

(No Model.)

W. B. JOHNSON.

NUT LOCK.

Patented Apr. 25, 1882.

No. 257,014.

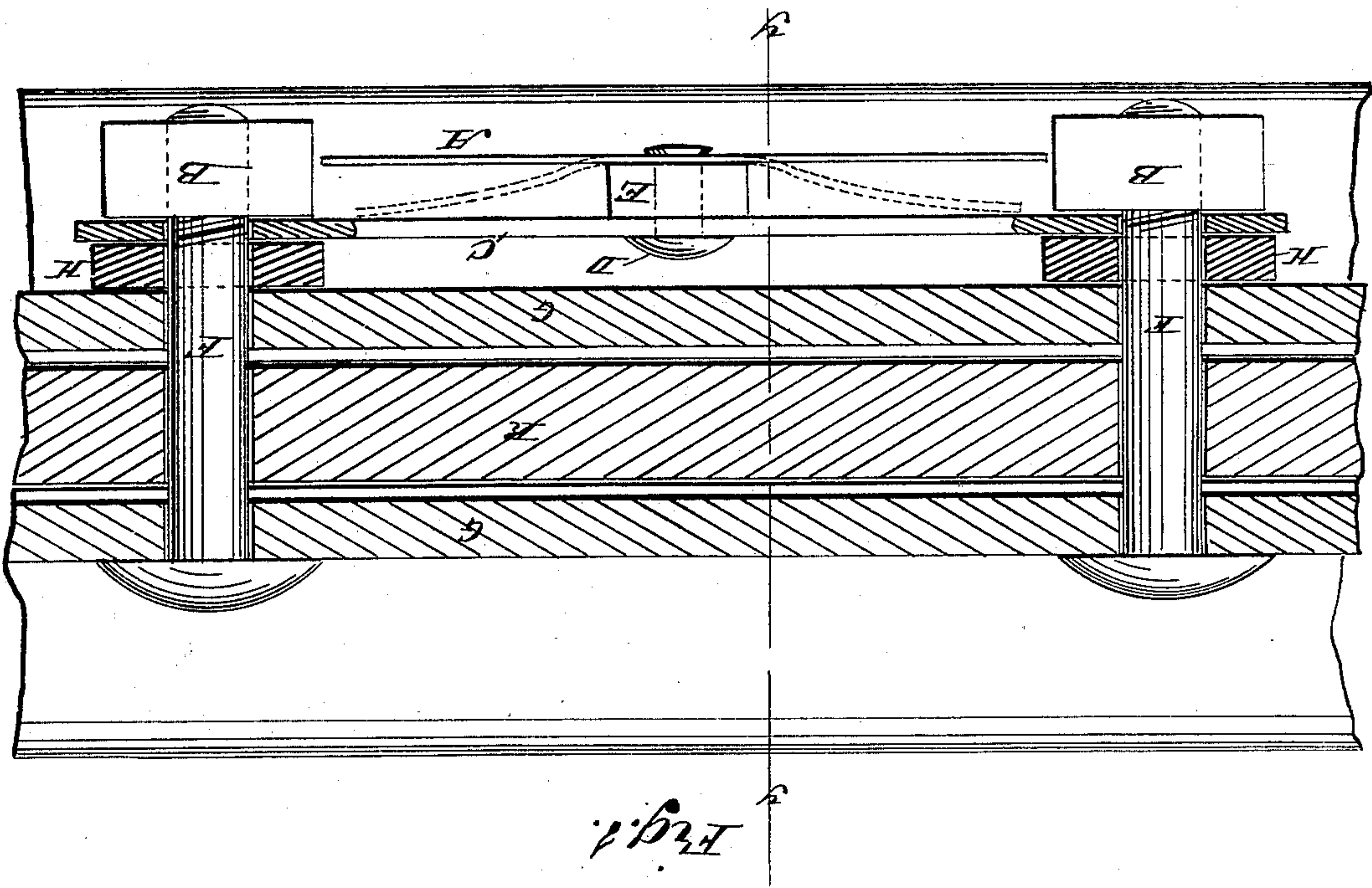
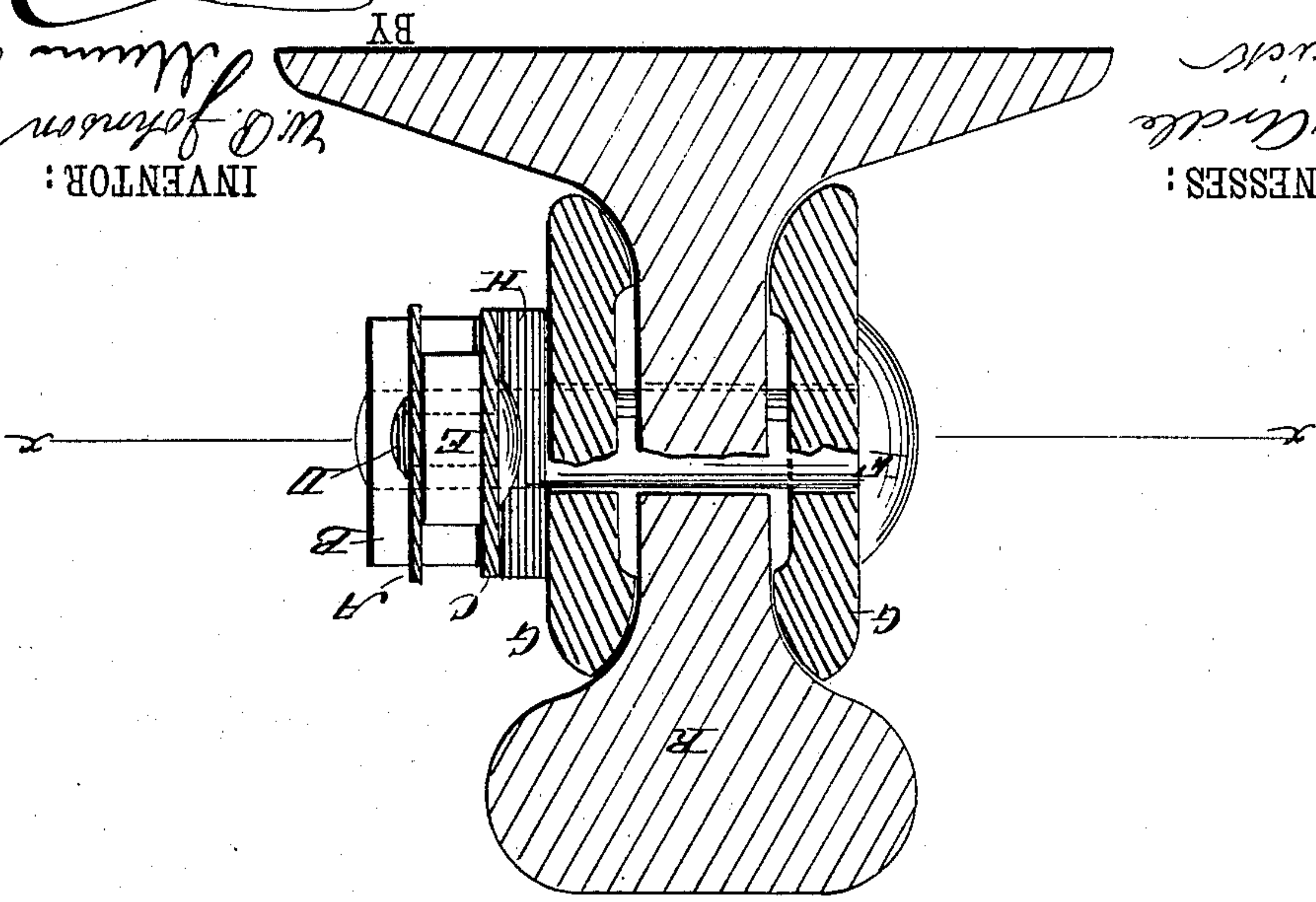


