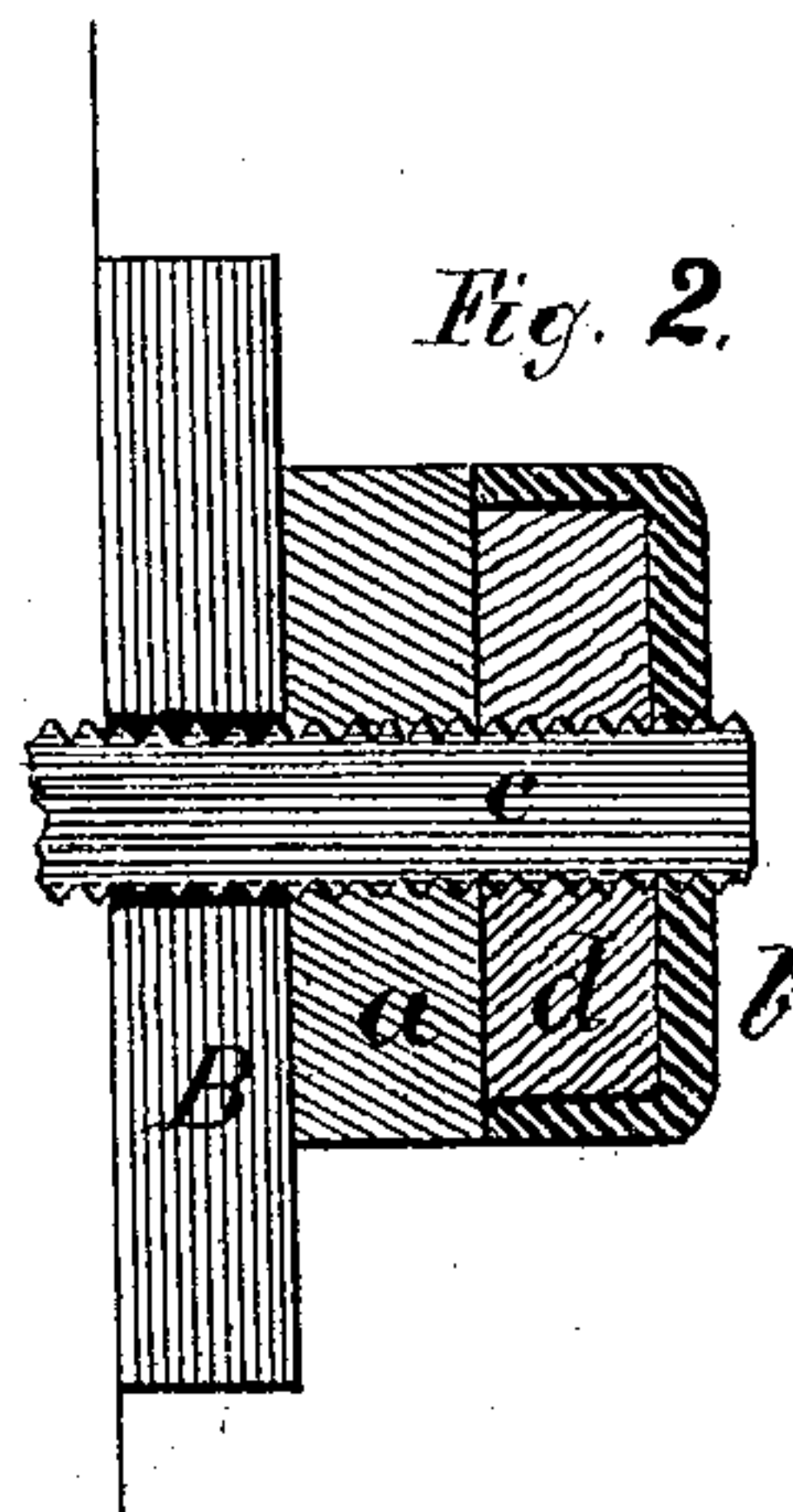
