No. 822,649. PATENTED JUNE 5, 1906.

J. R. CARTER.

HINGE.

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Fig. 1.

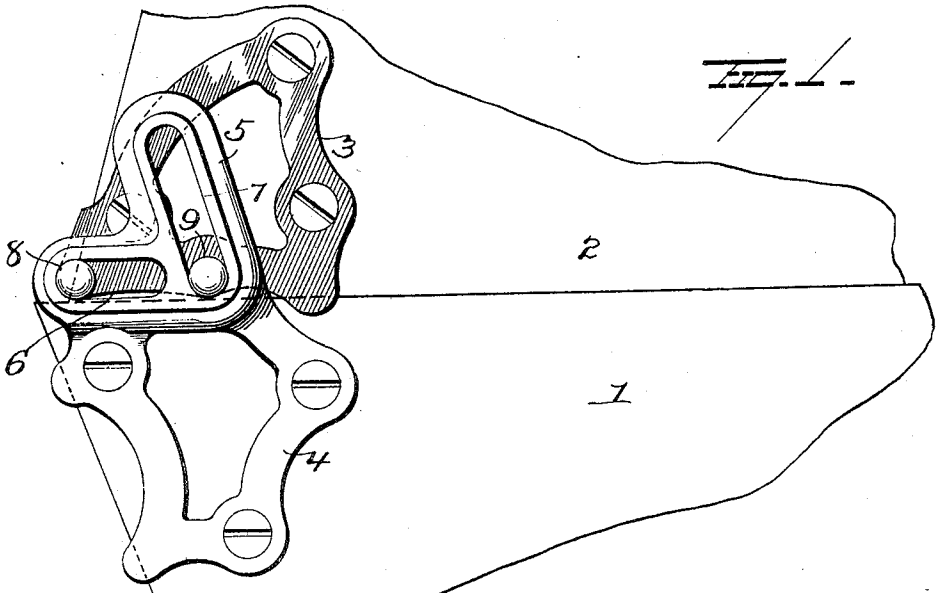
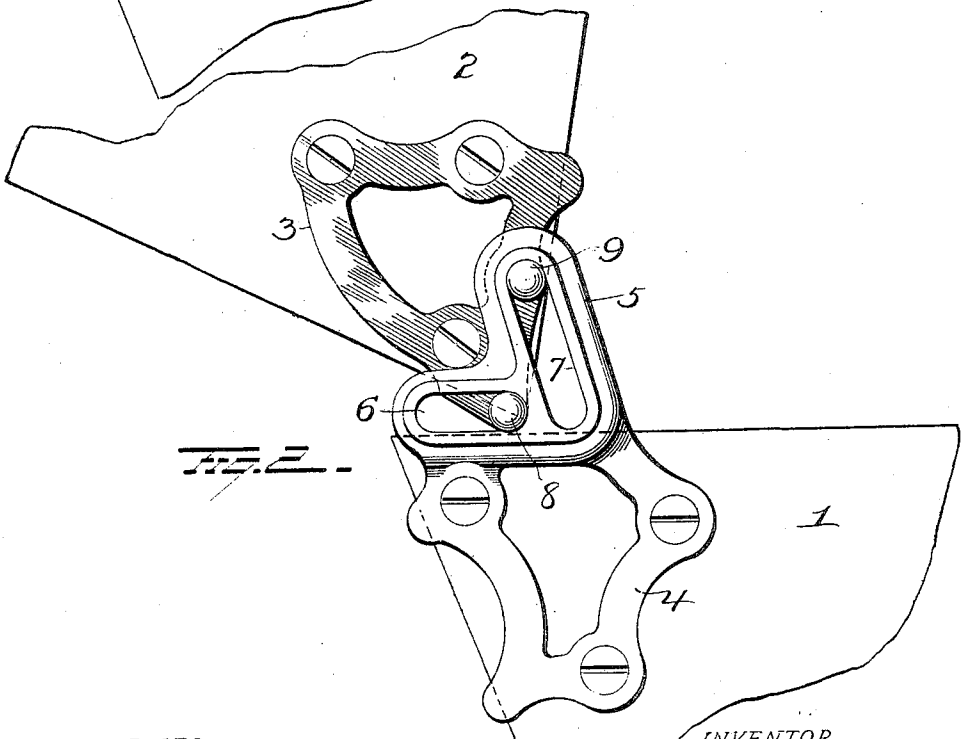


Fig. 2.



