

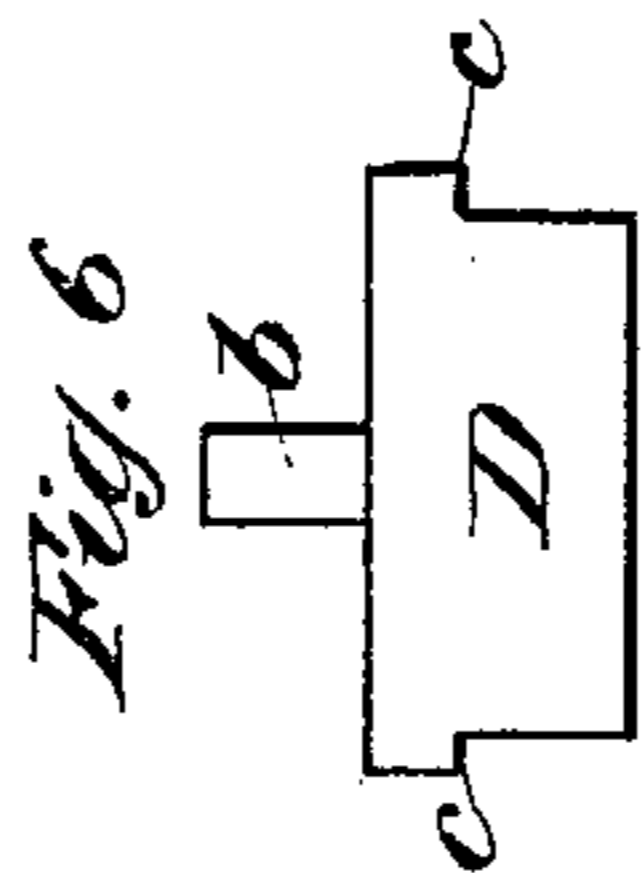
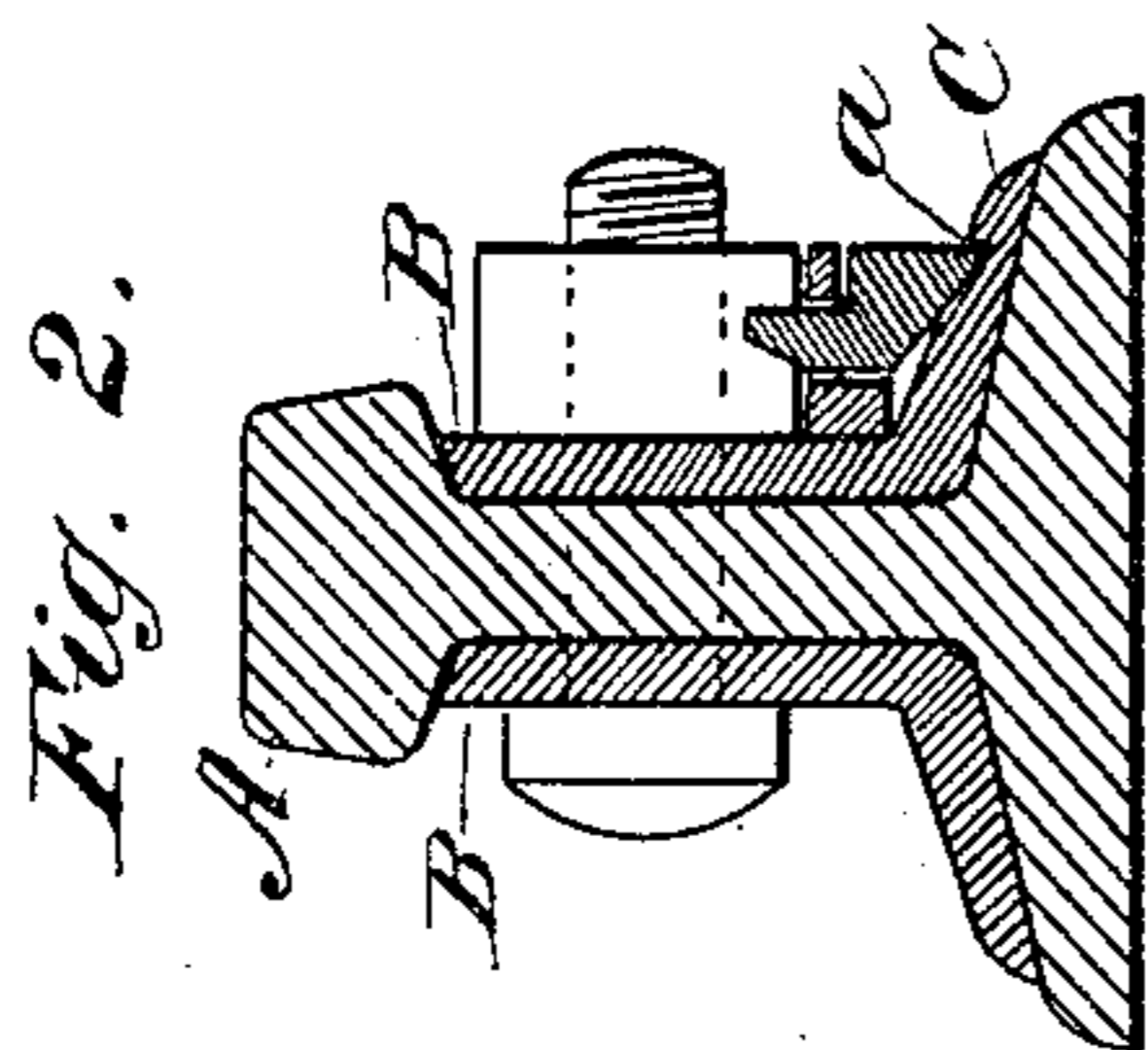
No Model.)

