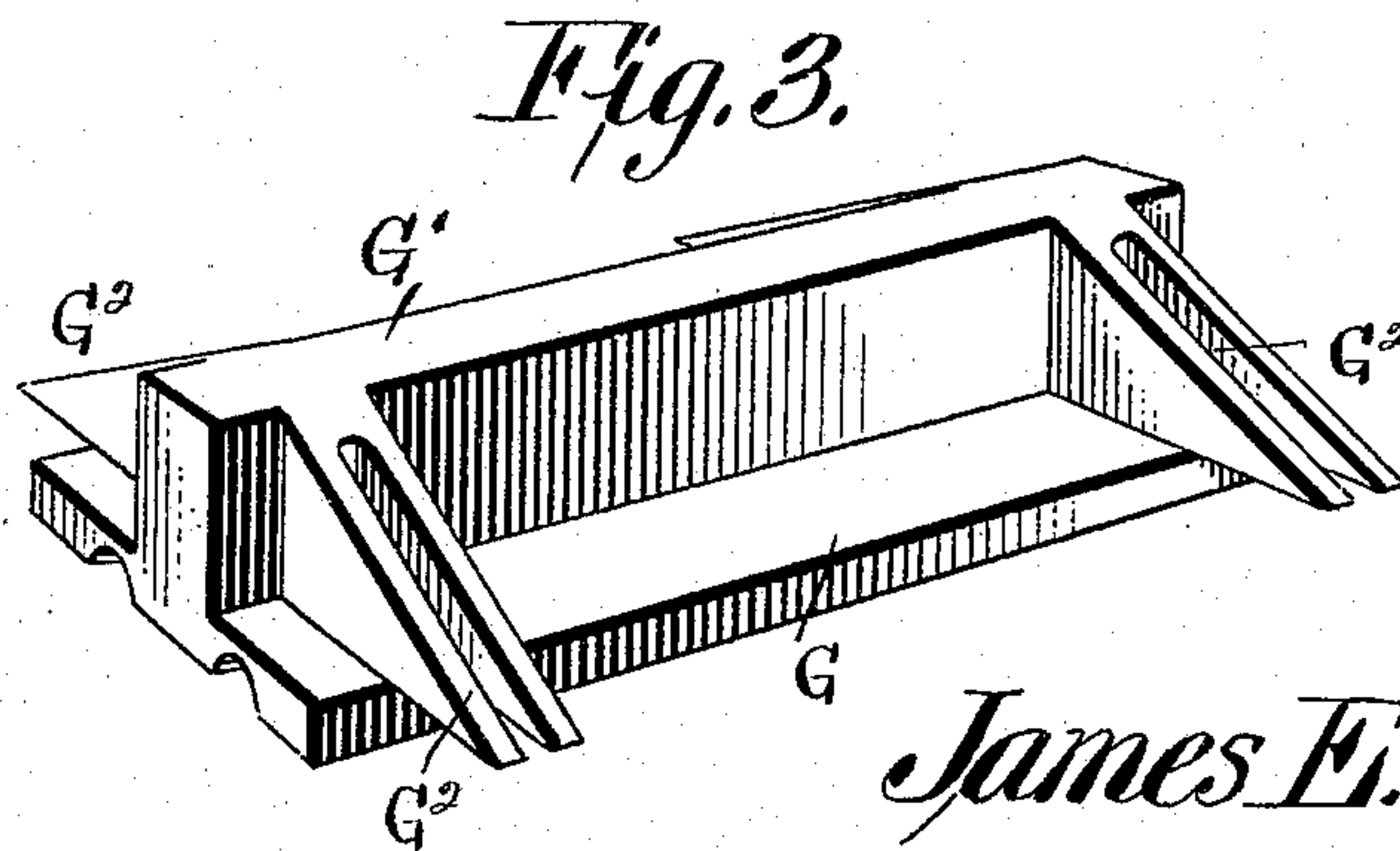
