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I. L. KISER.

HINGE JOINT.

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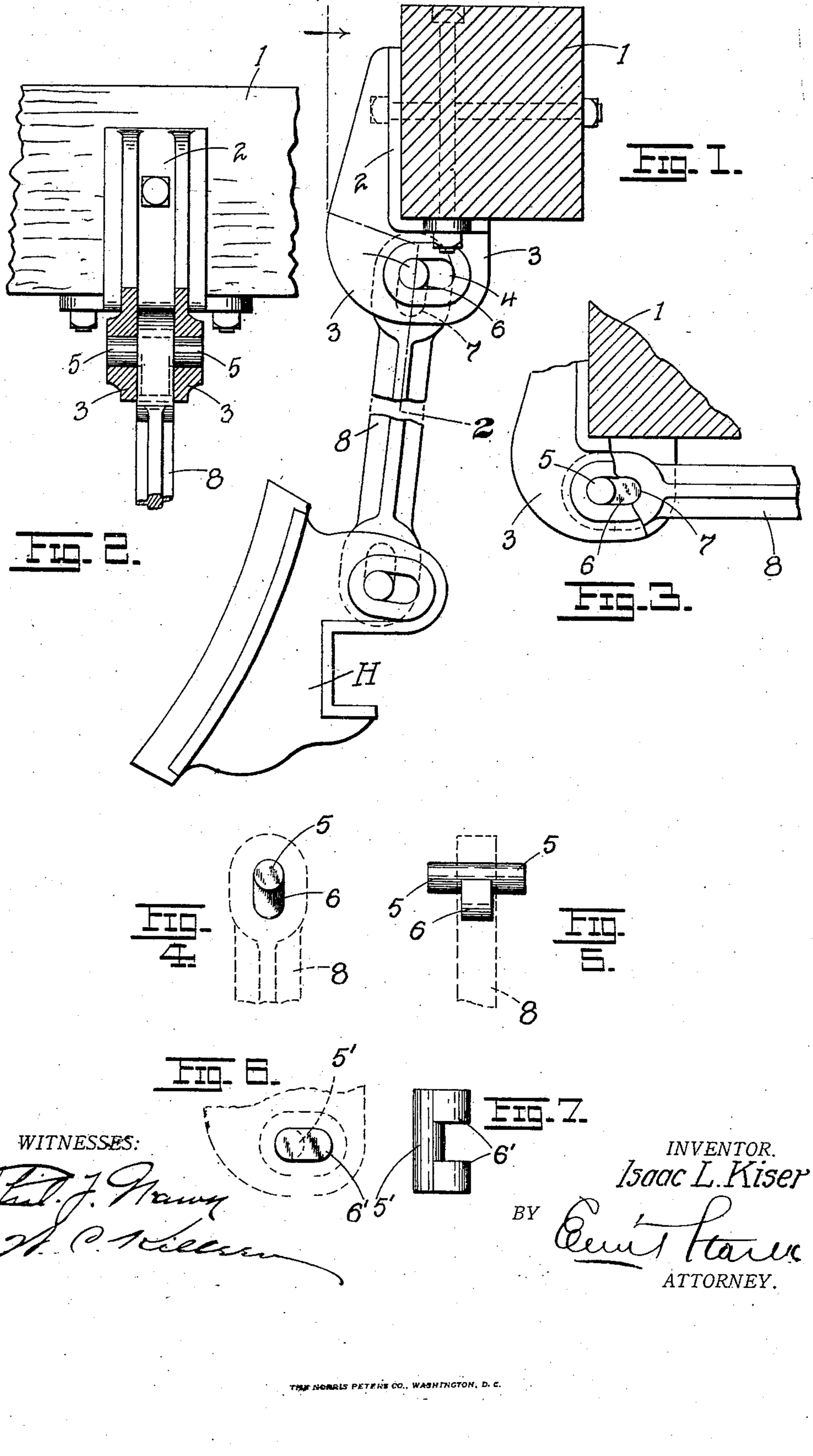

Fig. 2.

Fig. 1.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Fig. 7.

WITNESSES:

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HINGE-JOINT.

No. 883,893. Specification of Letters Patent. Patented April 7, 1908.

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To all whom it may concern:

Be it known that I, ISAAC L. KISER, a citizen of the United States, residing at St. Charles, in the county of St. Charles and State of Missouri, have invented certain new and useful Improvements in Hinge-Joints, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention has relation to improvements in hinge-joints and it consists in the novel details of construction more fully set forth in the specification and pointed out in the claims.

In the drawings, Figure 1 is a side elevation of a brake-shoe hanger showing my invention applied thereto; Fig. 2 is a vertical transverse section on the broken line 2—2 of Fig. 1; Fig. 3 is a side elevation showing position of the hinge members in the act of assembling the same; Fig. 4 is an end view of the hinge-pin; Fig. 5 is a side view thereof; Fig. 6 is an end view of a modified form of pin; and Fig. 7 is a side view of Fig. 6.

The object of my invention is to construct a hinge-joint having a hinge-pin which will remain permanently locked in position for a normal or prevailing relation assumed by the hinge members coupled thereby, but can be instantly removed when the parts are swung to a position corresponding to that at which the parts are originally assembled. While my joint is herein illustrated in connection with a brake-beam hanger, it may be employed in any jointed structure.

In detail the invention may be described as follows:

Referring to the drawings and for the present to Figs. 1 to 5 inclusive, 1 represents a timber of a car to which the bracket 2 is secured, the latter terminating in extension walls 3, 3, as shown. These walls have formed therein the alining horizontal slots 4, which receive the hinge-pin 5 the pin having formed thereon an angularly disposed lug or arm 6 which is adapted to be received by the elongated slot 7 of the hanger 8, the pin 5 passing through the slot 7 as shown. When the parts are being assembled the hanger 8 is swung to a position so as to bring the longitudinal axis of its slot 7 into parallelism with the axes of the slots 4, 4, when the pin 5 is inserted, the lug 6 filling the slot 7 of the hanger. When the hanger assumes its normal or depressed position, the lug 6 of the pin swings with it to a position making an angle with the axes of the slots 4, being thus bounded by the walls 3, 3, and securely locked, (Figs. 1, 2). The brake head H can be pivotally coupled in the same manner to the hanger. The application of the pin is thus obvious.

In Figs. 6 and 7 I show a modified form of pin 5′ having two lugs 6′, 6′, for engaging corresponding hinge members. The number of lugs may be varied according to circumstances. The pin may be employed in any construction where a hinge-joint is wanted and its application is not limited to the specific purpose herein illustrated. The slots in all cases are of uniform dimensions so that an ordinary lug may be accommodated thereby, irrespective of its configuration, provided the slot is large enough to receive it. Thus the slot becomes independent of the shape of the lug, and in the event of repairs, a lug may be quickly improvised which will answer the purpose of locking the parts.

Having described my invention what I claim is

In combination with two members adapted to be disposed in hinged relation to one another, and having elongated slots of uniform dimension, a pin passing through said slots for coupling the members, when the slots are set into alinement, a lug carried by the wall of the pin and engaging the slot of one of the hinge-members, the lug being swung out of alinement with the slots of the adjacent hinge member for a normal position of the member engaged by the lug, substantially as set forth.

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

ISAAC L. KISER.

Witnesses:

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