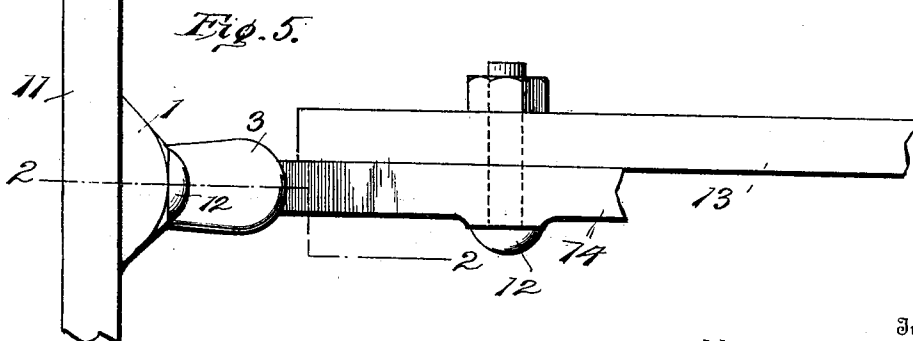
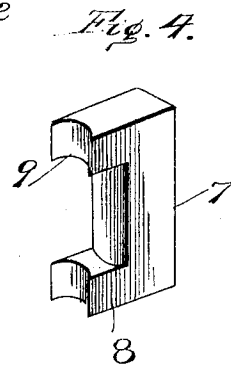
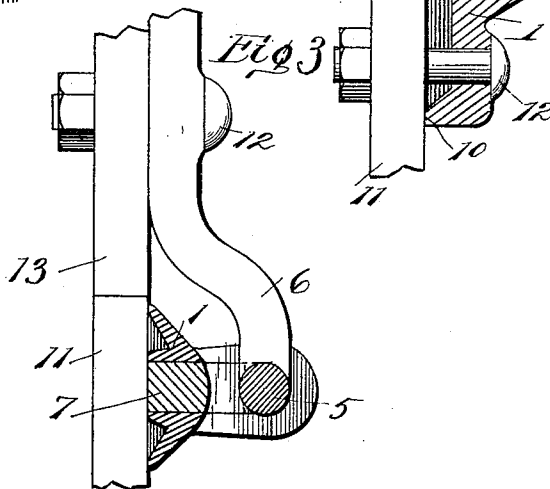
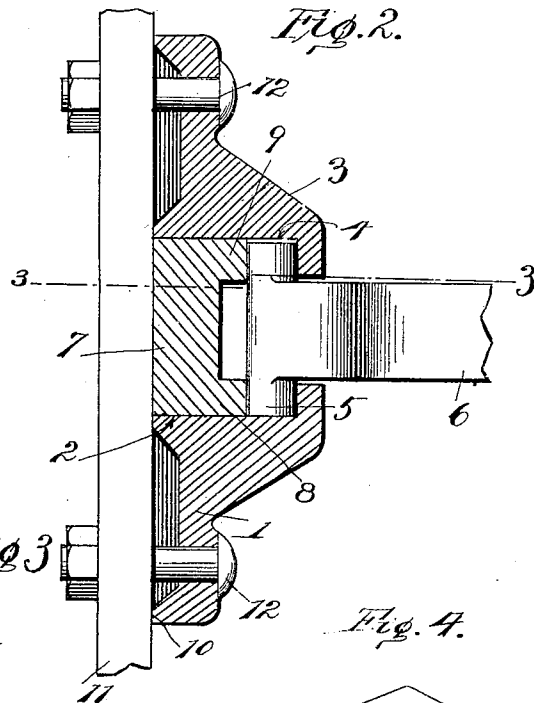
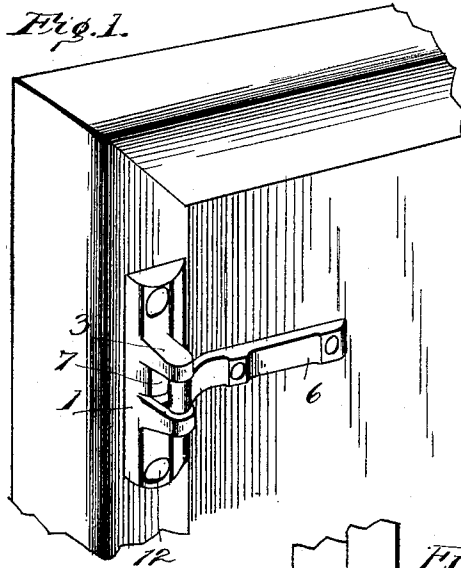


No. 814,546.

PATENTED MAR. 6, 1906.

H. G. KIMPLE.
HINGE.

APPLICATION FILED MAY 1, 1905.



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HINGE.

No. 814,546.

Specification of Letters Patent.

Patented March 6, 1906.