WITNESSES

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HINGE.

No. 822,649. Specification of Letters Patent. Patented June 5, 1906.

Application filed March 24, 1905. Serial No. 251,864.

To all whom it may concern:

Be it known that I, JOHN R. CARTER, a resident of Augusta, in the county of Bracken and State of Kentucky, 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 improvements in hinges more particularly adapted for use on washing-machines, trunks, boxes, and the like, the object of the invention being to provide a compact, strong, neat, and attractive hinge, one member of which has two straight slots located at an angle to each other, and the other member has a stud or lug in each slot, said slots and lugs or studs so arranged as to compel the upper member in opening to move forward to project the end of the cover over the body; and a further object is to provide a hinge in which all connection between the two members is above the body.

With these objects in view the invention consists in certain novel features of construction and combinations and arrangements of parts, as will be more fully hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in side elevation, illustrating my improvements in closed position; and Fig. 2 is a similar view showing the cover open.

1 represents a body, and 2 a cover.

3 and 4 are the members of my improved hinge, the latter secured to the body and the former to the cover. Lower member 4 has an upwardly-projecting portion 5, which overlaps the upper member, and this portion 5 is made with an approximately horizontal slot 6 and an inclined slot 7, the latter extending from a point adjacent to the forward end of slot 6 up and rearward the desired distance. Upper member 3 is provided with studs or lugs 8 and 9, the former located in slot 6 and the latter in slot 7, and when the parts are in their closed position, as shown in Fig. 1, stud 8 is in the rear end of slot 6 and stud 9 is in the lower end of slot 7. When the cover is raised, stud 9 moves up the inclined slot 7 and pulls forward the stud 8 in slot 6, thus causing the end of the cover to be projected over and drain into the body. When the cover reaches its extreme open position, stud 9 will be in the upper portion of slot 7 and stud 8 in the forward end of slot 6 and securely hold the cover in its open position. In closing, stud 9 in its movement down slot 7 forces stud 8 rearward in slot 6, so that when the cover is down it will have been moved back to its normal position.

By constructing my improvements as above explained—namely, having one member provided with two comparatively straight slots, one approximately horizontal and the other inclined, and providing the other member of the hinge with studs or lugs in said slots and all of said connections being located above the body—I produce a hinge superior in strength, appearance, and durability to anything heretofore known in the art and one that can be cheaply made, readily assembled, and easily secured in position on a washing-machine, trunk, box, or the like without danger of misplacing the parts.

It will be observed that the lower end of the inclined slot 7 is in the same horizontal plane as the lower side of the horizontal slot 6, whereby when the lid is closed, as represented in Fig. 1, its hinged end is supported at two points—viz., by the stud 9, seated in the bottom of the inclined slot 7, and the stud 8, seated upon the lower bearing of the horizontal slot 6.

Another advantage results from my construction, which is the following: When the lid is closed, it is securely locked against any forward or backward movement or displacement by means of the relative arrangement of the slots and studs of the hinge. The stud 8 seats against the rear end of the horizontal slot 6, and hence restrains the lid against any rearward movement, while the stud 9 engages the rearwardly-inclined wall of slot 7 and restrains the lid against any forward movement or displacement.

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

In a hinge, the combination of two over-

lapping members one having a straight horizontal slot, and also a straight inclined slot, the lower end of the latter being in substantially the same horizontal plane as the lower side of the horizontal slot, and two studs on the other member adapted to engage said slots, substantially as set forth.

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

JOHN R. CARTER.

Witnesses:
S. W. FOSTER,
R. S. FERGUSON.