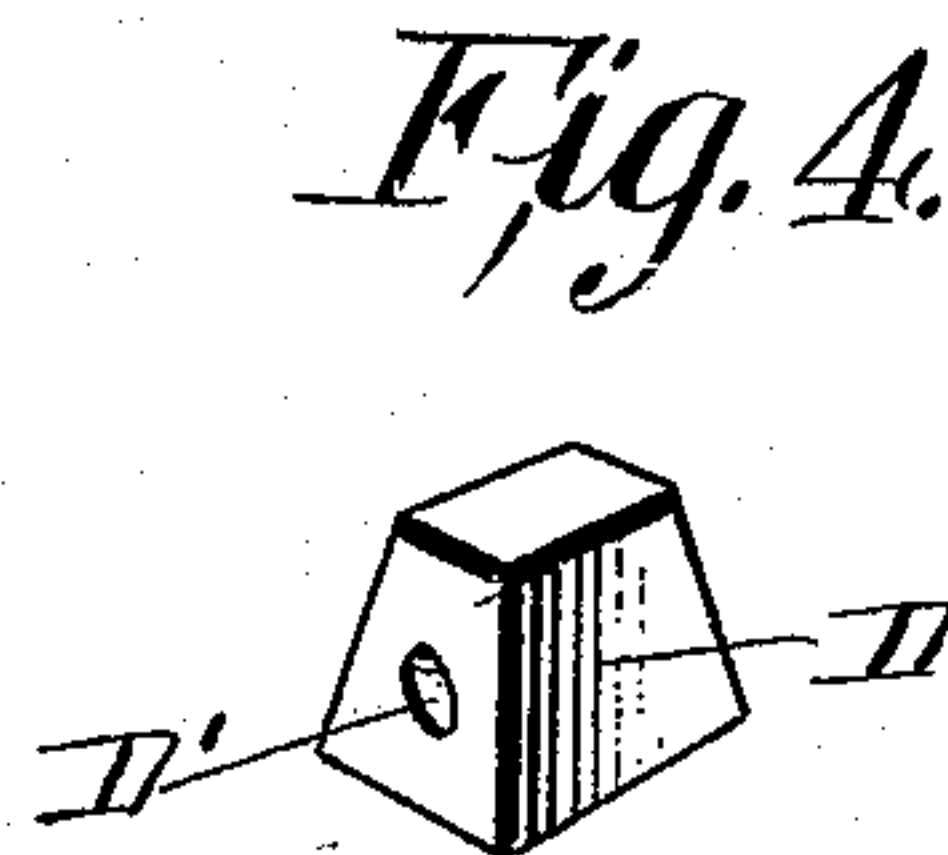