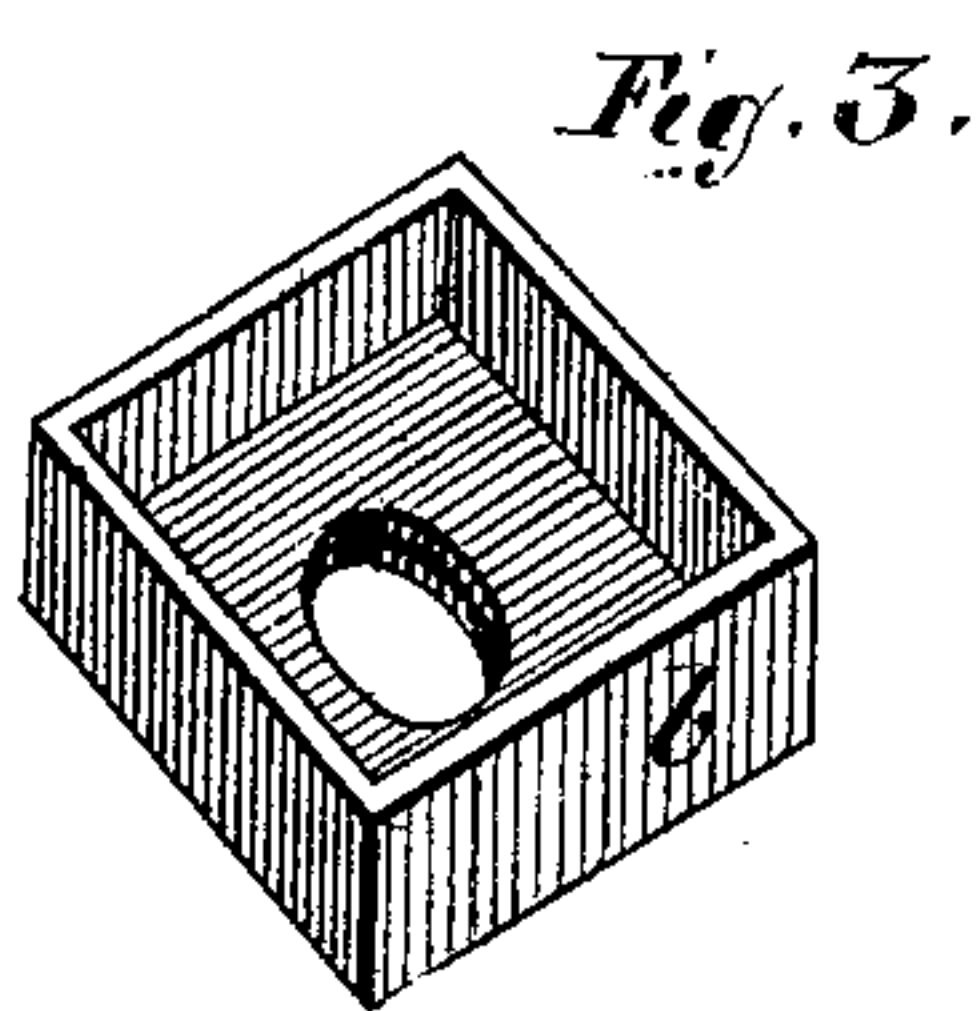
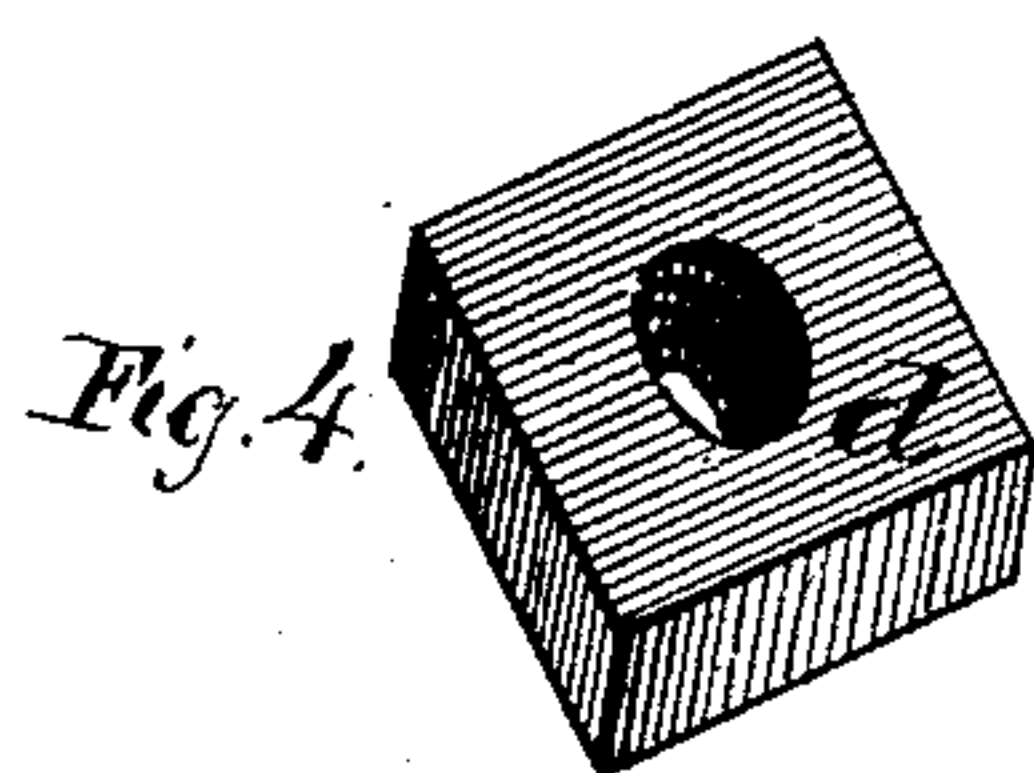
