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M. L. DUNHAM.
RAILWAY RAIL CHAIR.
APPLICATION FILED JAN. 25, 1907.

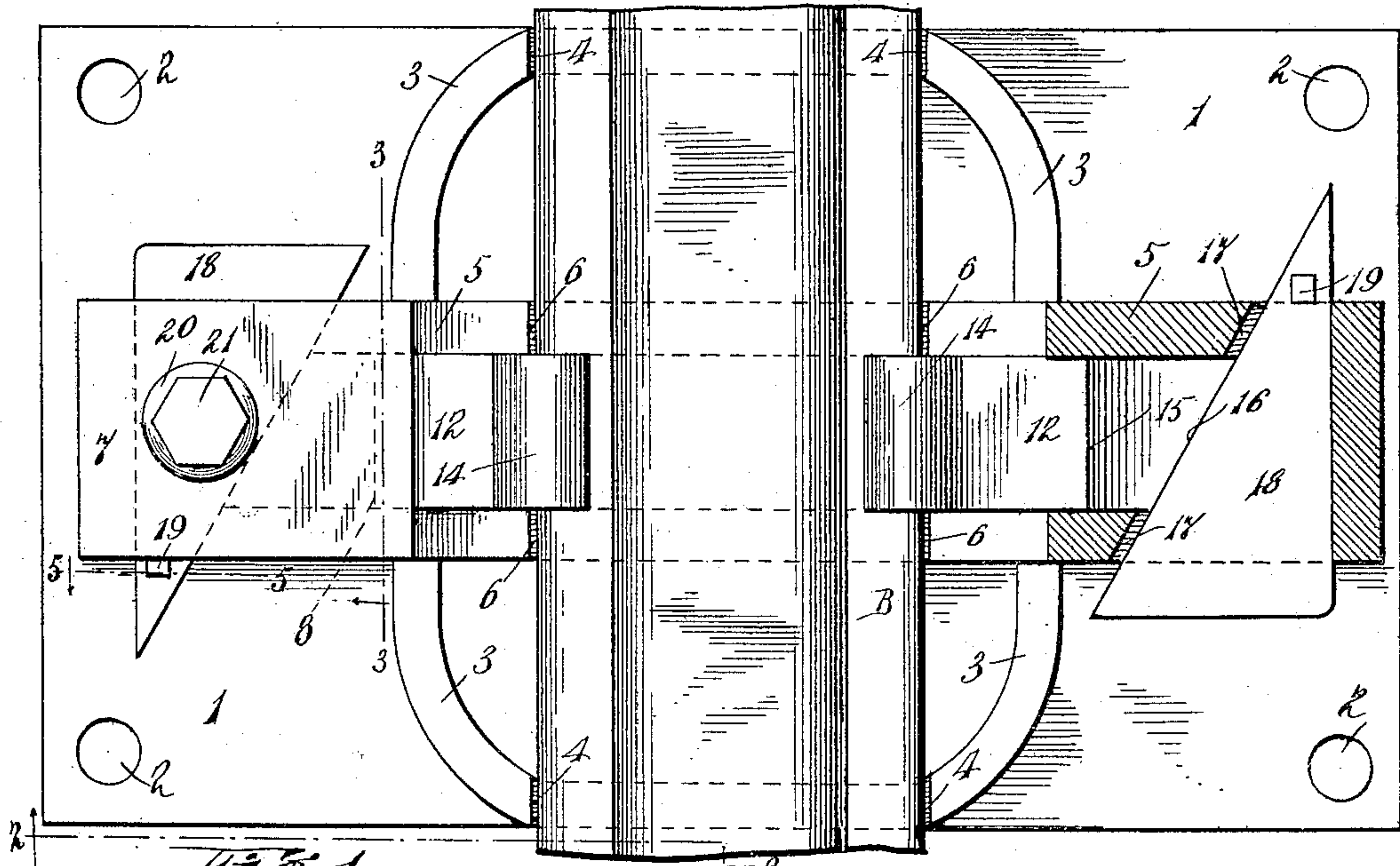


Fig. 1