L. SELF.

NUT LOCK.

No. 368,357.

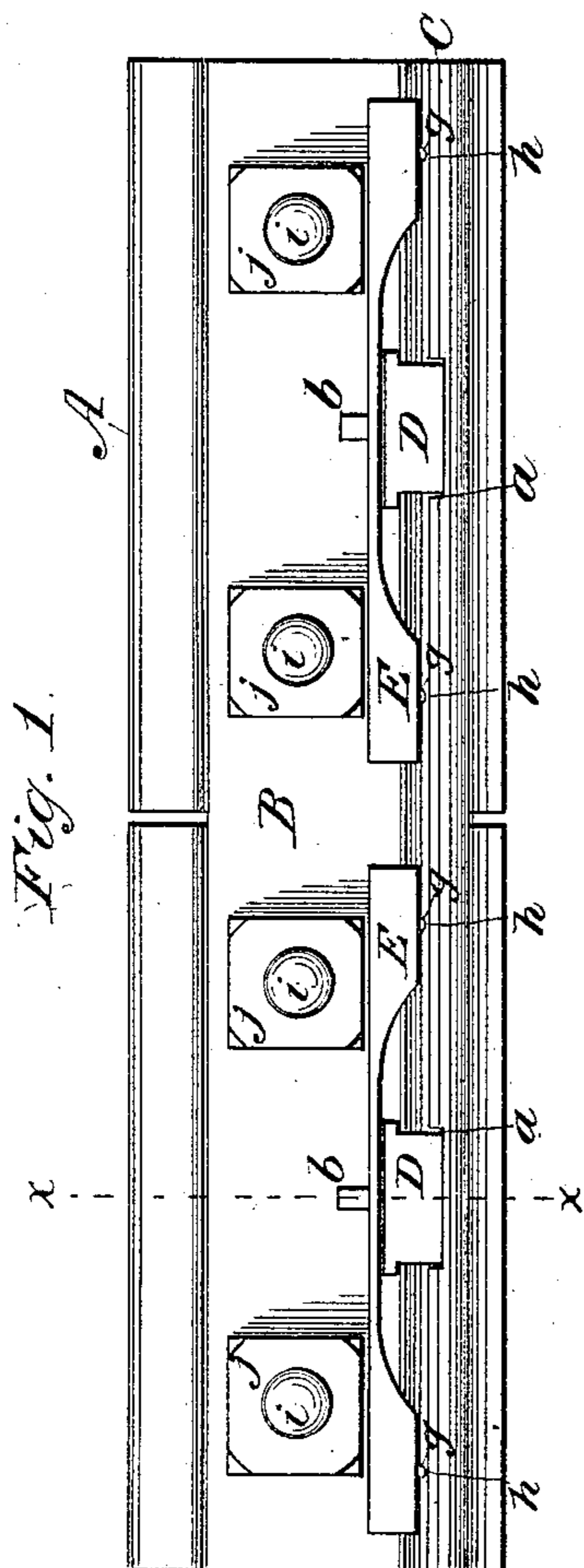
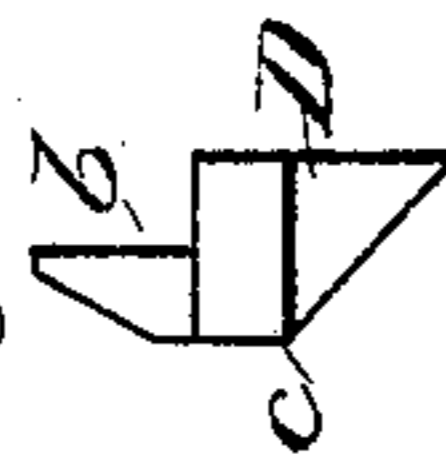
Patented Aug. 16, 1887.



