

R. B. GOODRICH.
LID FASTENING DEVICE.
APPLICATION FILED SEPT. 9, 1910.

981,550.

Patented Jan. 10, 1911.

Fig. 1.

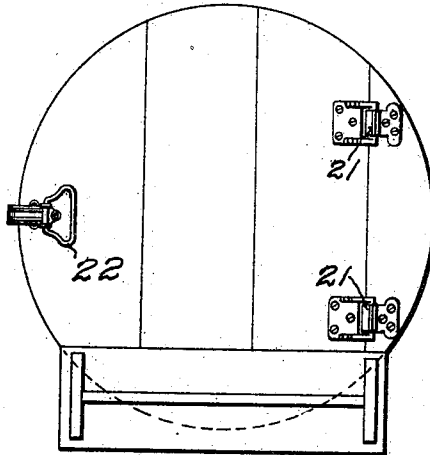


Fig. 4.

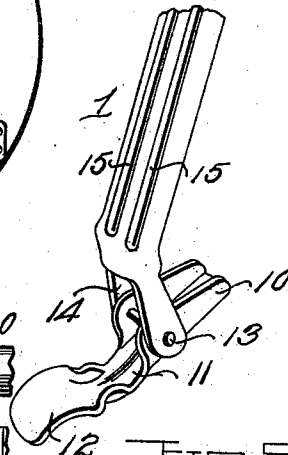


Fig. 2.

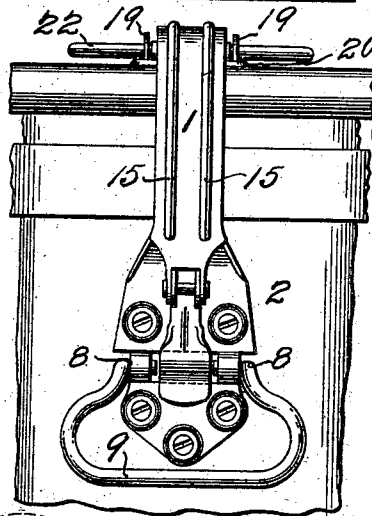


Fig. 5.

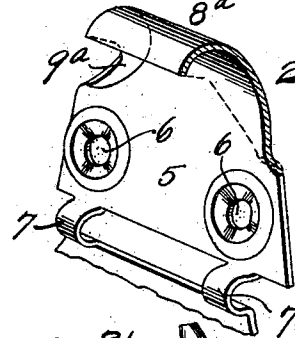
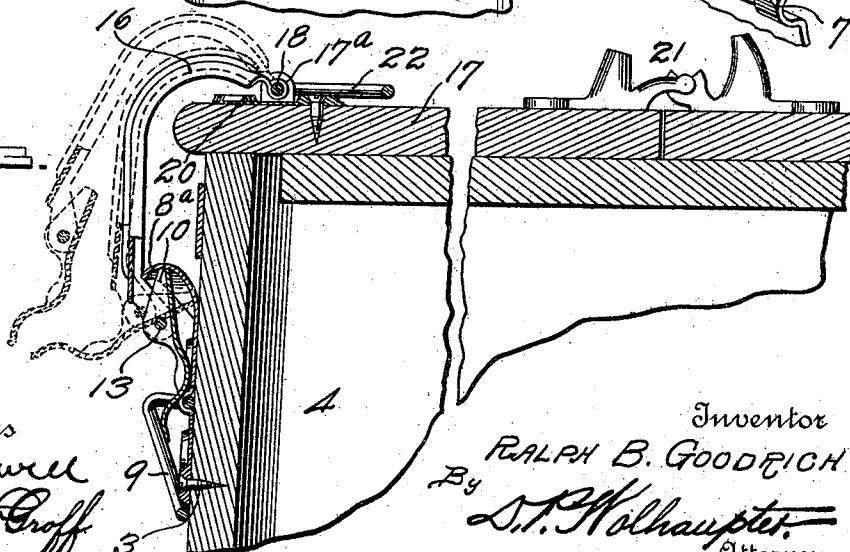


Fig. 3.



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UNITED STATES PATENT OFFICE.

RALPH B. GOODRICH, OF COLLEGE HILL, OHIO, ASSIGNOR TO THE EAGLE MANUFACTURING COMPANY, OF CINCINNATI, OHIO, A CORPORATION OF OHIO.

LID-FASTENING DEVICE.

981,550.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, RALPH B. GOODRICH, a citizen of the United States, residing at College Hill, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Lid-Fastening Devices, of which the following is a specification.

