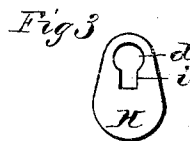
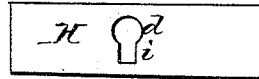


Nut-Locks.

Patented April 14, 1874.



INVENTOR

Attorneys

AM. PHOTO-LITHOGRAPHIC Co. N. Y. (OSBORNE'S PROCESS.)

UNITED STATES PATENT OFFICE.

JEROME B. SWEETLAND, OF PONTIAC, MICHIGAN, ASSIGNOR OF ONE-HALF
HIS RIGHT TO THERON A. FLOWER, OF SAME PLACE.

IMPROVEMENT IN NUT-LOCKS.

Specification forming part of Letters Patent No. 149,808, dated April 14, 1874; application filed
March 6, 1874.

To all whom it may concern:

Be it known that I, J. B. SWEETLAND, of Pontiac, in the county of Oakland and in the State of Michigan, have invented certain new and useful Improvements in Nut-Locks; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

The nature of my invention consists in the construction and arrangement of a nut-lock, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which forms a part of this specification, and in which—

Figure 1 is a perspective view of a railroad-joint embodying my nut-locking device. Fig. 2 is a cross-section of the same through the nut-locking device, and Fig. 3 shows certain parts thereof detached.

A A represent the ends of two adjoining railroad-rails. B B are the fish-plates; C C, the bolts, and D D the nuts. In the drawing, I have shown two bolts and nuts on each side of the division between the two rails, that being the number usually employed in railroad-joints. The bolts C C being passed through in their proper places, the two outside nuts are screwed up tightly, after which a plate, G, is passed over the two inside bolts, and the ends of said plate butt against the two outside nuts, thereby locking them in place. In the center of the plate G is riveted an outward-projecting headed stud, E, which is, on its upper side, provided with two lugs, *a* and *b*, the lug *a* being close up to and against the plate G, and the lug *b* so arranged as to leave a space, *x*, between it and the lug *a*, and a

space, *y*, between it and the head of the stud. On the stud E is placed a plate, H, and a latch, I, each of which has a hole, *d*, with a slot, *i*, on one side, so as to slide over the lugs *a b*. The plate G having been placed on the two inside bolts, as above described, the nuts on said bolts are tightened, and the plate H is then moved up on the stud, over the lug *a*, against the plate G. The plate H fits in between the two inside nuts, and locks them in place, the plate being itself locked by means of the latch I, which is moved inward over the lug *b*, and then turned down in the space *x* between the lugs *a b*, as shown in Fig. 2. The latch I is made heavier at one end, so as to fall down of its own weight in this position, the lug *b* preventing it from moving outward on the stud.

To unscrew the nuts, the latch is first turned upward, when it can be moved outward on the stud E until it may drop in the space *y*. The plate H can then also be moved outward on the stud, allowing the inner nuts to be unscrewed. This releases the plate G, which is then taken off, and the outside nuts can then be unscrewed.

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

The headed stud E, attached to the plate G, and provided with the lugs *a b*, in combination with the plate H and latch I, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 28th day of February, 1874.

JEROME B. SWEETLAND.

Witnesses:

JOSEPH E. SAWYER,
A. H. COMSTOCK.