

(No Model.)

A. NEUTASCHER.

NUT LOCK.

No. 299,838.

Patented June 3, 1884.

Fig. 1.

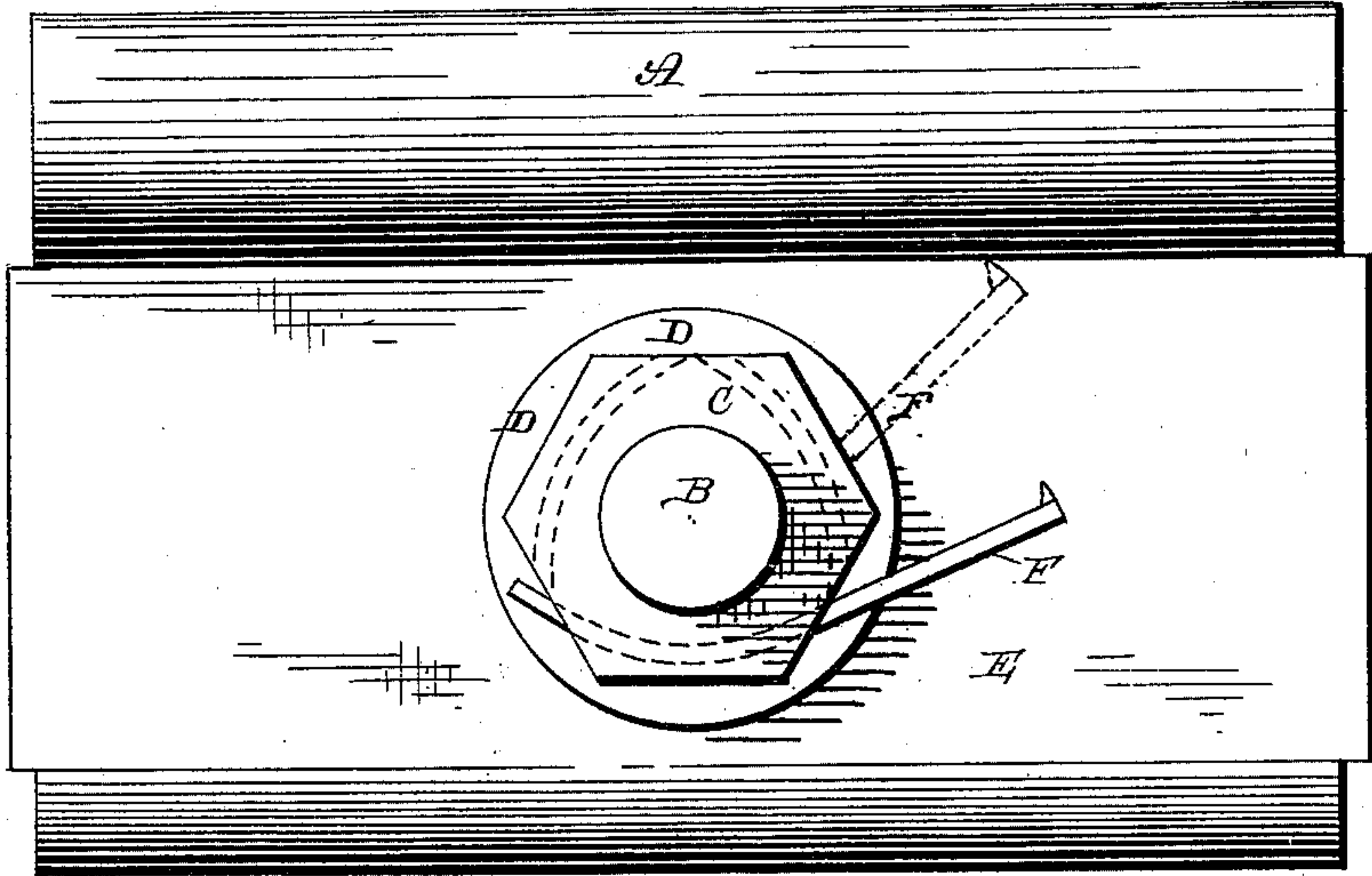
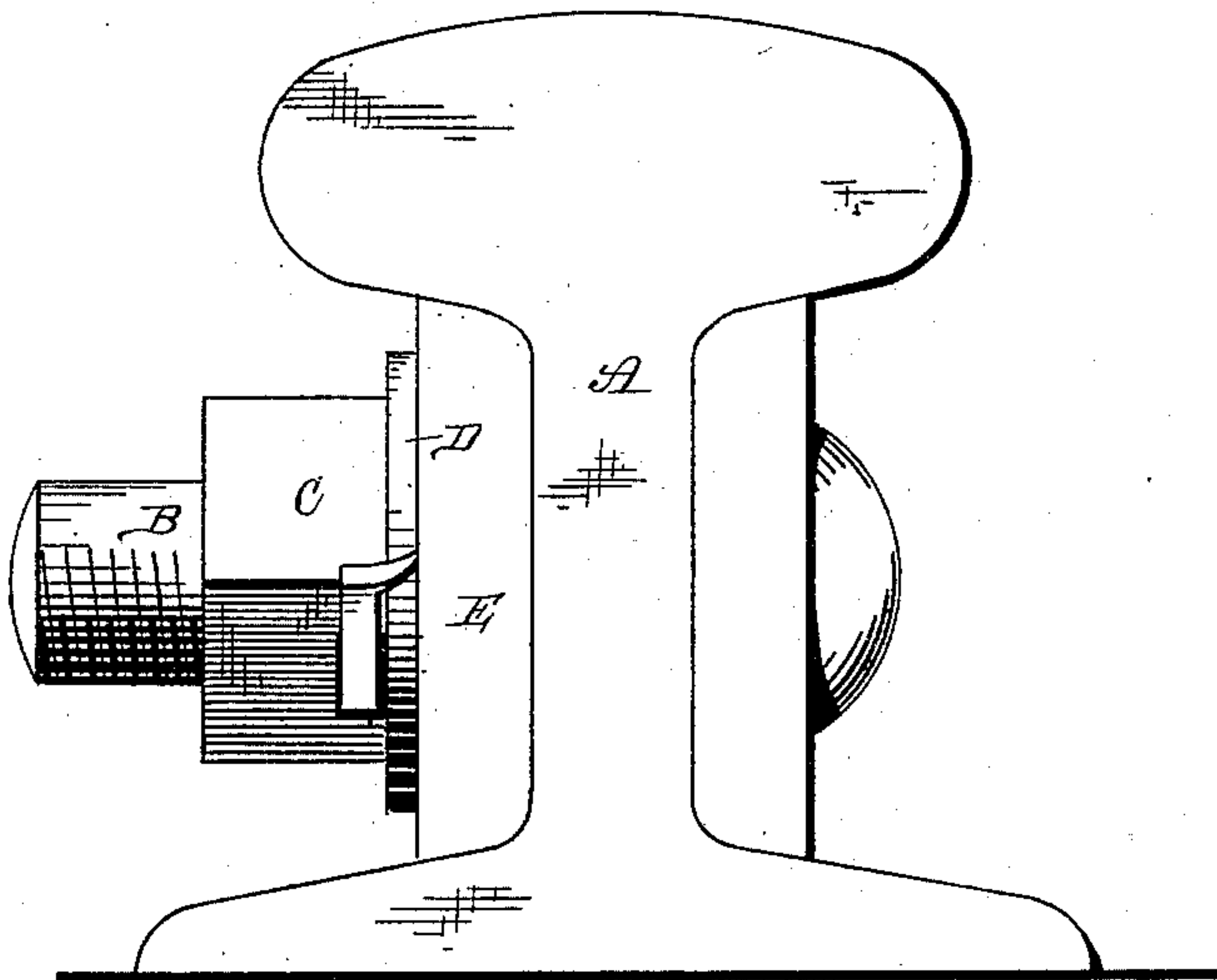