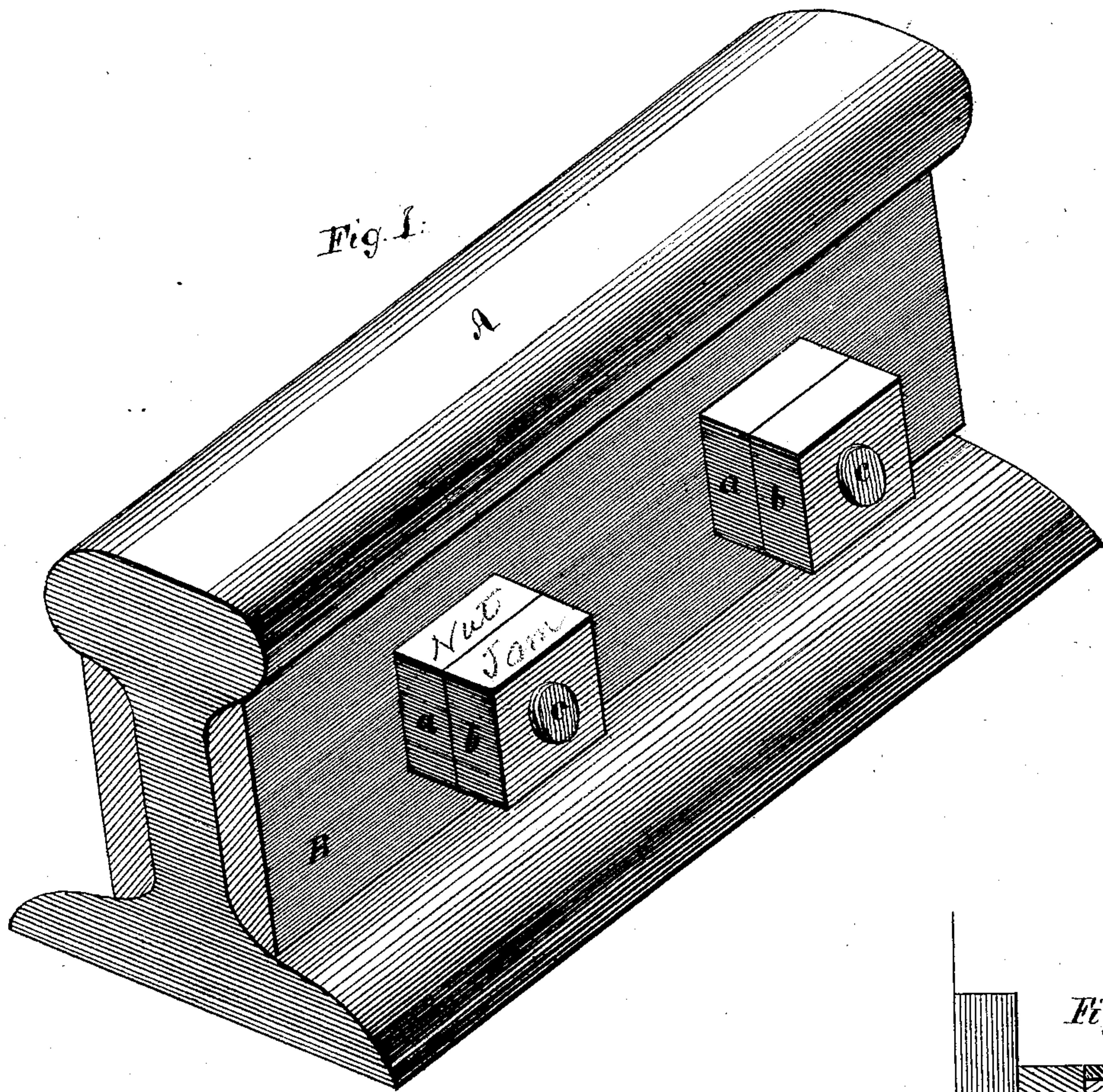


