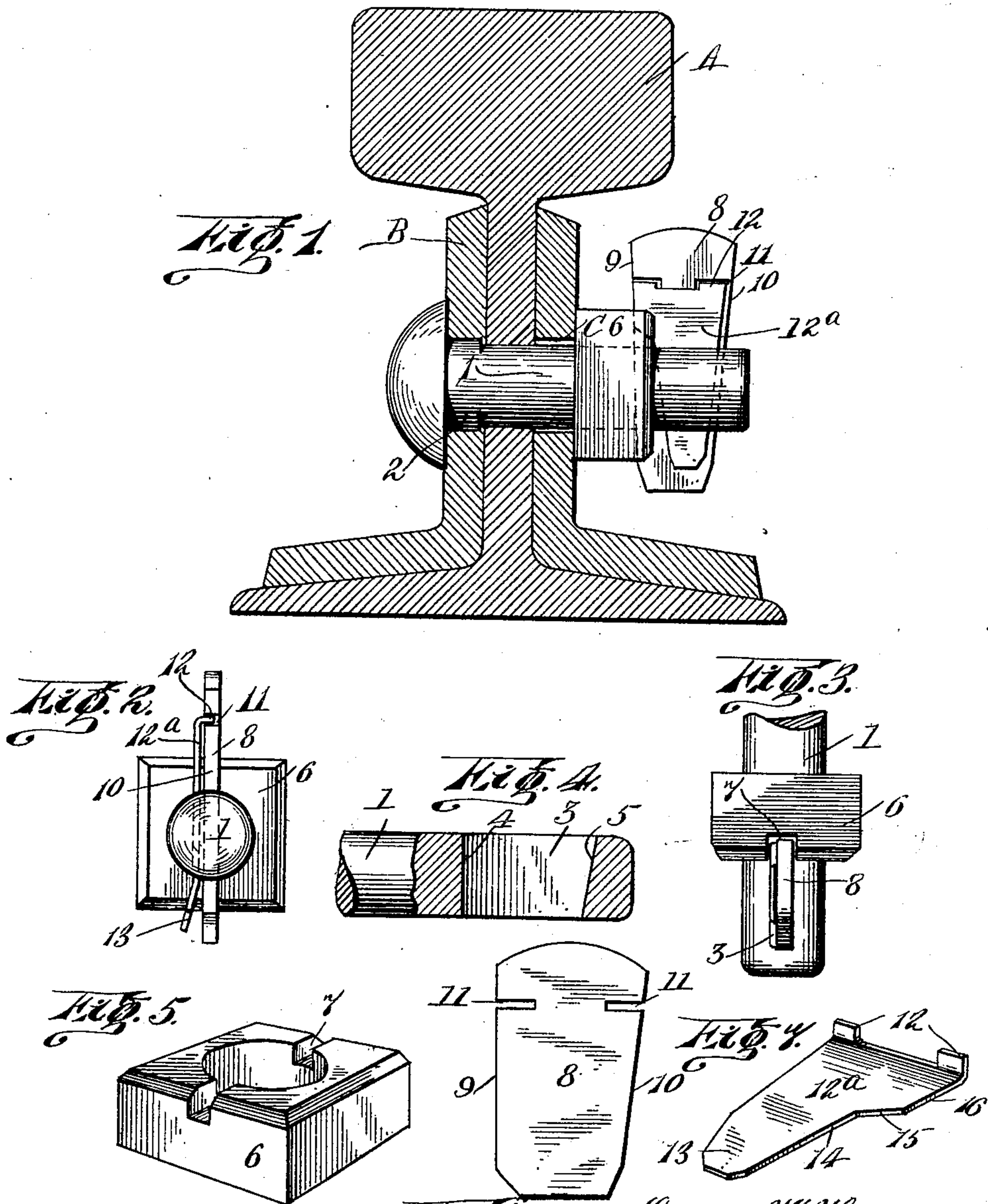


G. W. HOOVER.
FASTENING DEVICE.
APPLICATION FILED MAR. 18, 1907.

925,189.

Patented June 15, 1909.



Witnesses:

Eugene M. Slaney
Attorneys

Fig. 6.

George W. Hoover.
Inventor,

By Marion Marion
Attorneys

UNITED STATES PATENT OFFICE.