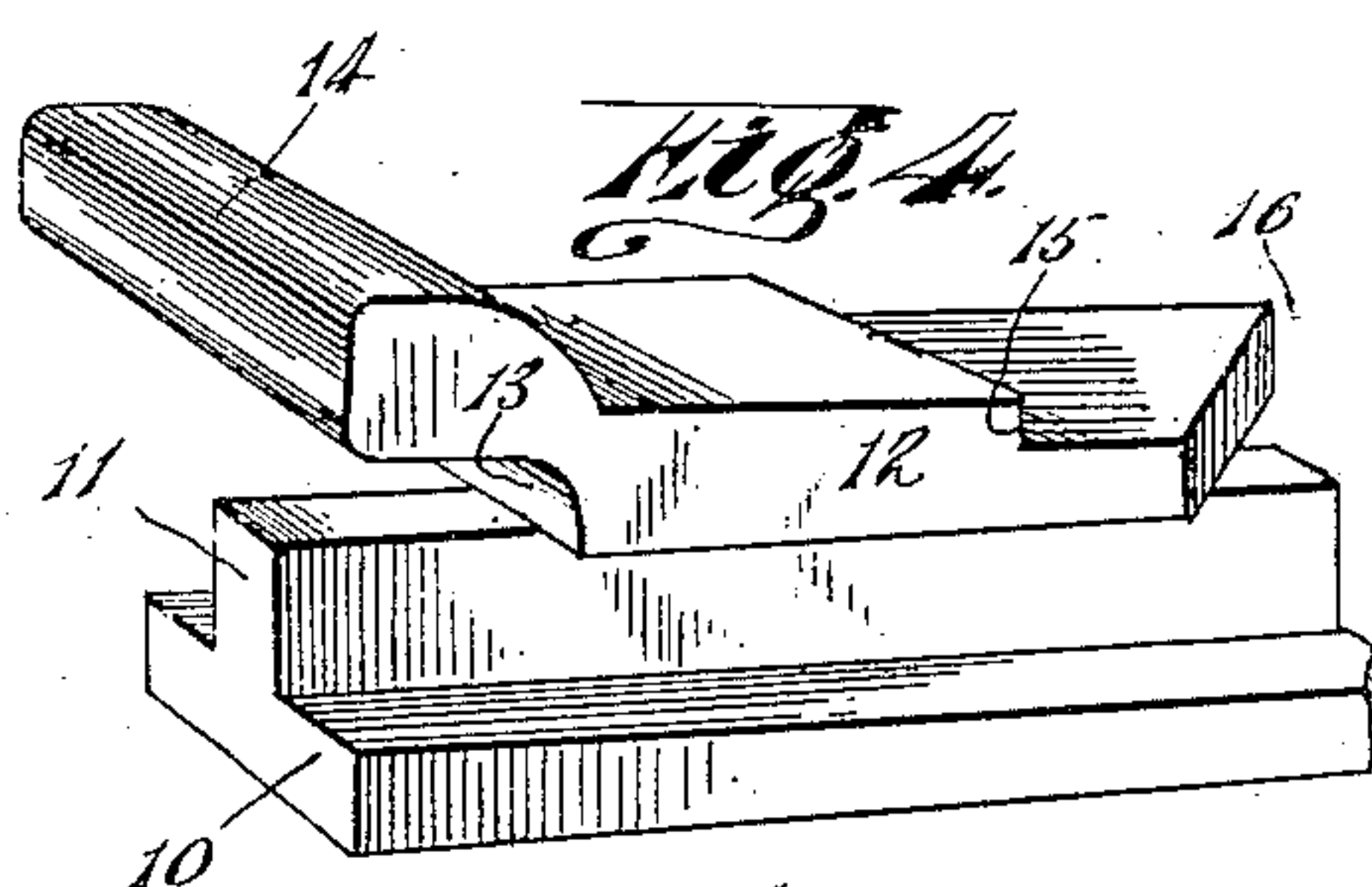


Fig. 4

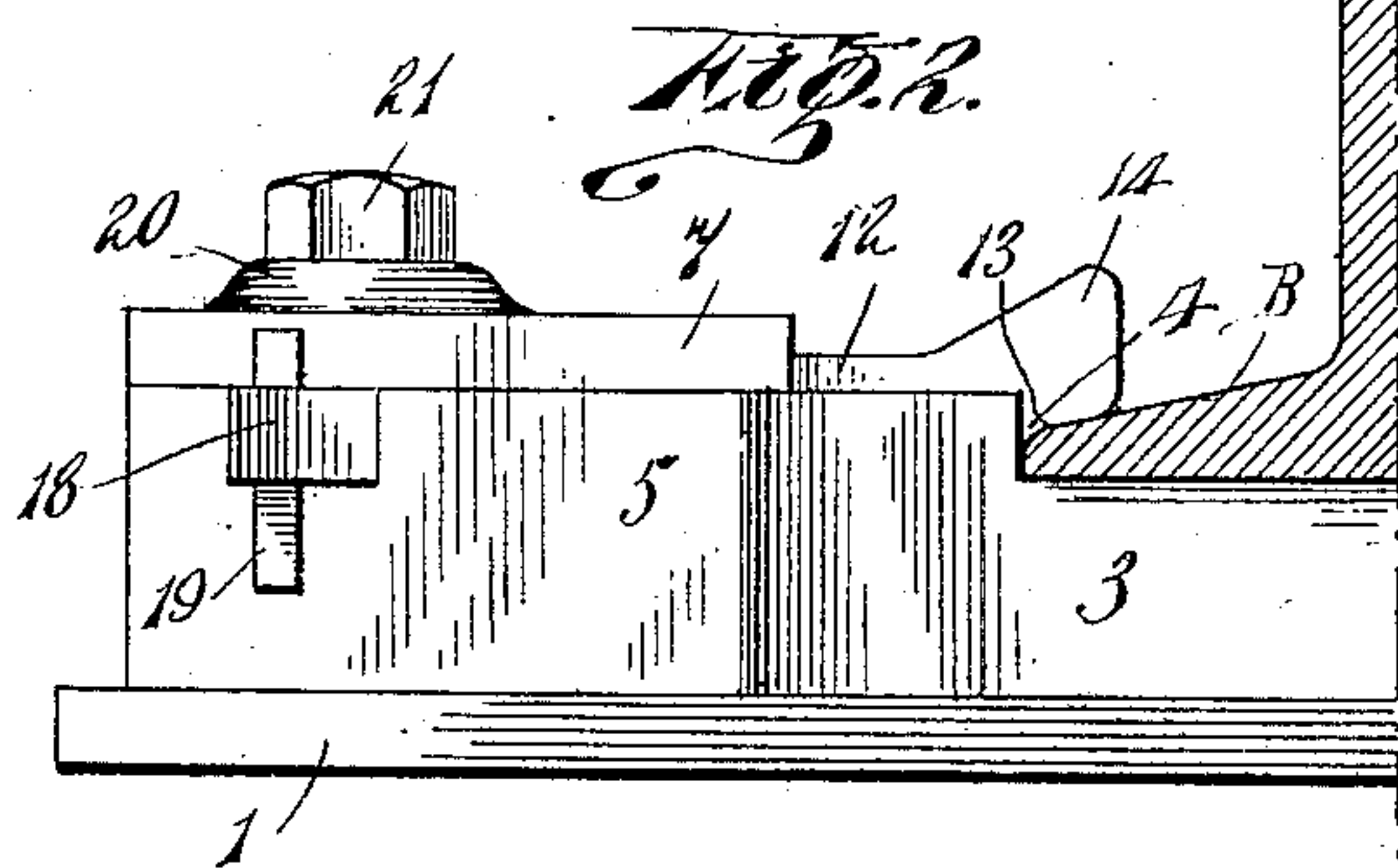