Fig. 2.



—WITNESSES.—

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ALLISE NEUTASCHER, OF MENDOTA, ILLINOIS.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 299,838, dated June 3, 1884.

Application filed March 11, 1884. (No model.)

To all whom it may concern:

Be it known that I, ALLISE NEUTASCHER, of Mendota, in the county of La Salle and State of Illinois, have invented certain new and useful Improvements in Nut-Locks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in nut-locks; and it consists in the combination of a nut having suitably curved grooves made in its inner surface with a correspondingly-shaped key, which has a sharp point upon its outer end, for the purpose of catching in the fish-plate, and thus preventing the nut from turning backward after it has once been tightened in position, as will be more fully described hereinafter.

The object of my invention is to provide a nut-lock which has its outer end to extend outward a suitable distance from the side of the nut, so as to strike against an obstruction, and thus act as a stop, and which will bite into the fish-plate or other surface against which the nut is tightened as soon as it is attempted to turn the nut backward.

Figure 1 is a front elevation of a nut-lock embodying my invention. Fig. 2 is a side elevation of the same.

A represents a railroad-rail; B, an ordinary screw-bolt; C, the nut; D, the washer, and E the fish-plate. In the inner surface of this nut are made a number of grooves, as shown, into any one of which the inner end of the key F is forced. This key consists of a small iron rod or bar of any suitable length, and which has a sharp point, G, made upon its outer end, for the purpose of catching in the fish-plate when it is attempted to unscrew the nut after it has once been tightened in place. This sharp point is preferably formed as shown, so that the nut can be tightened without any interference whatever from the key; but as soon as it is attempted to turn the nut backward the point catches against the surface of the fish-plate, and then the greater the power that is applied in forcing the nut backward the greater distance is this sharp

point forced into the surface of the fish-plate. By the construction here shown it will be seen that the nut can be turned up to any desired point, and then locked securely in place. Even if the sharp point G is not used, the projecting end of the key will strike against the top and bottom flange of the rail, and thus act as a stop to prevent the nut from turning around. The object of the curved key and slot is that when used in connection with a fish-plate nut the curved key can be inserted in the slot of the nut after the nut is tightened, and then by turning the nut back a trifle the outer end of the key will bear against the flange of the rail, and in that position will admit of a lateral as well as a transverse motion of the ends of the rail under the influence of the changes of temperature and the motions consequent upon the moving of trains over the rails. Meanwhile the outer end of the key will trail along for a short distance on the flange, and allow of the necessary changes in position of the nut without its becoming loosened.

I am aware that grooves have been made in the inner surface of a nut, and then a suitable locking device applied thereto; but in no case has a key been used which is provided with a locking-point at a distance from the side of the nut, and which will allow the nut to be freely tightened in place without becoming loosened or displaced, and which will then prevent the nut from being removed.

Having thus described my invention, I claim—

The combination of a nut having curved grooves made in its inner face with the curved key capable of being inserted into the groove after the nut is screwed down nearly or quite to its seat, which has its outer end to project a suitable distance beyond the side of the nut, and which may be provided at its outer end with a sharp point to catch in the surface of the article against which the nut is clamped, substantially as shown.

In testimony whereof I affix my signature in presence of two witnesses.

ALLISE NEUTASCHER.

Witnesses:

R. D. DOBBER,
C. RUEDY.