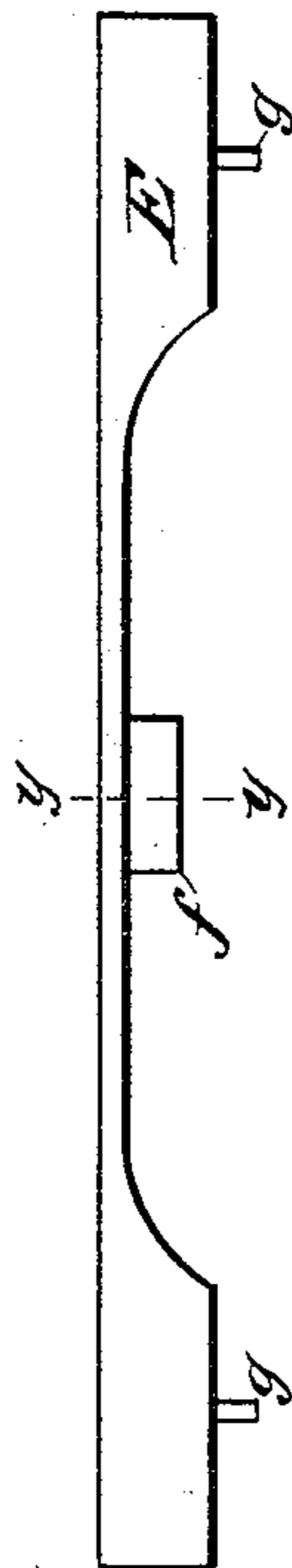
*Fig. 7.*



*Fig. 8.*



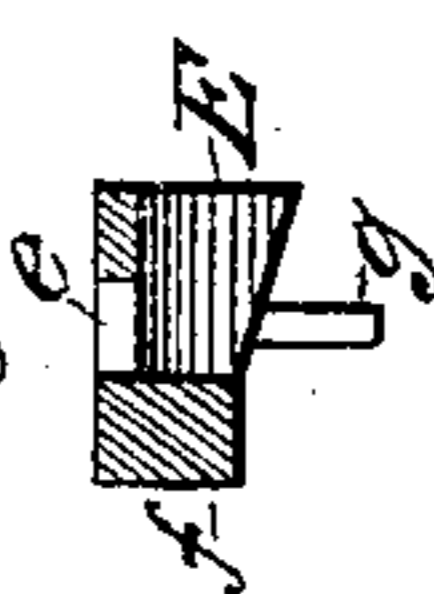
*Fig. 3.*



*Fig. 4.*



*Fig. 5.*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

LAVEGA SELF, OF PIEDMONT, MISSOURI.

## NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 368,357, dated August 16, 1887.

Application filed June 1, 1887. Serial No. 239,951. (No model.)

*To all whom it may concern:*

Be it known that I, LAVEGA SELF, of Piedmont, in the county of Wayne and State of Missouri, have invented a new and Improved Nut Lock, of which the following is a specification, reference being had to the annexed drawings, forming a part thereof, in which—

Figure 1 is a side elevation of my improved nut-lock. Fig. 2 is a transverse section taken on line *x x* in Fig. 1. Fig. 3 is a side elevation of one of the springs employed for fastening the nut. Fig. 4 is a plan view of the same. Fig. 5 is a transverse section taken on line *y y* in Fig. 3. Fig. 6 is a front elevation of the nut-lock spring-holder. Fig. 7 is a plan view of the nut-lock spring-holder, and Fig. 8 is an end elevation of the same.

Similar letters of reference indicate corresponding parts in all the figures.

The object of my invention is to provide a simple and effective device for preventing the accidental loosening of nuts and bolts employed in securing fish-plates to railway-rails, at the same time permitting of a certain amount of motion in the bolts.

My invention consists in the combination, with a fish-plate having a flange extending over the foot of the rail and provided with a cavity for receiving a spring-holder, of a spring-holder fitted to the cavity, and a spring supported by the holder and adapted to engage the sides of the nuts, all as hereinafter more fully described.

To the railway-rail *A* are fitted the fish-plates *B*, having flanges *C*, which extend outward over the foot of the rail. In the flanges *C* are formed recesses *a* between each part of the bolt-holder, as shown in Fig. 1, and to the said recesses are fitted the spring-holders *D*, which are provided with studs *b* for engaging the springs. The spring-holders *D* are provided with shoulders *c* for receiving the tool by which they are lifted out of the recesses *a*.

Upon the studs *b* of the spring-holders *D* are received the straight springs *E*, the said springs being provided with a central aperture, *e*, adapted to fit over the studs *b*. The springs *E* are each provided with an ear, *f*, which serves the double purpose of re-enforcing the spring opposite the aperture *e* and of

providing a hold upon the spring-support *D*, the said ear extending downward behind the rear surface of the spring-support. The ends of the springs *E* are thickened upon their under surface and beveled to adapt them to the surface of the flange *C* of the fish-plates, and they are also provided with guide-pins *g*, which extend into holes *h*, formed in the flange of the fish-plate.

The fish-plate is held in its place upon the rail ends by bolts *i* in the usual way, and the nuts *j* are turned so as to bring their lower surfaces in a horizontal plane. The studs *b* of the spring-holders *D* are placed in the apertures *e* of the springs, and the springs are inserted underneath the nuts, the spring-support *D* being lifted by means of a suitable wrench, so as to allow it to slip into the recess *a* in the flange of the fish-plate. The wrench by which the nut-lock is placed in position is also of suitable dimensions to apply to the nuts *j*, so that the trackman is obliged to carry but a single wrench to tighten or loosen the nuts or to remove or apply the nut-lock.

My improved nut-lock allows of the expansion and contraction of the track-rails, and also of the yielding of the track during the passage of a train.

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

1. The combination, with the fish-plate *B*, provided with a recess, *a*, and holes *h*, of the spring-holder *D*, having shoulders *c* and a stud, *b*, and the spring *E*, provided with an aperture, *e*, and ears *f*, and having thickened ends furnished with guide-pins *g*, substantially as described.

2. The combination, with the rails *A*, of the fish-plates *B*, having recesses *a* and holes *h*, the spring-holders *D*, adapted to the recesses and provided with the studs *b*, and the straight springs *E*, having the central aperture, *e*, and provided with the ears *f* and the pins *g*, substantially as described.

LAVEGA SELF.

Witnesses:

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