No. 674,454. Patented May 21, 1901.

J. R. CARTER.

HINGE.

(Application filed Mar. 2, 1901.)

(No Model.)

Fig. 1.

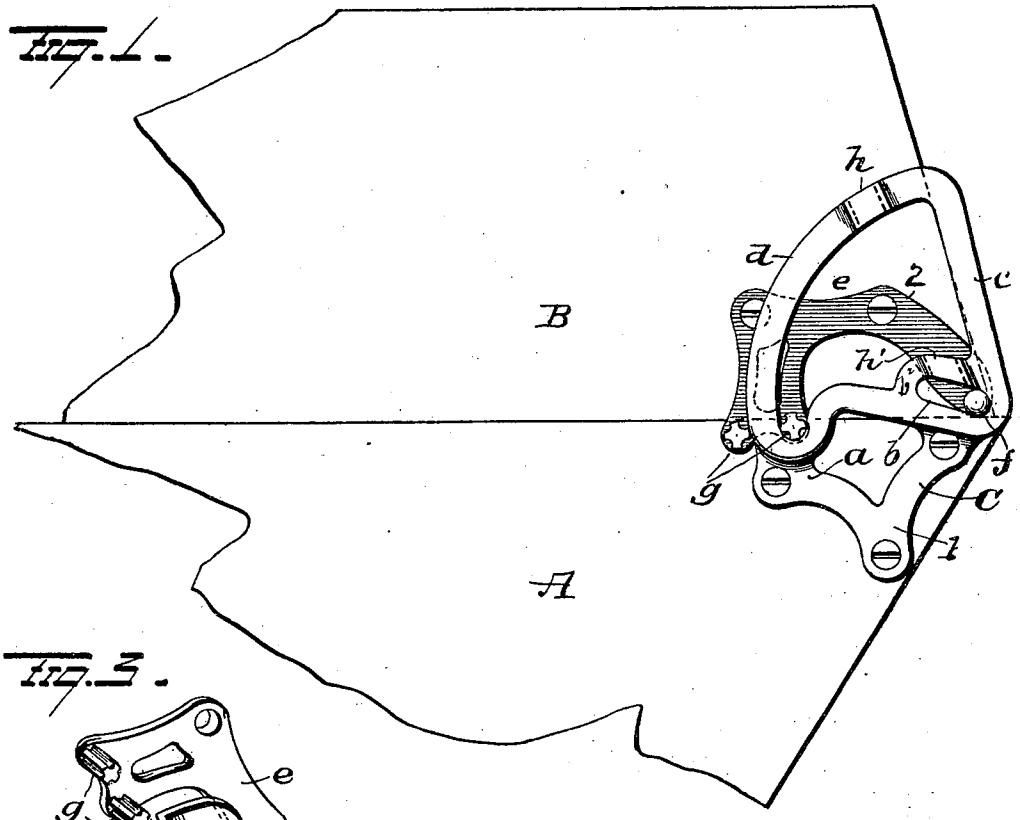



Fig. 3.

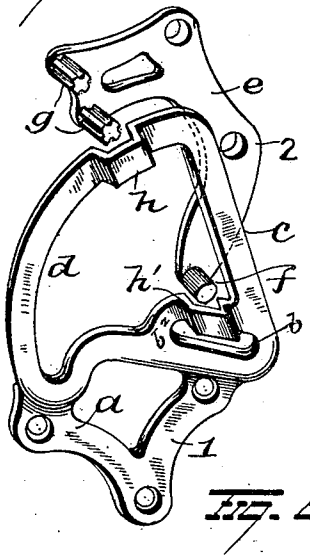
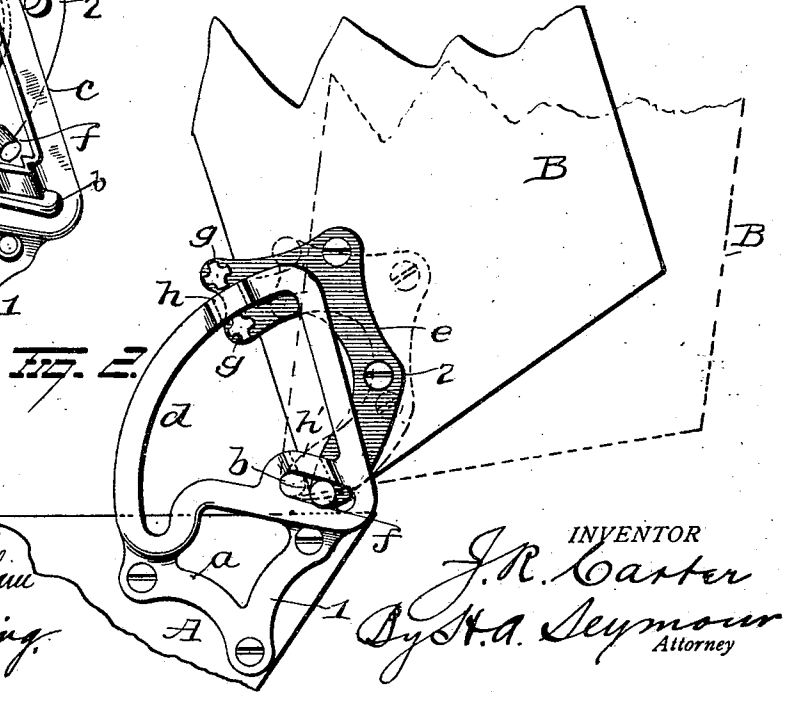



Fig. 2.




