Nov. 18, 1924.

1,516,086

J. DAVIDSON

HINGE

Filed Sept. 17, 1923

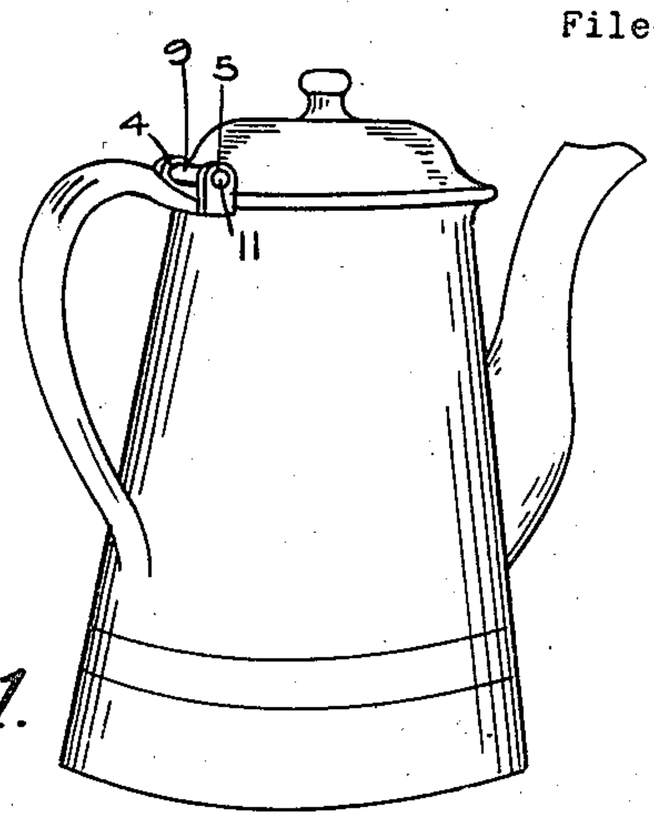

FIG-1.

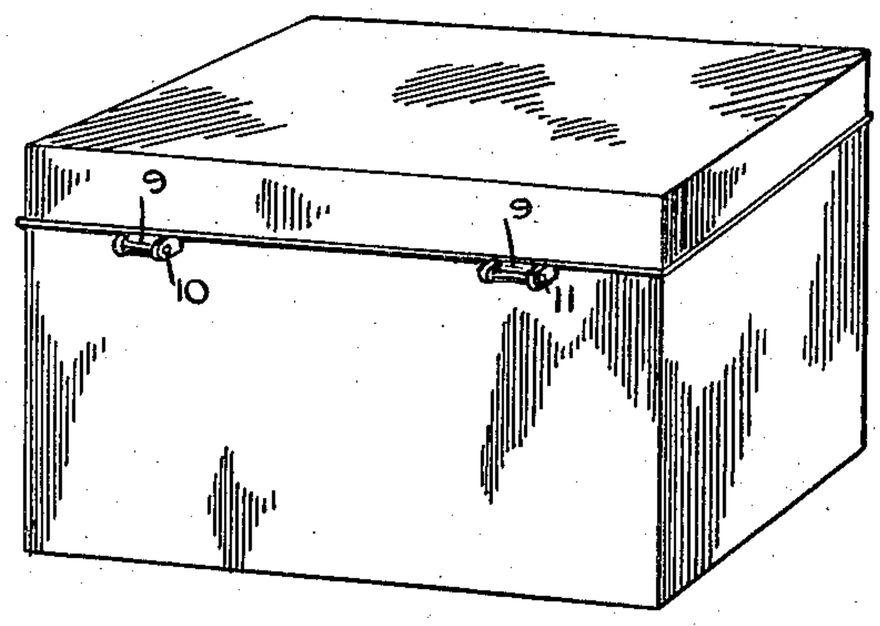

FIG-2.