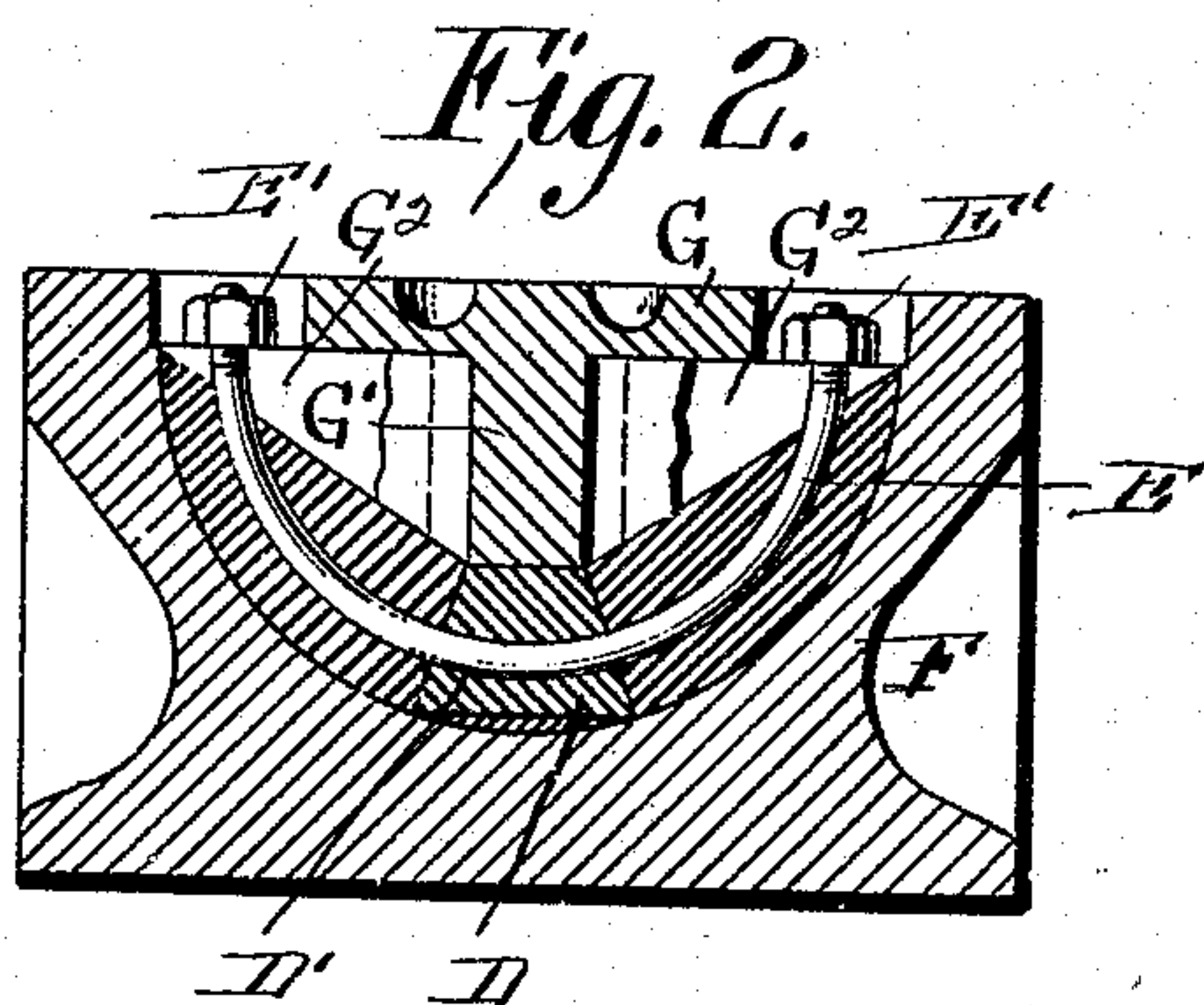