Fig. 1.

Fig. 2.



WITNESSES:
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NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 257,014, dated April 25, 1882.

Application filed July 28, 1881. (No model.)

To all whom it may concern:

Be it known that I, WALTER BROWN JOHNSON, of Waterloo, in the county of De Kalb and State of Indiana, have invented a new and Improved Nut-Lock, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved device to prevent nuts or bolts from being loosened by continued vibrations or shocks.

The invention consists in a strip of metal fitting between two adjoining nuts and attached to a washer-plate fastened outside of the fish-plate, the ends of this strip being bent inward toward the washer-plate when the nuts are being screwed on, and when the nuts are tightened the strip is straightened, so that the nuts would strike the ends of the strip if they should happen to turn.

In the accompanying drawings, Figure 1 is a horizontal sectional view of a rail provided with my improved nut-lock on the line *x x*, Fig. 2. Fig. 2 is a cross-sectional elevation of the same on the line *y y*, Fig. 1.

Similar letters of reference indicate corresponding parts.

A metal strip, A, of such length that it will fit in between two adjoining nuts, B, is attached to the outer surface of a washer-plate, C, by means of a rivet, D, and is held a short distance from this plate by a small block, E. The bolts F are passed through the plate C, the fish-plates G G, the rail R, and through rub-

ber washers H, interposed between the plate C and the fish-plate G. The ends of the strip A are then pressed against the plate C, as indicated in dotted lines in Fig. 1, and the nuts B are screwed on the bolts F and are drawn up tight. Then the ends of the strip A are drawn outward, so that this strip will be straightened, as shown in full lines in Fig. 1. If the nuts begin to loosen and turn, they will strike against the ends of the strip A and prevent the rotation of the nut, and consequently also the loosening of the same.

The joint is very elastic. The lock can be used several times, can be fastened or unfastened very rapidly, and requires no special tools for applying it.

I am aware that it is not new to use a plate with end holes to fit over the nuts and pivoted in the middle to the washer-plate that connects the bolts; but

What I claim is—

The elastic plate A, made shorter than the distance between the nuts B B, and at the middle rigidly connected with the washer-plate C, which connects the bolts F F, whereby the ends of said plate may be bent down to allow the nuts to be screwed on or off, but otherwise will resist and prevent the nuts from turning around on the screws, as described.

WALTER BROWN JOHNSON.

Witnesses:

HERBERT D. ARMSTRONG,
NOAH H. WEAVER.