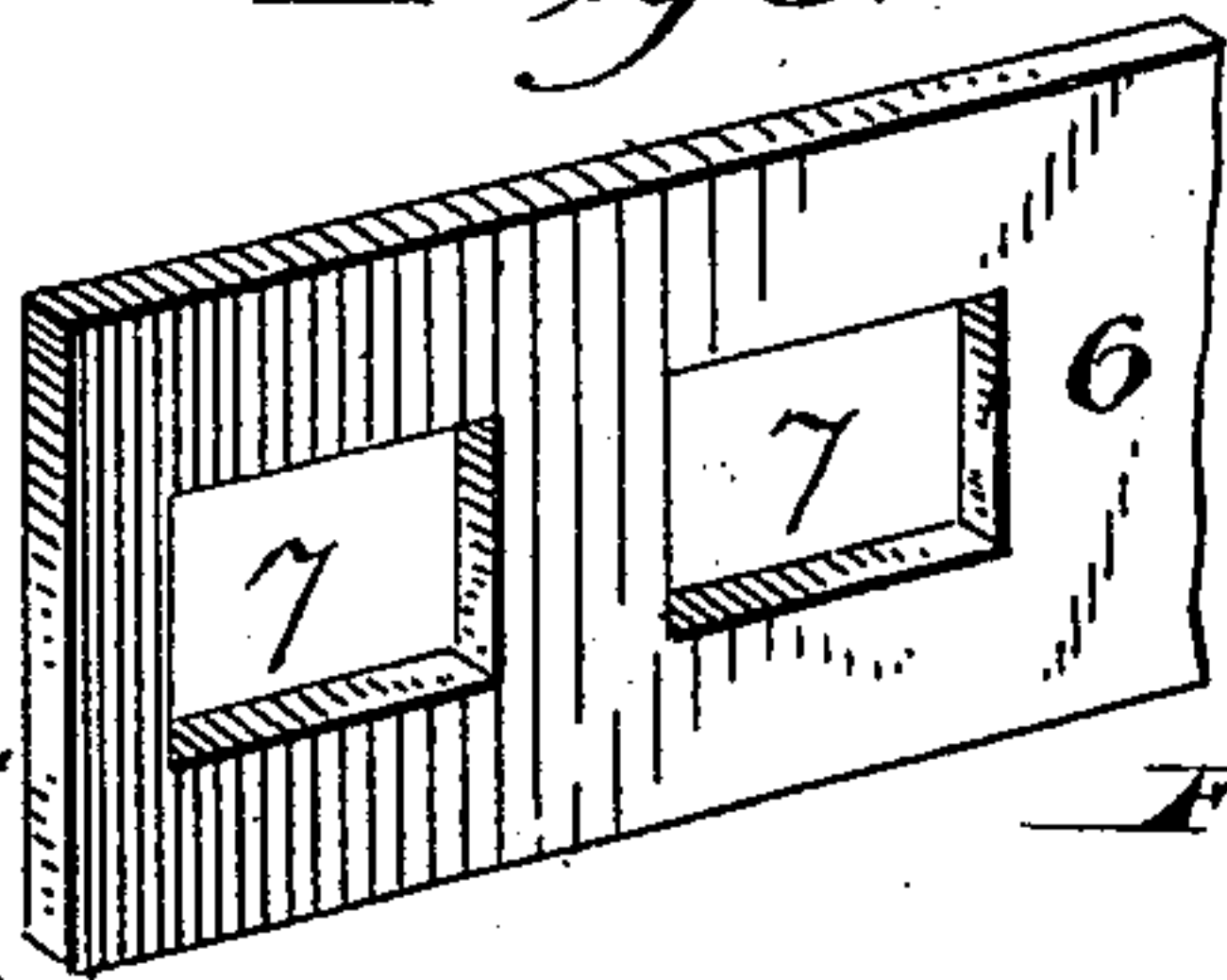
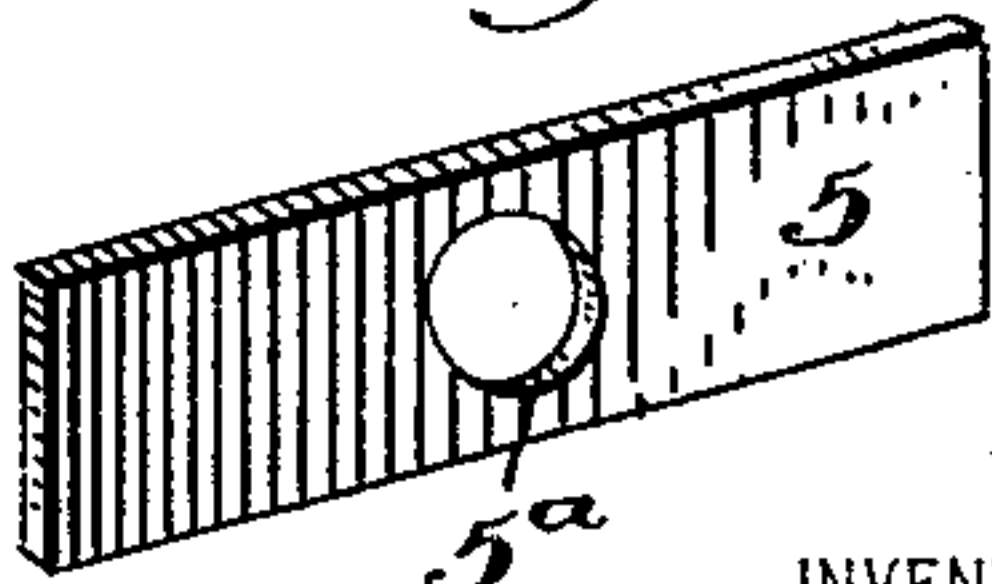