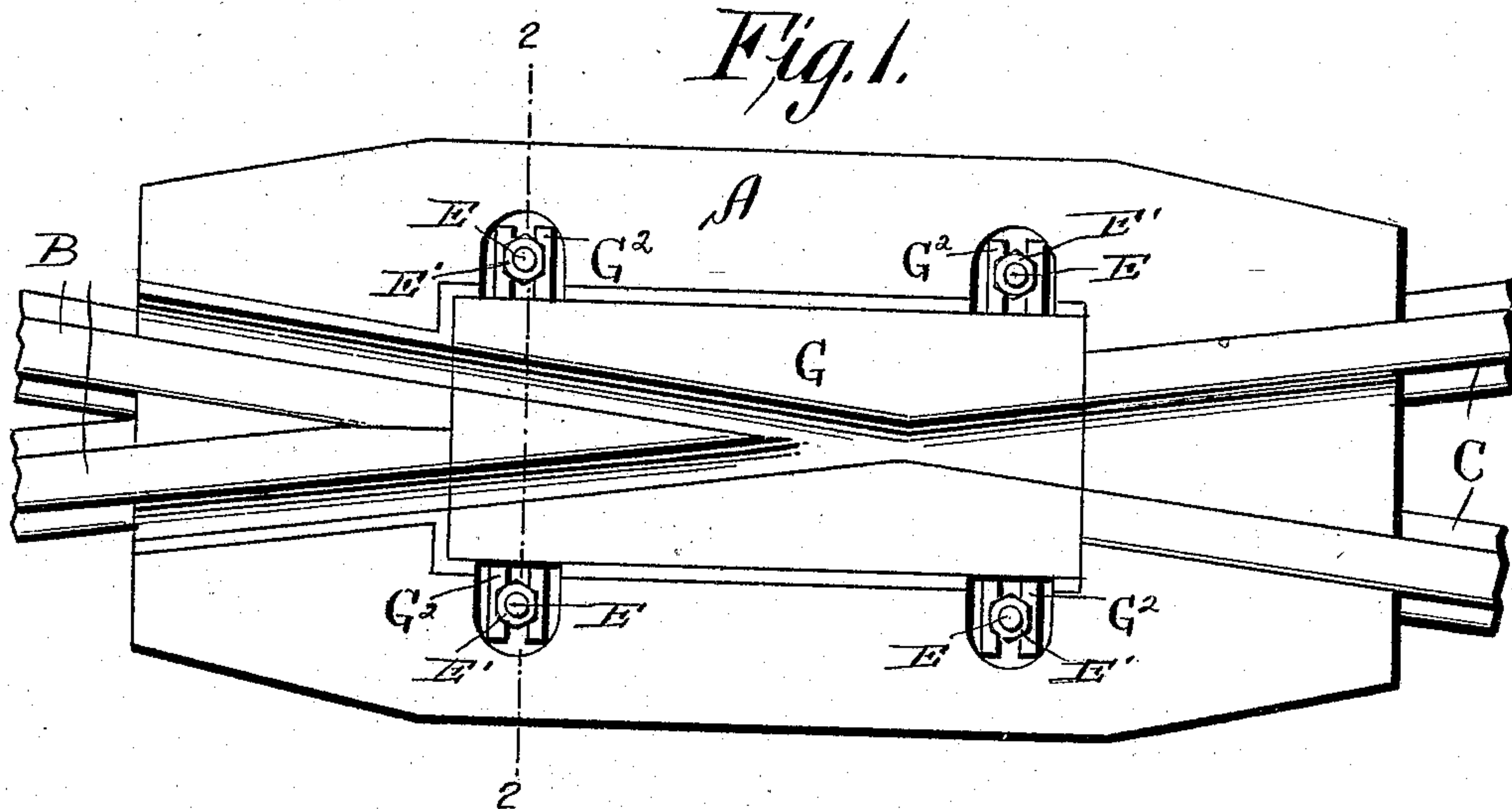