JOHN M. WINSLOW.
Improvement in Jamb-Nuts.
No. 127,445. Patented June 4, 1872.



Inventor:

Witnesses.

A. V. Schutte.
Geo. Fraunberger

John M. Winslow

UNITED STATES PATENT OFFICE.

JOHN M. WINSLOW, OF ROCHESTER, NEW YORK.

IMPROVEMENT IN JAM-NUTS.

Specification forming part of Letters Patent No. 127,445, dated June 4, 1872.

I, JOHN M. WINSLOW, of Rochester, in the county of Monroe and State of New York, have invented a new and useful Improvement in Nut-Holders; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming part of this specification and to the figures and letters marked thereon.

Figure 1 is a perspective view of a section of a railroad rail, to which fish-plates are applied and held in place by bolts and nuts in the usual manner, and to which my device is attached by screwing it onto the bolts outside of the holding-nuts, as shown at *b*. Fig. 2 is a section through one of the bolt-holes. Fig. 3 shows a skeleton nut or shell. Fig. 4 is a rubber nut intended to fill the cavity in the skeleton nut or shell.

The same letters of reference indicate similar parts.

The object of this invention is to furnish a cheap, convenient, and reliable device for holding the nuts on fish-plate bolts, which are liable to turn backward and off of the bolts, owing to the continual jarring or agitation to which they are exposed. It is also adapted to the holding of nuts in other places, especially on car-trucks and farming implements; and it consists in what I denominate a nut-holder, constructed and operating as herein more fully described.

A, Fig. 1, is a section of a railroad rail. B is a section of the fish-plates. The bolts are shown at *c*. The nuts are seen at *a*, against which are screwed up snugly the nut-holders, as shown at *b*. In Fig. 2 the device is shown more fully, as indicated by the letters *b* and *d*. *b* is a skeleton-nut or shell, made of malleable iron, about one-eighth of an inch thick through its sides, and about one-fourth of an inch thick through the front part of it, in which is a cylindrical opening, on the inside of which is cut a thread corresponding with that on the screw-bolts *c*. The rubber nut is shown at *d*, made of that material, somewhat harder than that in common use. It is molded with a thread on its inner surface corresponding with that on the screw-bolts, to which it is to be applied. Thus formed, it is placed inside of the skeleton-nut *b*, fitting snugly, and occupying all

the space up even with the edge or rim of the same.

When thus constructed and combined together, forming what I call a nut-holder, the device is ready to be screwed onto the bolts outside of the ordinary holding-nuts; and as the threaded cavity through the rubber nut is to be molded somewhat smaller than the bolts on which it is intended to be screwed, its own contractile power, together with the external pressure to which it will be subjected by being pressed snugly into the skeleton, will cause it to fit very snugly to the bolt on which it is screwed, thus preventing the device from possibly turning either way on its bolt in consequence of any jarring to which it may be exposed; and as the thread on the inside of the skeleton or shell will prevent the device from moving back lengthwise on the bolt, it will be evident that when screwed up firmly against a holding-nut it will be impossible for such nut to turn backward on its bolt. It will be seen that I do not in any degree depend upon the rubber nut in its own direct application to the face of a nut to hold it from turning backward, for the rubber does not project beyond the rim of the skeleton in which it is placed. The device being screwed up firmly against a holding-nut, iron to iron, it will be seen that the skeleton or shell does all the work in keeping the nut in place.

A distinguishing feature of my invention consists in the fact that it is to be applied to a bolt outside of the holding-nut, and thus, although, by the wear and friction at the joint, the bolts may become loose and somewhat lengthened, which is the case with fish-plate bolts, still it will have no effect, as will be seen, to loosen either the holding-nut or the device itself.

Another very important feature of my invention is that it does not require the removal of nuts from their bolts, or any modification of the structure, in any of its parts, in order to apply it. In respect to railroads, I take them just as I find them, complete in all their parts, and fully finished up, and to the bolts outside of the nuts I apply my device snugly up against the nuts, and the whole object is attained and rendered permanent.

I do not claim to be the first and only per-

son who has in any way made use of rubber to prevent nuts from turning backward on their screw-bolts. This, I am well aware, has been done by others, but in a different manner from which I employ it. It has been used as a packing in washers, placed on the bolts back of the holding-nuts. It has been used also as a packing in a recess on the inside of nuts themselves; but when thus used it has proved of but little practical value, for as soon as the bolts become somewhat worn by the friction at the joint they at once become loose and lengthened, and thus overcome the pressure of the rubber packing, and then the nuts readily turn back in their bolts as though no such appliance had been made.

I disclaim the use of rubber or other elastic material when placed in any way between the inner face of a main or holding-nut and the object through which the bolt passes. I also

disclaim, explicitly, a rubber nut when placed on a bolt outside of a principal holding-nut. I also disclaim an elastic washer retained against the face of a nut by being inserted in a groove or channel formed therein to receive it, as shown in the patent of D. B. Hart, dated August 6, 1867.

But what I do claim as my own invention or improvement in nut-holders, and wish to secure by Letters Patent, is—

The device herein named, and consisting of the metallic shell *b*, incasing an elastic packing or core, when used, in combination with a bolt and nut, as a nut-holder or nut-lock, constructed and operating substantially as and for the purposes specified.

JOHN M. WINSLOW.

Witnesses:

GEO. FRAUENBERGER,
A. V. SCHUTTE.