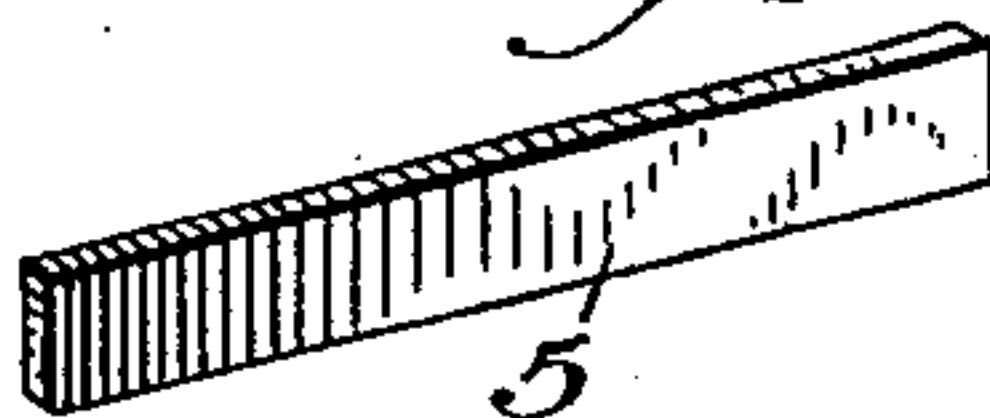
Fig. 6.



WITNESSES:

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Fig. 7.



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UNITED STATES PATENT OFFICE.

EDWARD WATKINS AND CHARLES COLTERYAHN, OF PITTSBURG,
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NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 644,307, dated February 27, 1900.

Application filed September 15, 1899. Serial No. 730,571. (No model.)

To all whom it may concern:

Be it known that we, EDWARD WATKINS and CHARLES COLTERYAHN, citizens of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, 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 This invention relates to certain new and useful improvements in nut-locks, and more particularly to nut-locks employed for use on railway-rails and other structures where it is desired to lock a series of nuts and bolts at the one time.

15 The invention has for one object to construct a nut-lock of the above-referred-to class that will be extremely simple in its construction, strong, durable, and comparatively inexpensive to manufacture.

20 The invention has for its still further object to construct a nut-lock that may be easily applied and removed when desired; furthermore, a device of this class that will be highly efficient in its operation and retain the nuts in their proper position at all times.

25 With the above and other objects in view the invention finally consists in the novel construction, combination, and arrangement of parts, to be hereinafter more fully described, and specifically pointed out in the claim.

30 In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, wherein like numerals of reference indicate corresponding parts throughout the several views, and in which—

35 Figure 1 is a side elevation of a section of a rail with our improved nut-lock applied thereto. Fig. 2 is a similar view of the modified form of the same. Fig. 3 is a vertical sectional view taken on the line 3 3 of Fig. 1. Fig. 4 is a similar view taken on the line 4 4 of Fig. 2. Fig. 5 is a perspective view of the retaining-plate, partly broken away. Fig. 6 is a perspective view of the clamp employed in the modified form of our invention. Fig. 7 is a similar view of the clamp employed in the construction as shown in Fig. 1 of the
40 drawings.
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Referring to the drawings by reference-numerals, 1 indicates the rail.

2 represents the bolt, and 3 the nut, both of which may be of the ordinary and well-known construction.

The reference-numeral 4 represents the fish-plate.

5 represents the clamp, and 6 indicates the retaining-plate, said clamp 5 in the modified form being provided centrally with a bolt-hole 5^a.

The reference-numeral 7 indicates rectangular openings cut in the retaining-plate 6.

The manner in which our improved nut-lock is placed in position is as follows: The clamp 5 is placed in the rear of the fish-plate adjacent to the web of the rail. The fish-plate is then applied, and after the nuts are all lined up in proper position the retaining-plate is applied over the ends, engaging the sides thereof and holding the same in proper position. The ends of the clamps are then turned over downwardly and upwardly, serving to hold the retaining-plate in position. When it is desired to remove the nut-lock, the ends of the clamps are turned upwardly, allowing the removal of the retaining-plate, and the nuts upon the ends of the bolts may then be readily removed.

In the modified form we have shown a bolt-hole through the clamp, allowing the bolt to pass through said clamp and operating in substantially the same manner.

The many advantages obtained by the use of our improved nut-lock will be readily understood from the foregoing description and a further explanation is deemed unnecessary.

It will be noted that various changes may be made in the details of construction without departing from the general spirit of our invention.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The combination with a rail, of a pair of clamps adapted to be mounted against one side of the web of said rail and clamped between the underneath face of the top and the upper face of the base, a fish-plate secured to the said clamps, prevented thereby from en-

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gaging the web of the rail and provided with
a series of circular openings, a retaining-plate
secured in the said clamps and provided with
a series of rectangular openings registering
5 with the openings of the said fish-plate, a fish-
plate engaging the web of the rail opposite
the first-named fish-plate and provided with
a series of circular openings, a series of bolts
engaging through the openings of the fish
10 and retaining plates and through the web of
the rail, said bolts having the heads thereof
engage the last-named fish-plate and their
screw-threaded ends extend through the rec-

tangular openings of the retaining-plate, and
a nut mounted on the screw-threaded end of 15
each bolt and adapted to engage the walls of
the rectangular openings to prevent its turn-
ing when in position, substantially as set
forth.

In testimony whereof we affix our signa- 20
tures in the presence of two witnesses.

EDWARD WATKINS.

CHARLES COLTERYAHN.

Witnesses:

JOHN NOLAND,

JNO. W. WAY.