Fig. 2

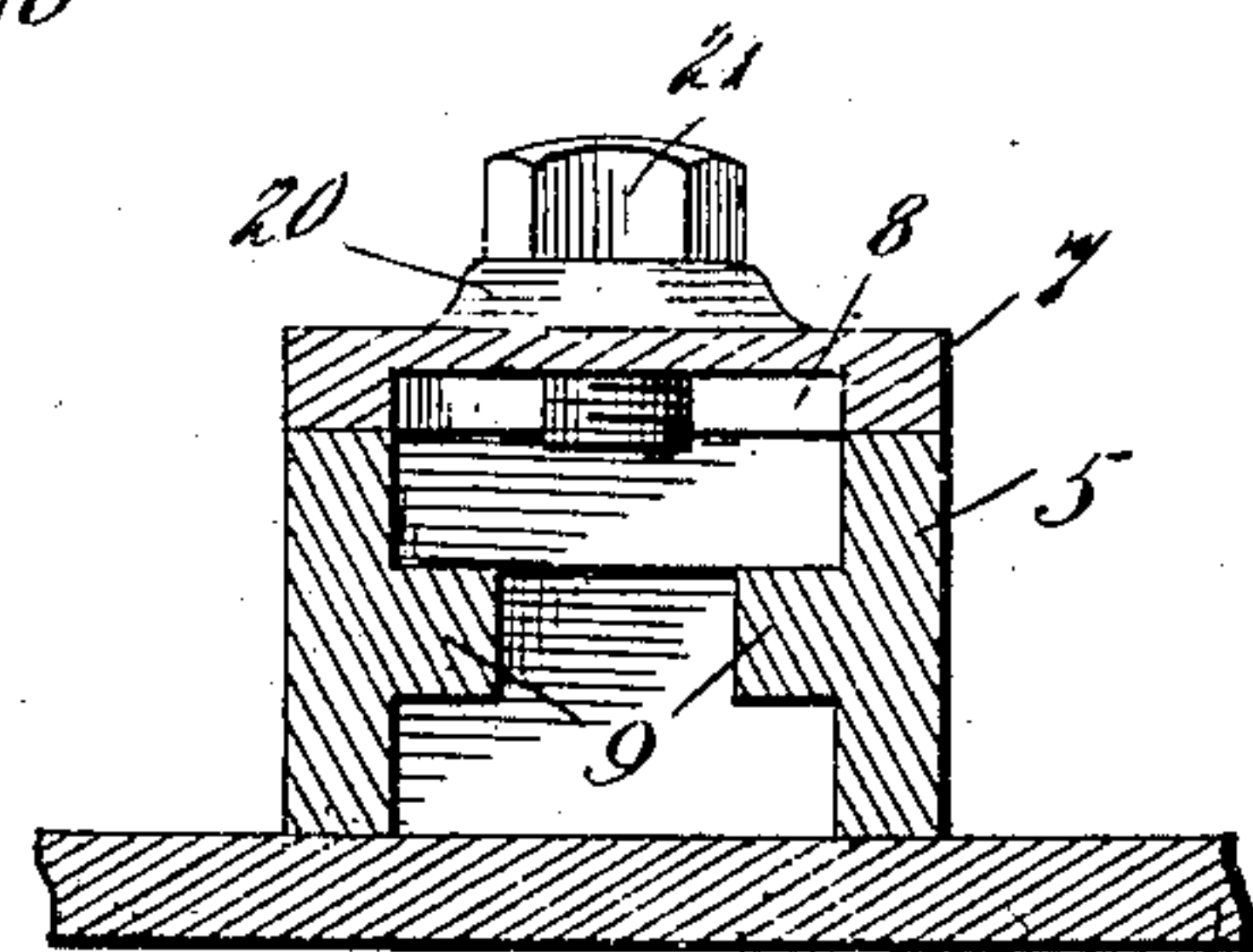
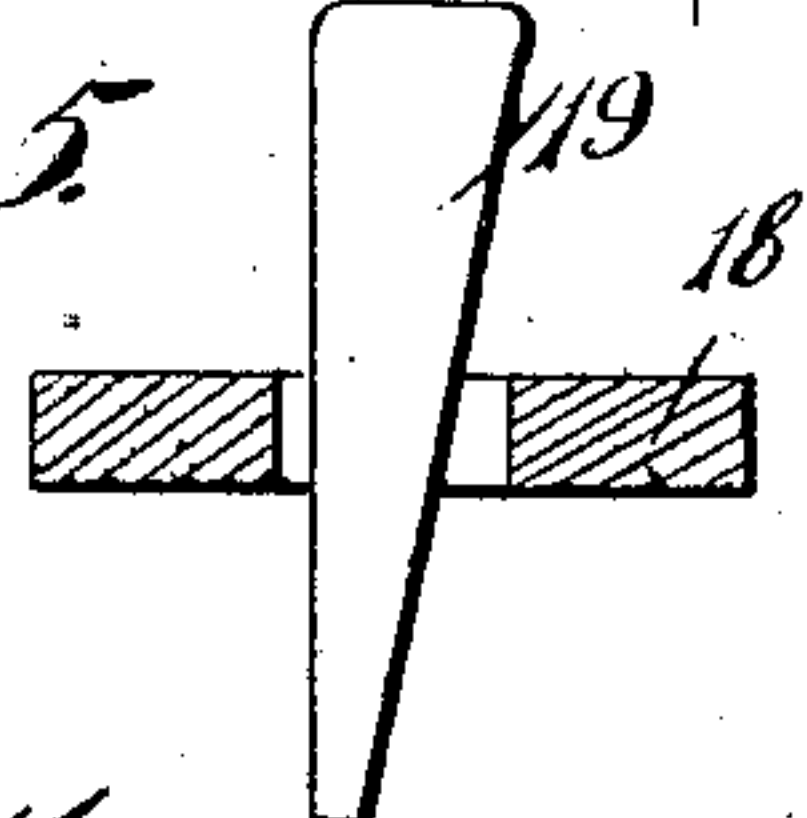