This invention relates to lid fastening devices particularly of the kind that possess special utility as a fastening means for the lids or covers of washing machines of the power type.

To this end the invention contemplates a simple, thoroughly practical, and powerful fastening device comprising means for securely and rigidly fastening down the lid of a washing machine tub or the like in such a manner that looseness or vibration of the lid is made impossible, and the latter, therefore, provides a rigid and firm base for the working parts of the machine carried thereby.

A further object of the invention is to provide a lid fastening device of the character referred to which can be made entirely of sheet metal stampings.

With these and many other objects in view which will more readily appear as the nature of the invention is better understood, the same consists in the novel construction, combination and arrangement of parts herein-after more fully described, illustrated and claimed.

A preferred and practical embodiment is shown in the accompanying drawings, in which—

Figure 1 is a top plan view of a washing machine tub such as employed in connection with operating mechanism for the agitator, the lid of the tub being shown provided with the improved lid fastening device. Fig. 2 is a front view of the fastening device, shown applied. Fig. 3 is a sectional view of the device, shown applied, and illustrating by full and dotted lines the action of the device in the fastening and unfastening operation. Figs. 4 and 5 are detail views in perspective, respectively, of the hasp and keeper members of the device.

Like references designate corresponding parts in the several figures of the drawing.

The improved lid fastening device, claimed herein, essentially consists of a hasp member designated by the numeral 1, and a keeper member designated by the numeral 2,

both of which are constructed from sheet metal stampings. The hasp member 2 is designed to be rigidly secured by means of screws or other fastenings 3 to the outer side of the body 4 of a washing machine tub, or the like, and said keeper element comprises a single piece, or plate, of sheet metal stamped to form a base plate 5 having screw openings 6 punched therein, and offstanding bearing ears 7 to receive the pintles 8 of one of the tub handles 9 which is thus pivotally supported in a handy position. In addition to the elements referred to, the keeper element is provided at the upper end thereof with an offstanding curved catch-flange 8^a, reinforced at its end edges by the reinforcing end webs 9^a, and which is struck on an eccentric curve. The end webs 9^a, together with the catch-flange 8^a produce what may be termed a keeper socket, at the underside of the flange 8^a, and which socket is adapted to receive therein the nose 10 of a pivotal locking lever 11.

The locking lever 11 is of a channeled form, stamped from a piece of metal and is provided at one end with a finger piece 12. This lever 11 is pivotally mounted, upon the pivot pin 13, within a bifurcation 14 formed at one end of the longitudinally channeled hasp member 1. This hasp member is reinforced by its channeled form and also by longitudinal reinforce ribs 15 struck-up therefrom. The said hasp member 1 is substantially of an inverted J-shape, that is to say, is provided at its upper end with a curved portion 16 which extends about and beyond the edge of the lid 17 with a substantial clearance, and the end of the said hasp member opposite the lever 11 is formed with a pivot eye 17^a receiving a pivot pin 18 which also passes through extending ears 19 carried by a base plate 20 secured on top of the lid 17 near the swinging edge thereof, the other edge of said lid being hinged by suitable hinges, as at 21. The pivot pin 18 may conveniently consist of the pintle element or elements of a handle 22, which is thus arranged in a handy position for raising and lowering the lid.

The form of the hasp member 1, and the material thereof give to the same a substantial resiliency so that in the locking operation the rounded nose 10 of the lever 11, when engaged within the socket of the keeper member, serves to spring the hasp member down-

ward under an increasing spring tension with the result of exerting a powerful clamping action to hold the lid in its closed position.

5 As shown by the dotted lines in Fig. 3 of the drawings, when the locking lever 11 is rotated the nose 10 thereof rides beneath and against the eccentrically-curved catch flange 8^a until the pivot 13 passes the center, 10 whereupon the locking lever holds locked until the finger-piece 12 is drawn outward from the body of the tub.

From the foregoing it is thought that the construction, action, and many advantages 15 of the herein-described lid fastening device will now be apparent without further description.

I claim:

A lid fastening device comprising, in combination with the body and lid, a keeper 20 member provided at its upper end with an offstanding eccentrically curved catch flange having end webs, a spring hasp member having a curved end pivotally connected with the lid, and a locking lever pivotally mount- 25 ed between its ends on the free end of the hasp member and having a nose portion adapted to ride beneath and against said flange.

In testimony whereof I hereunto affix my 30 signature in the presence of two witnesses.

RALPH B. GOODRICH.

Witnesses:

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