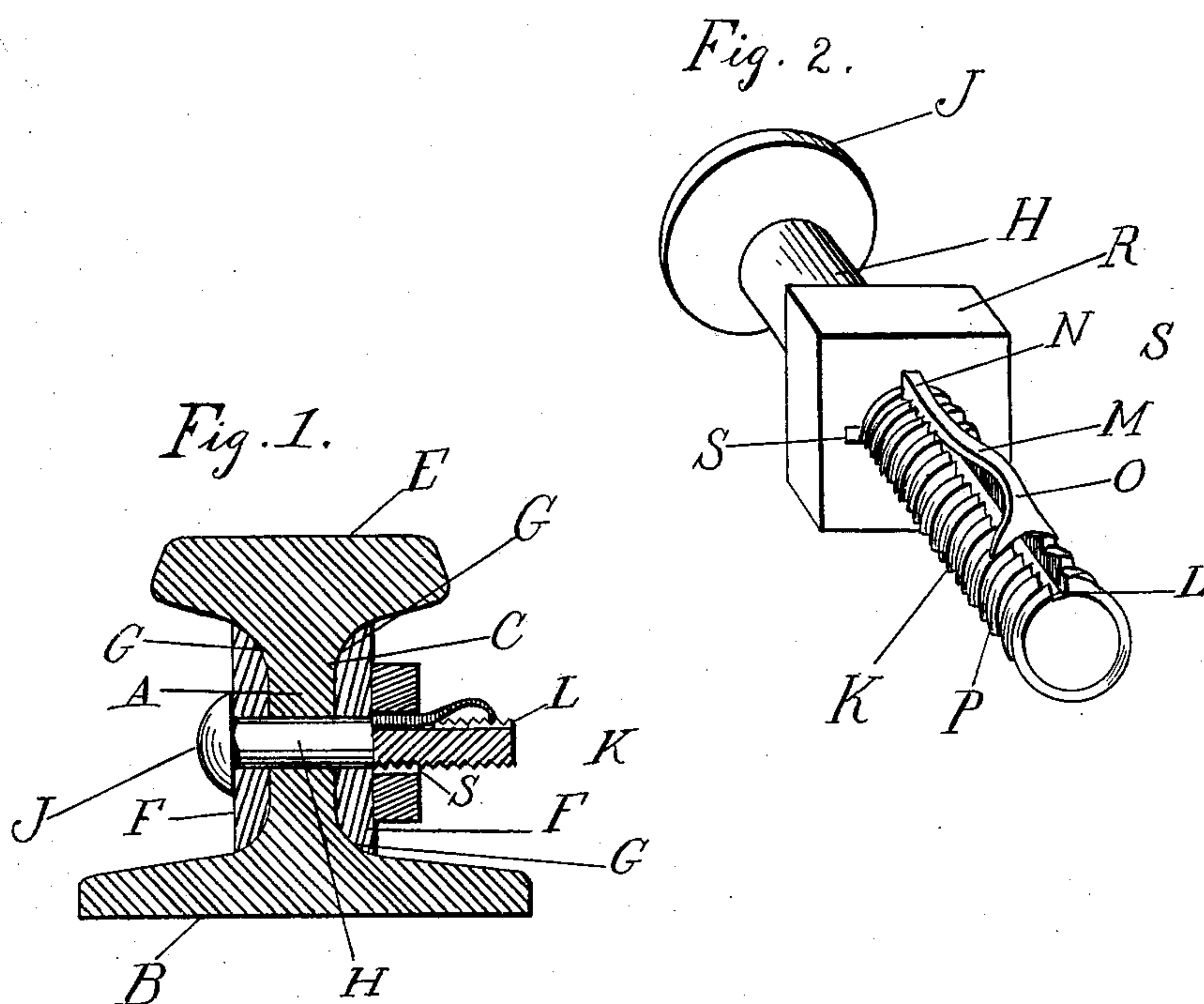


(No Model.)

G. E. BENTON.
NUT LOCK.

No. 605,811.

Patented June 14, 1898.



WITNESSES:

Samuel Reed

Isaac Anderson

George E. Benton

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BY

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UNITED STATES PATENT OFFICE.

GEORGE E. BENTON, OF BROOKLYN, NEW YORK, ASSIGNOR OF ONE-HALF
TO GEORGE S. ELLIOTT, OF NEW YORK, N. Y.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 605,811, dated June 14, 1898.

Application filed January 28, 1897. Serial No. 621,053. (No model.)

To all whom it may concern:

Be it known that I, GEORGE E. BENTON, a citizen of the United States, residing in Brooklyn, county of Kings, and State of New York, have invented a new and useful Improvement in Nut-Locks, of which the following and subjoined specification, together with the accompanying drawings, sets forth in full, clear, and yet concise terms the nature of my invention.

My invention relates to nut-locks and provides means whereby the nut will not become easily loosened or jarred from its proper position by any cause whatsoever save when it is properly manipulated.

With this and other objects in view, to which I will hereinafter refer, I have so described my invention that any one familiar with the art can readily understand, construct, and use the device.

Reference being had to the accompanying drawings, in which similar letters refer throughout to similar parts, Figure 1 is a sectional end view of a rail having my invention secured thereto. Fig. 2 is a perspective view of the locking mechanism.

The rail A has a base B, web C, and head E similar to those now in general use, and in conjunction with which I employ plates F F, having their inner edges curved, as shown at G. These curved edges correspond to the curve in the formation of the rail, hence insuring a snug fit between the base and head and against the web. Formed in these plates and rail are registering openings, through which a bolt H is passed. This bolt is provided on one end with an ordinary head J and on the other with the usual screw-thread K. Extending longitudinally of the bolt and in its screw-threaded end is a slot or angular groove L. I may form therein, if found desirable, two or more slots, and hence do not limit myself to any particular number. I employ a key M which has an angular body portion N, snugly fitting in the said groove. The opposite end of this key has a spring-arm O secured thereto, or preferably formed integrally thereon, and which is provided with a

downwardly-extending fork P, as shown in the drawings, which is adapted to engage the said thread on opposite sides of the said groove L. By means of this fork the arm is securely held in its proper position and all danger of its slipping from position eliminated. Mounted on this screw-threaded bolt is a nut R, which is provided transversely thereof and in communication with its central bore with angular grooves S, adapted to register with those formed in the bolt, and when in such a position afford an opening or chamber into which the angular body N of the key M snugly fits, thereby preventing the nut from being turned without first removing the key. It is thus clearly seen that when the nut is in position so that one of its slots registers with that in the bolt the key is pushed therein, while its spring forked arm, resting against the screw-thread, prevents its slipping.

It will be seen that by having the fork P simultaneously engage the threads on both sides of the slot the key is held more firmly in place and there is less liability of its leaving its place by an accidental blow than if it were extending on only one side of said slot.

I am aware that there are other and patented inventions somewhat similar in construction to my invention, and therefore do not broadly claim such; but

What I do claim as new, and desire to protect by Letters Patent, is—

In a nut-lock, the combination of a bolt having a screw-threaded longitudinally-grooved end, a nut with a groove registering with said bolt-groove, and a key having a body portion adapted to enter said registering grooves, and provided with a spring portion having a downwardly-extending fork adapted to simultaneously engage the threads on said bolt on opposite sides of said grooves, substantially as described.

Whereunto I have set my hand this 22d day of January, 1897.

GEORGE E. BENTON.

Witnesses:

J. GALE NEEDHAM,
WM. T. REID.