Fig. 3

Fig. 5



Witnesses:

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UNITED STATES PATENT OFFICE.

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RAILWAY-RAIL CHAIR.

No. 863,367.

Specification of Letters Patent.

Patented Aug. 13, 1907.

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To all whom it may concern:

Be it known that I, MORTON LINCOLN DUNHAM, a subject of the King of Great Britain, residing at Frankville, county of Leeds, in the Province of Ontario, Canada, have invented certain new and useful Improvements in Railway-Rail Chairs; 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 rail chairs for railway rails; the object of my invention is to provide a chair which will receive the base of a rail to prevent lateral movement thereof; a further object is to provide slidable locking members which may be adjusted to fit any sized rail; a further object is to provide means for securing the slidable locking member against movement; 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 plan view, partly in horizontal section; Fig. 2 is a vertical section on line 2—2 of Fig. 1, looking in the direction indicated by the arrow; Fig. 3 is a vertical section on line 3—3 of Fig. 1, looking in the direction indicated by the arrow, the slidable locking member of Fig. 4 being removed; Fig. 4 is a perspective of one of the slidable locking members; and Fig. 5 is a vertical section on line 5—5 of Fig. 1.

Referring to the drawings, 1 designates a plate having openings 2 therein, to receive securing members adapted to work into the ties. The plate 1 is provided with a flange 3, provided with recesses 4 adapted to receive the base B of an ordinary form of rail, and to prevent lateral movement thereof. Disposed longitudinally of the plate 1 is a housing 5, provided with recesses 6, also adapted to receive the base of a rail B. The top 7 of the housing 5 extends for a portion of its length from each end, and terminates so as to permit movement of the slidable members hereinafter described. The under side of the top of the housing is provided with shoulders 8 adjacent each of its inner ends, to limit the movement away from the rail of a slidable locking member hereinafter described. The side walls of the housing 5 are provided with interiorly projecting longitudinal ribs 9, adapted to form guideways. Slidably disposed in each of the housings beneath the ribs 9, are base members 10, each having an integral tongue 11, which lies between the ribs 9, and to which are secured the plates 12. Each of the plates 12 is provided with a cut away portion 13, adapted to engage over the base B of the rail, and each is also provided with an upturned flange 14, which flanges are slightly thickened to withstand the strain exerted thereon by the rail B. Each