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J. E. LEWIS.
RAILROAD TRACK FROG.
APPLICATION FILED MAY 23, 1908.

Patented Feb. 2, 1909.
2 SHEETS—SHEET 1.



Witnesses

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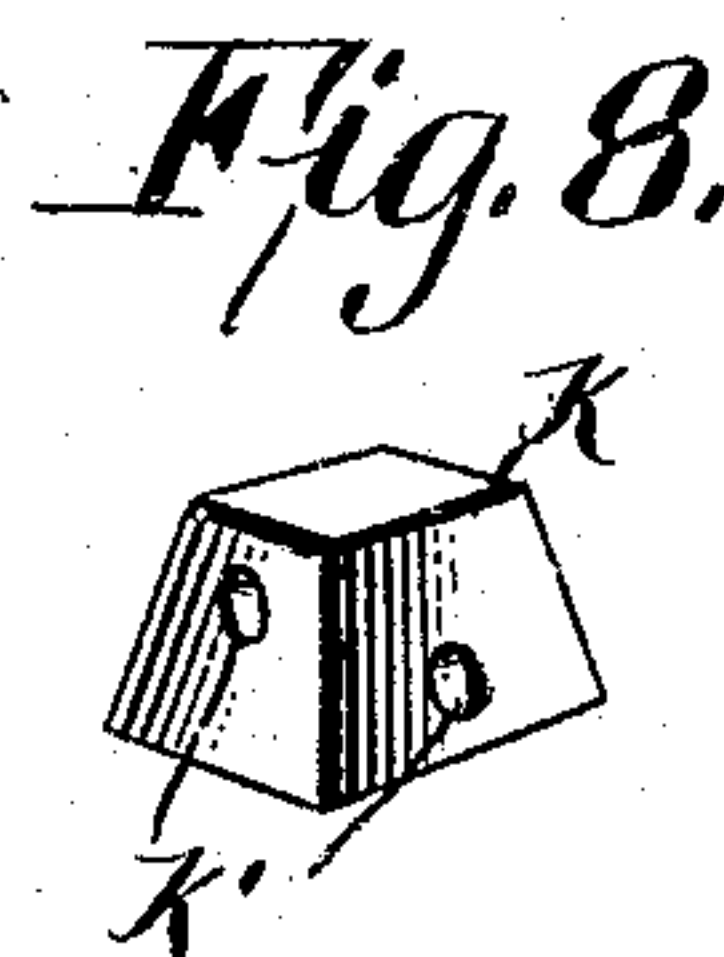
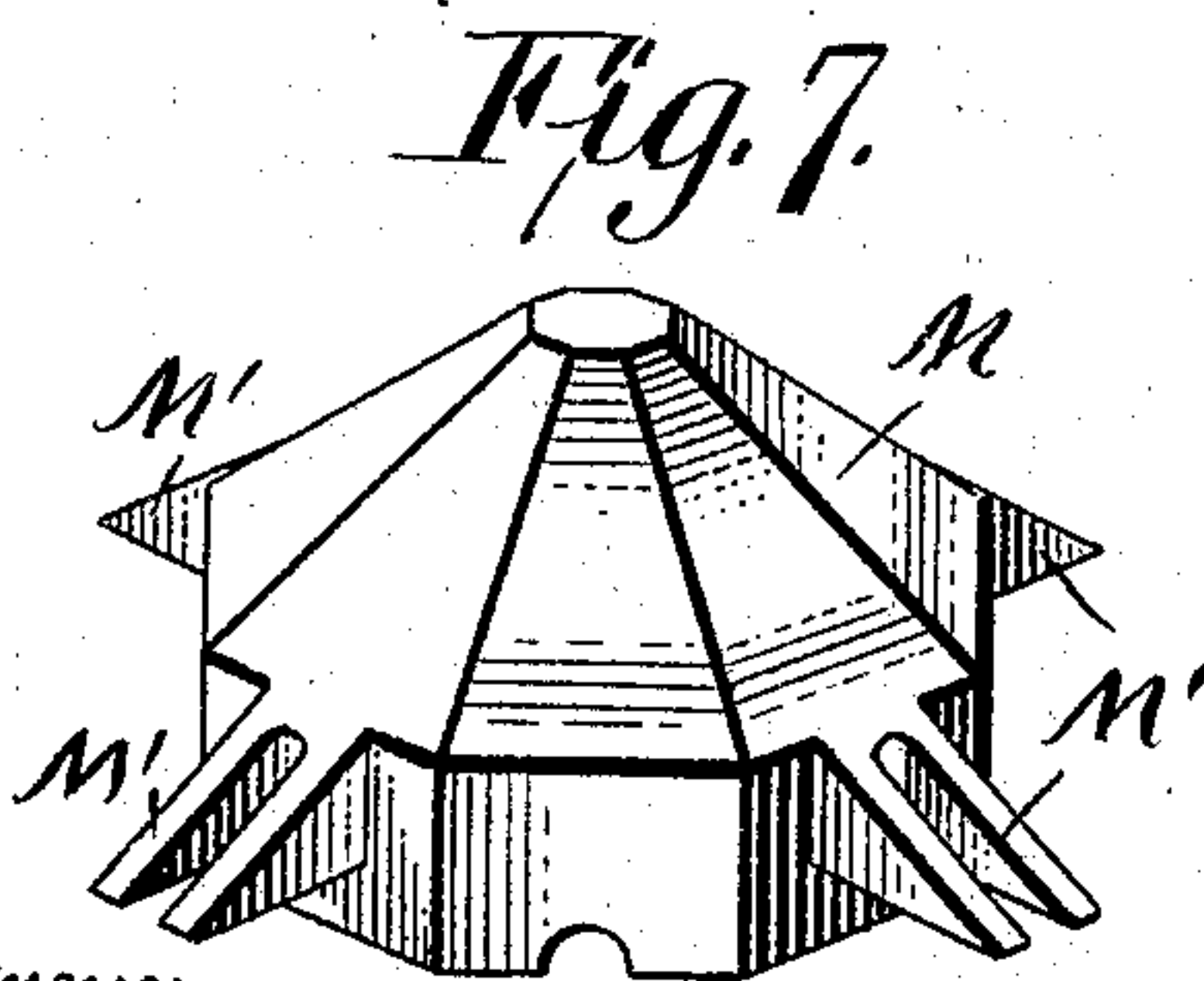