WITNESSES

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# UNITED STATES PATENT OFFICE.

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## HINGE.

SPECIFICATION forming part of Letters Patent No. 674,454, dated May 21, 1901.

Application filed March 2, 1901. Serial No. 49,604. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN R. CARTER, 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 an improvement in hinges, designed more particularly for use on washing-machines, the object being to provide hinges so constructed that the two parts thereof may be readily connected and disconnected, thereby permitting the cover which carries the reciprocating rubber and its actuating mechanism to be readily removed and replaced on the body of the machine without disconnecting either section of the hinge from its supporting part.

In the accompanying drawings, Figure 1 is a view in side elevation showing my improved hinge applied to a washing-machine. Fig. 2 is a similar view showing the top or cover open; and Fig. 3 is a perspective view of the two parts of the hinge, showing the two sections disconnected, but in their proper position for uniting them.

A represents the body of a washing-machine, and B represents the cover, connected to the body by the hinges C. These hinges are each constructed of two parts 1 and 2, the part 1 or lower and larger member being secured to the body, (either inside or outside,) while the upper and smaller member is secured to the cover or lid. The body *a* of the part 1 is provided with screw-holes for its attachment to the body of the casing and is provided at its rear end with an elongated slot *b*, which latter when the hinge is in position inclines slightly forwardly and upwardly, with its lower end in a plane slightly above the top edge of the casing.

Projecting upwardly and forwardly from the rear end of the top of body *a* of part 1 of the hinge is the integral arm *c*, which latter may be straight or curved, as desired, and integral with the upper end of this arm and also integral with the front end of body *a* is the curved guide *d*. This guide *d* is preferably formed in the arc of a circle, with its lower end concentric with the lower rear end of slot *b*, while the upper end of guide *d* is concentric with the upper forward end of slot *b*.

When the part 1 of the hinge is secured to the body of the casing or box, the arm *c* and guide *d* project above the body adjacent to the ends of the cover, and thus form lateral supports, which effectually brace the cover against endwise movement.

The part 2 of the hinge comprises a body *e*, having screw-holes for its attachment to the cover, and at its rear end with a pin or stud *f*, adapted to rest within the elongated slot in the part 1 of the hinge, and is provided at its front end with two pins or studs *g*, adapted to receive the guide *d* between them. The end carrying the pins or studs *g* projects beyond the lower edge of the cover, so as to overhang the side of the body of the casing or box when the cover is closed, and as the guide *d* and arm *c* project above the body of the casing or box it will be seen that the cover is thoroughly braced against lateral movement or displacement. As the pins or studs rest on opposite sides of the guide it will be seen that as the cover or lid is lifted the outer stud *g*, bearing against the outer face of the guide, draws the cover forward and moves the rear stud *f* lengthwise the slot *b*, thus throwing the rear end of the lid or cover well over the body, so that any suds, water, or other matter therein will gravitate into the body and not escape between the cover and body. It will also be seen that when the cover is open the weight of the cover will be supported by the widely-separated studs *f* and *g*, thus dividing the strain.

To enable the cover B, which carries the rubber and actuating mechanism of the latter, (not shown,) to be readily connected to and disconnected from the body A of the washer, I have provided the curved guide *d* of the section 1 of the hinge with an offset *h*, which forms a recess or passage-way on its inner face, and the top wall $b^2$ of the slot *b* with a similar offset *h'*, forming a recess or passage-way on its inner face, the offset *h'* being in line with the offset *h* in the guide *d*, so that when the pintles *g* on the section 2

of the hinge are in line with the offset *h* the lower pintle *f* will also be in line with the offset *h'*, thus permitting the pins to pass through the passages therein provided and releasing the cover from the body. The cover can as easily be replaced in position. With this construction it will be seen that the sections of the hinges can be applied to their respective parts and the cover and body united or assembled after they have been completely finished and varnished, and it also enables the cover to be readily removed when repairs of any kind are needed thereon.

While I prefer to form a hollowed-out offset in the top wall of slot *b*, as shown, it is evident that the offset may be dispensed with and the wall simply cut away for the passage of the pintle, as this upper wall is so short and is subjected to so little strain that the absence of the offset would not materially weaken the structure.

The two parts of the hinge overlap more or less when the cover is opened and closed. Hence the hinges act as braces to stay the cover against lateral displacement.

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

The combination of a body and cover, and a hinge comprising two members one of which is secured to the body and the other to the cover, one of said members having an elongated slot and the other a pintle adapted to move in the slot, and one having a curved guide and the other a pintle adapted to move against one face of said curved guide, the guide and upper wall of the slot having offsets for the passage of the pintles.

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

JOHN R. CARTER.

Witnesses:
GEO. F. DOWNING,
W. CLARENCE DUVALL.