of the plates 12 is provided with a shoulder 15, adapted to abut against the shoulders 8 formed on the top 7 of the housings 5, so that the movement of the plates 12 away from the rail is limited. Each of the plates 12 is provided with a beveled face 16 at the outer end thereof. The side walls of the housing 5 are provided with tapered slots 17, adapted to receive the tapered wedges 18 which bear against the beveled faces 16, and force the plates 12 inward until they engage with and lock the base of the rail B. Tapered pins 19 are disposed through the wedge shaped members 18 to prevent the same from becoming displaced when they are unlocked. Each of the top sections 7 of the housing 5 is provided with an interiorly screw-threaded boss 20, through which works a locking bolt 21, adapted when in its locking position, to bear upon the upper surface of the wedge shaped member 18 adjacent thereto.

In the operation of the invention, the plate 1 is first fixed in position on the tie, the slidable locking members are disposed in the housing and actuated outwardly until the shoulders 15 abut against the shoulders 8. The rail B is then set in the recesses 4 and 6, and the locking members actuated inwardly until the flange of the rail is engaged by the flanges 14 of the slidable members. The wedge shaped members 18 are then inserted in the slots 17, and driven up hard so as to lock the rail in position. The locking bolts 21 are then screwed down so that movement of the slidable members is impossible. The tapered wedges 19 are simply to prevent the displacement of the wedge shaped members 18 when the locking bolts 21 are removed.

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

1. In a rail chair, the combination comprising a base plate, a housing carried on the plate, slidable locking members carried by the housing, means for forcing the locking members towards the center of the plate, means for locking and forcing means in position, and means for maintaining the forcing means in position when the locking means are removed.

2. In a rail chair, the combination comprising a base plate provided with a flange having rail receiving recesses therein, a housing disposed on the plate and provided with rail receiving recesses therein, slidable locking members carried by the housing, means for forcing the locking members towards the center of the plate, and means for locking the forcing means in position.

3. In a rail chair, the combination comprising a base plate provided with rail receiving recesses, a housing carried longitudinally of the plate and provided with rail receiving recesses intermediate of its ends, slidable locking members carried by the housing, means for forcing the locking members towards the center of the plate, and means for forcing the locking means in position.

4. In a rail chair, the combination comprising a base plate, a housing carried longitudinally of the base plate, and provided with longitudinally interiorly extending ribs for a portion of its length and provided with a rail receiving recess, slidable locking members disposed in the guideway formed by said longitudinal ribs and provided

with recessed upturned inner ends, means for forcing the slidable members inwardly, means for locking the forcing means in position, and means for maintaining the forcing means in position when the locking means are removed.

5 5. In a rail chair, the combination comprising a base plate, a housing disposed on the base plate and provided with a rail receiving recess, a top disposed on the housing and extending from its ends to a point intermediate thereof and provided with a shoulder, slidable members
10 disposed in the housing and provided with shoulders adapted to abut against said shoulders on the top, means for forcing the slidable members inward, and means for locking the slidable members against movement.

15 6. In a rail chair, the combination comprising a base plate, a housing disposed on the base plate and provided with a rail receiving recess intermediate of its ends, and provided with longitudinally extending interiorly projecting ribs, slidable members disposed in the housing each
20 comprising a base disposed beneath said ribs, a tongue

disposed between said ribs, and a plate disposed on said tongue and provided with an upturned end adapted to engage the base of the rail, means for actuating said slidable members inwardly, and means for locking said actuating means.

25 7. In a rail chair, the combination comprising a base plate, a housing carried by the plate, slidable locking members carried by the housing, tapered wedges disposed through the walls of the housing and adapted to bear on the slidable members, interiorly screw-threaded bosses
30 formed on the tops of the housing, and set-screws disposed through the interiorly screw-threaded bosses.

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

MORTON LINCOLN DUNHAM.

Witnesses:

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