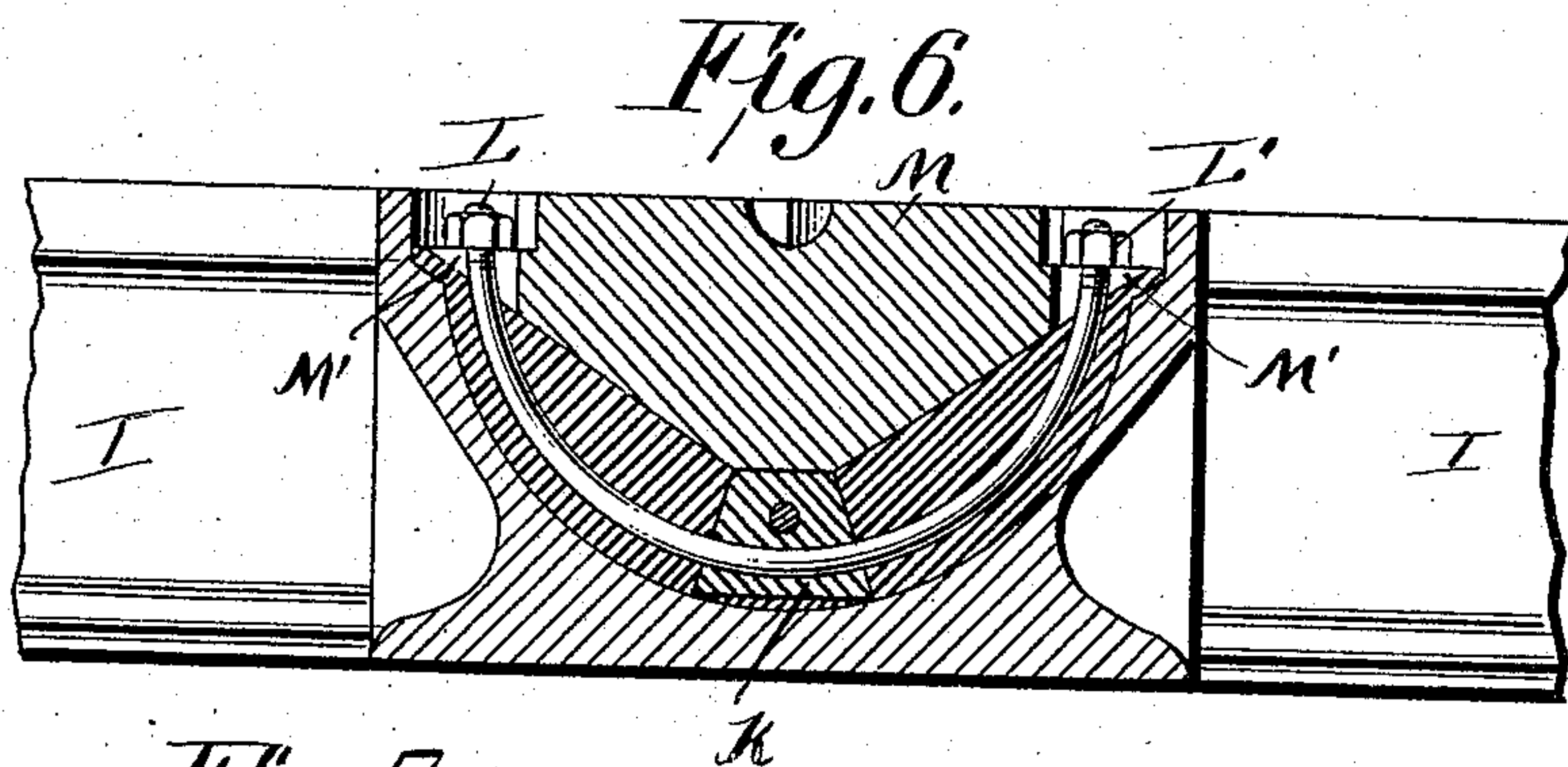
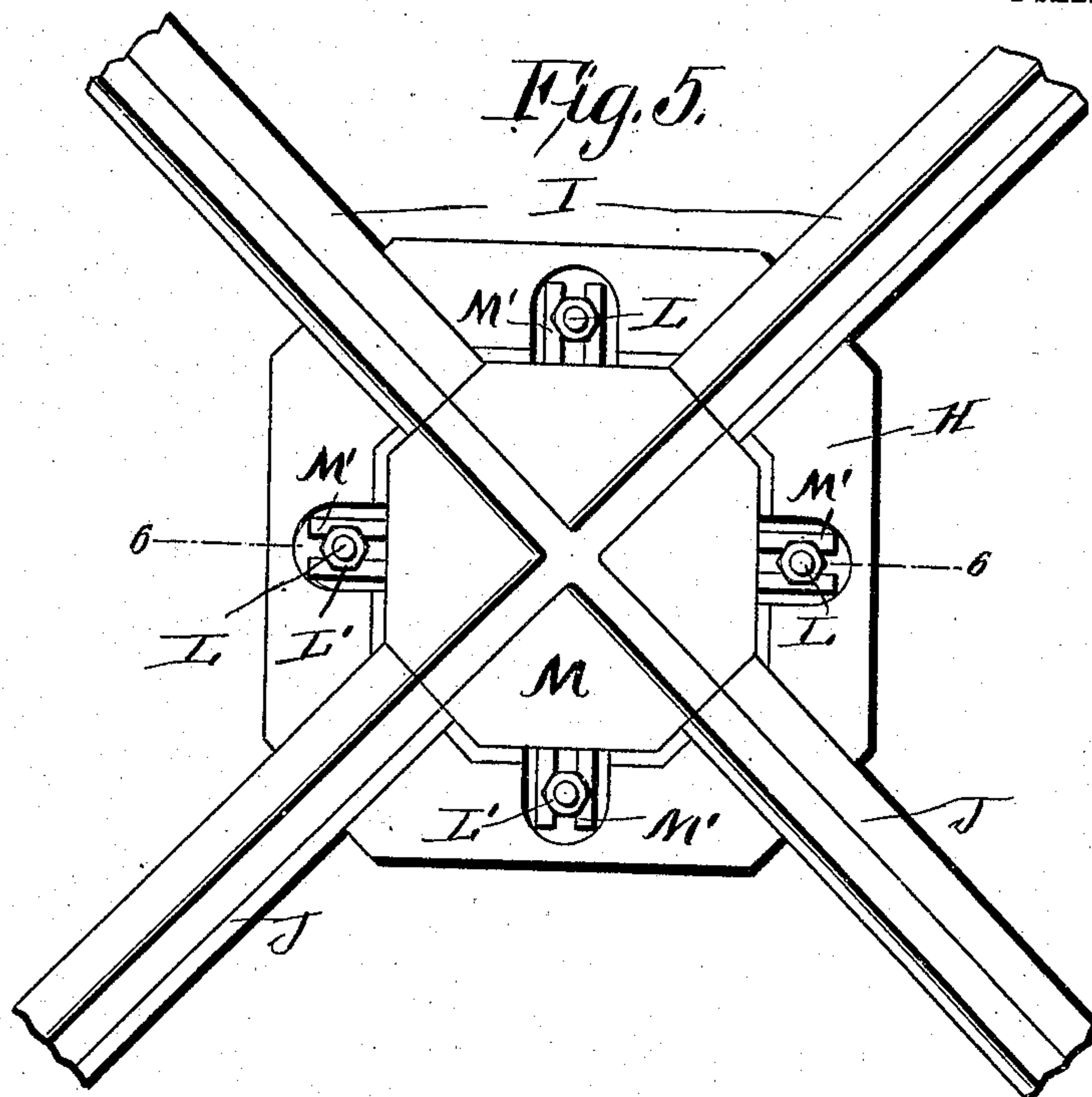
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UNITED STATES PATENT OFFICE.