Application filed May 1, 1905. Serial No. 258,292.

To all whom it may concern:

Be it known that I, HARRY GLEN KIMPLE, a citizen of the United States, residing at Dicksonburg, in the county of Crawford and State of Pennsylvania, have invented certain new and useful Improvements in Hinges; 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 appertains to make and use the same.

My invention relates to hinges; and its object is to provide a simple, durable, and compact device of this character which is particularly adapted for holding gates, doors, shutters, or, in fact, any like movable structure.

Another object is to provide a hinge which is formed of few parts, all of which are securely bound together by the means employed for fastening the hinge to its supporting structure.

A still further object is to provide a hinge the bearings of which are securely held against displacement.

With the above and other objects in view the invention consists of a base having recessed ears extending from opposite sides of an aperture. This aperture is wide enough to receive one end of a strap having oppositely-disposed cylindrical lugs constituting necks or bearings. A follower is located within the aperture and adapted to be held against the lugs by the structure to which the base is secured.

The invention also consists of the further novel constructions and combinations of parts hereinafter more fully described, and pointed out in the claims.

In the accompanying drawings I have shown the preferred form of my invention.

In said drawings, Figure 1 is a perspective view of my improved hinge connected to a door and door-casing. Fig. 2 is a vertical section through the base and follower thereof. Fig. 3 is a section on line 3 3, Fig. 2. Fig. 4 is a detail view of the follower, and Fig. 5 is a plan view of a modification.

Referring to the figures by numerals of reference, 1 is a base, preferably angular in form and having a central aperture 2, at opposite sides of which are formed oppositely-disposed ears 3, the inner or adjoining faces of which are grooved longitudinally, as shown at 4, to receive cylindrical lugs 5, extending from opposite edges of one end of strap 6. A fol-

lower in the form of a block 7 is adapted to be seated in the aperture 2 and has arms 8 projecting from one face provided with recesses 9 in their ends adapted to receive the lugs 5 and to hold them within the outer ends of the grooves 4. The distance from the recessed ends of these arms to the rear surface of block 7 is equal to the distance between the lugs 5 and the rear surface of the base 1. This rear surface is preferably recessed, so as to produce edges 10, which are adapted to bite upon the supporting structures 11, to which the base is fastened by means of bolts 12.

When it is desired to assemble the parts of the hinge, the strap 6 is inserted through the aperture 2 from the rear of base 1, and the lugs 5 are drawn longitudinally within grooves 4 until they reach the outer ends thereof. The follower is then placed within the aperture, so that its arms 8 will contact with the lugs 5. Base 1 can then be secured to its supporting structure 11 by means of bolts 12, and by fastening this base to its support the follower is held against displacement and serves to hold the lugs 5 securely in position and prevent the strap 6 from sagging. To detach the parts of the hinge, it is of course necessary to reverse the operation above described.

In Figs. 1 to 3 I have shown a curved strap 6, which is adapted to be used upon a door 13, which assumes a position within its casing, or, if desired, a straight strap 14 may be employed, as shown in Fig. 5.

It will be seen that this hinge is of very simple construction, in that it is formed of but three parts, and it constitutes an attractive and durable fastening for doors, &c.

In the foregoing description I have shown the preferred form of my invention; but I do not limit myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing the advantages thereof, and I therefore reserve the right to make such changes as fairly fall within the scope of my invention.

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

1. In a hinge the combination with an apertured base having oppositely-disposed grooved ears; of a strap, oppositely-extending projections thereon engaging the ears, and means within the aperture for holding the projections within the ears.

2. In a hinge the combination with an apertured base having ears adjacent its aperture, of a strap projecting between the ears, oppositely-extending projections thereon engaging the ears, and a detachable follower seated within the aperture and adapted to hold the projections against displacement.

3. In a hinge the combination with an apertured base having longitudinally-grooved ears adjacent its aperture, of a strap, oppositely-extending projections thereon rotatably mounted within the grooves, and a detachable follower within the apertured grooves for holding the projections against displacement.

4. In a hinge the combination with a supporting structure, of an apertured base secured thereto and having ears adjacent its aperture, a strap extending between and rotatably mounted within the ears, and a follower within the aperture and interposed between the strap and supporting structure.

5. In a hinge the combination with an apertured base adapted to be secured to a sup-

porting structure, and longitudinally-grooved ears adjacent the aperture, of a strap between the ears, oppositely-extending projections upon the strap rotatably mounted within the grooves, and a follower detachably mounted within the aperture and grooves for holding the projections against displacement, said follower adapted to be held against movement by the structure to which the hinge is secured.

6. A hinge comprising a member having an aperture therein and integral ears, another member between and engaging the ears, and means within the aperture for holding said last-mentioned member in engagement with the ears.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HARRY GLEN KIMPLE.

Witnesses:

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REED MCKAY.