GEORGE WILLIAM HOOVER, OF ST. THOMAS, ONTARIO, CANADA, ASSIGNOR OF ONE-FOURTH TO ALEM ROBINSON AND ONE-FOURTH TO JOHN E. OSTRANDER, OF ST. THOMAS, CANADA.

FASTENING DEVICE.

No. 925,189.

Specification of Letters Patent.

Patented June 15, 1909.

Application filed March 18, 1907. Serial No. 363,114.

To all whom it may concern:

Be it known that I, GEORGE WILLIAM HOOVER, a subject of the King of Great Britain, residing at St. Thomas, county of Elgin, Province of Ontario, Canada, have invented certain new and useful Improvements in Fastening Devices; and I do hereby declare that the following is a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to fastening devices, particularly for use in securing fish plates on railway rails.

The object of my invention is to provide a threadless fastening in which an insertible member has a beveled surface working against a beveled wall of a slot, to provide a quick action in tightening up the fish plates.

A further object is to provide means for securing the insertible member in place and to provide means for guiding the securing and insertible members into a slot.

A further object is to provide means for removably maintaining the securing member on the insertible member, so that the securing member may be easily replaced; and, my invention consists of the construction, combination, and arrangement of parts, as herein illustrated, described, and claimed.

In the accompanying drawings forming part of this application, I have illustrated one form of embodiment of my invention, in which drawings similar reference characters designate corresponding parts, and in which:

Figure 1 is a transverse vertical section through a rail and fish plate showing my invention in side elevation, but in abnormal position with relation to the rail for the sake of better illustration,—the normal position of the key being horizontal; Fig. 2 is an end elevation; Fig. 3 is a plan view of the end of the bar and connecting parts; Fig. 4 is a vertical longitudinal section through the end of the bar; Fig. 5 is a perspective of the block; Fig. 6 is a plan of the key; and, Fig. 7 is a perspective of the key locking member.

Referring to the parts, 1 designates a headed bar having at its headed end an oval shoulder 2 and having adjacent its opposite end a longitudinal slot 3, having a straight wall 4 at one end and a beveled wall 5 at the opposite end.

Slidably disposed on the bar 1 is a block 6 having a bore adapted to receive the bar 1 and having in one face a transverse groove.

Disposed through the slot 3 and lying with one edge in the groove 7 is a key 8, having one straight edge 9 and having its opposite side 10 beveled and arranged to bear on the beveled wall 5 of the slot 3, so that when the key 8 is driven in its beveled side acting on the beveled wall 5 secures quick adjustment of the block 6 longitudinally of the bar 1. The straight wall 4 of the bar 1 and the groove 7 of the block 6 are adapted to receive the straight side 9 of the key and to afford a solid bearing therefor. Extending from the sides 9 and 10 of the key adjacent one end are slots 11, adapted to receive lugs 12 of a securing or locking member 12^a, so that said member is retained on the key when it is driven into the slots 3 and groove 7. To lock the key against retraction, the tapered end 13 of the locking member 12^a is bent up slightly as best shown in Fig. 2. To facilitate the insertion of the member 12^a one side is cut away as at 14 so as to leave a beveled face 15 and a straight side 16. In inserting the key 8 in the member 12^a, the tapered ends of these members readily enter the slot 3 and the beveled face 15 of the locking member 12^a guides said member into the groove 7 with little friction.

The rail A, the fish plates B having oval openings C are all of common construction. The slots C are made of a size so that the oval shoulder 2 prevents the bar 1 from turning so that the key 8 is normally held in a horizontal position to facilitate its insertion into the slot 3.

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

In a fastening device, a headed bar, a block thereon, a longitudinal slot 3 through said bar, a transverse groove 7 in the face of

said block adapted to coöperate with the slot
in said bar, a two-part locking device com-
prising a key 8 and a coöperating locking
member 12^a, both of said members being
5 adapted for insertion into the aforesaid slot
and groove to thereby lock the members to-
gether, slots in the aforesaid key 8, and lugs 12
on the aforesaid locking member adapted to

engage said slots to thereby lock said key and
locking member together. 10

In witness whereof I have hereunto set
my hand in the presence of two witnesses.

GEORGE WILLIAM HOOVER.

Witnesses:

W. L. WICKETT,

EDNA CAMPBELL.