JAMES E. LEWIS, OF STEELTON, PENNSYLVANIA.

RAILROAD-TRACK FROG.

No. 911,054.

Specification of Letters Patent.

Patented Feb. 2, 1909.

Application filed May 23, 1908. Serial No. 434,609.

To all whom it may concern:

Be it known that I, JAMES E. LEWIS, a citizen of the United States, residing at Steelton, in the county of Dauphin and State of Pennsylvania, have invented new and useful Improvements in Railroad-Track Frogs, of which the following is a specification.

This invention relates to railroad track frogs, the object being to provide a frog with a removable wear-plate which is preferably formed of hardened metal, thereby enabling the removal of the same so that a new one can be inserted without tearing up the railroad bed.

Another object of my invention is to provide very novel means for securing the wear-plate in place so that it is impossible for the same to move.

A further object of my invention is to provide very novel means for securing the fastening bolt in the body so that it will be securely held in position to receive the arms of the wear-plate.

With these and other objects in view, the invention consists in the novel features of construction, combination and arrangement of parts hereinafter fully described and pointed out in the claims.

In the drawings forming a part of this specification:—Figure 1 is a top plan view of my improved frog constructed for a switch. Fig. 2 is a section taken on line 2—2 of Fig. 1. Fig. 3 is an inverted perspective view of the wear-plate. Fig. 4 is a perspective view of the locking block. Fig. 5 is a top plan view of the frog constructed for a crossing. Fig. 6 is a section taken on line 6—6 of Fig. 5. Fig. 7 is an inverted perspective view of the wear-plate used in the crossing frog, and Fig. 8 is a perspective view of the locking block for securing the plate in place.

In Figs. 1, 2, 3 and 4 I show a frog used for a switch in which A indicates a base-block which is provided with converging slots at its ends in which the ends of the rails B and C are secured which extend into the block to the end wall of the recess formed in its face which is provided with a central groove and oppositely disposed dove-tail slots adjacent its end, which extend outwardly into the base for the purpose hereinafter described.

Arranged in the dove-tail slots are locking blocks D which are provided with bores D', the blocks being secured therein by sliding the blocks down into the grooves from one

side and arranged in the bores D' are U-shaped bolts E the ends of which extend upwardly adjacent the face of the base-block, the bolts and locking-block being secured therein by pouring melted metal into the grooves, as shown at F. The wear-plate G is then placed in the recess of the base-block, the plate being provided with the central rib G' which rests on the top of the locking block D and with oppositely disposed bifurcated tapering arms G² adjacent its end which are adapted to fit over the bolts E and be secured thereon by nuts E', the plate resting in the recess so that the face of the same will be flush with the top of the base-block. The face of the wear-plate also being provided with grooves which register with the rails arranged in the base-block, and it will be readily seen that by loosening the nuts the wear-plate can be readily removed and a new one inserted.

In Figs. 5, 6, 7, and 8 I show a frog especially adapted to be used for a crossing, but which is substantially the same as the switch-frog, and comprises a base-block H provided with radial slots in which are arranged the ends of rails I and J which extend into the block flush with the wall of the recess formed therein which is provided with oppositely disposed dove-tail slots, in which is secured a locking block L which is provided with bores K' extending transversely through the same from opposite sides in which are arranged U-shaped bolts L which are secured in place by pouring melted metal into the slots. The wear-plate M is then placed in the recess formed in the base H, and is provided with oppositely disposed tapering bifurcated arms M' which fit over the bolts L and are securely locked to the base by nuts L', the face of the block being provided with grooves registering with the rails I and J.

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

1. In a railroad frog, the combination with a base-block provided with a recess and oppositely disposed dove-tail grooves, locking blocks arranged in said grooves carrying bolts and a wearplate arranged in said recess and secured therein by said bolts.

2. In a railroad frog, the combination with a base-block provided with a recess and oppositely disposed dove-tail grooves, a locking block arranged in said groove carrying

bolts, and a wear-plate arranged in said recess provided with bifurcated arms adapted to fit over said bolts and be secured in said recess by nuts working on said bolts.

5 3. In a railroad frog, the combination with a base-block provided with converging grooves adapted to receive rails and a central recess, means for securing U-shaped bolts in said base, and a wear-plate provided
10 with bifurcated arms adapted to be secured in said recess of the base by said bolts.

4. In a railroad frog, the combination with a base adapted to receive the ends of rails and provided with a central recess having op-
15 positively disposed dove-tail grooves, of a dove-tail block arranged in said grooves provided with a bore, U-shaped bolts secured in said bore, and a wear-plate provided with oppositely disposed bifurcated tapering arms

adapted to be arranged in said recess and
20 groove and over said bolt, for the purpose described.

5. A railroad frog comprising a base-block provided with a recess having a longitudinal
25 groove and oppositely disposed transverse dove-tail grooves, of a locking block arranged in said grooves carrying a U-shaped bolt adapted to be secured in said groove by fill-
ing said groove with melted metal, and a
30 wear-plate provided with a central rib arranged in the groove of the recess and provided with oppositely disposed bifurcated arms adapted to be secured over said bolts for the purpose described.

JAMES E. LEWIS.

Witnesses:

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HENRY G. POSEY.