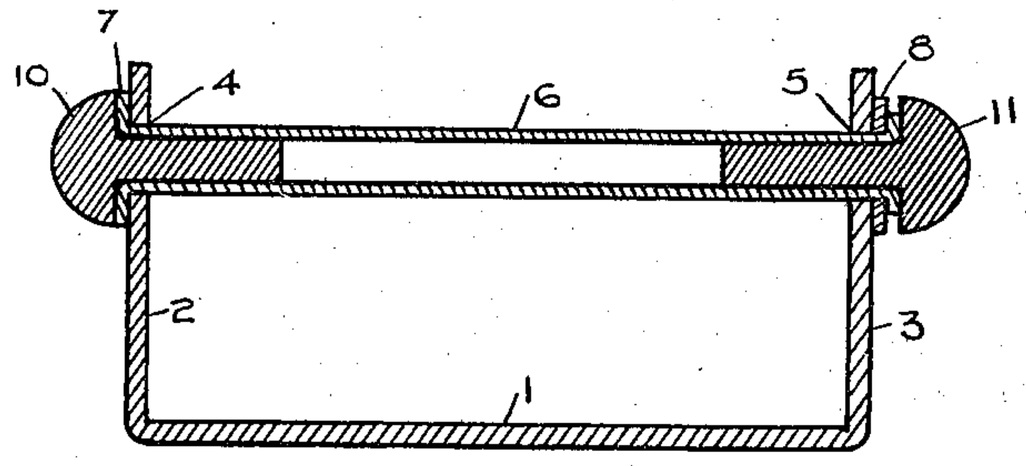

FIG-3.

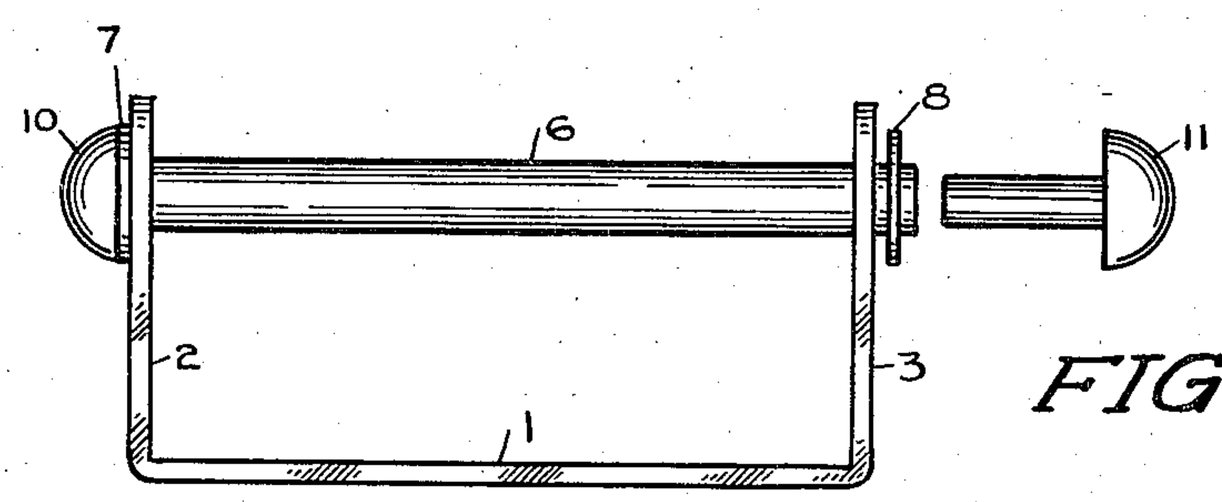

FIG-4.

Inventor
J. Davidson
By E. J. Fetherstonhaugh
Attorney

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UNITED STATES PATENT OFFICE.

JAMES DAVIDSON, OF MONTREAL, QUEBEC, CANADA, ASSIGNOR TO THE THOS. DAVIDSON MFG. CO., LIMITED, OF MONTREAL, QUEBEC, CANADA.

HINGE.

Application filed September 17, 1923. Serial No. 663,278.

To all whom it may concern:

Be it known that I, JAMES DAVIDSON, a subject of the King of Great Britain, and residing at the city of Montreal, in the Province of Quebec, in the Dominion of Canada, have invented a new and useful Hinge, of which the following is the specification.

The invention relates to a hinge as described in the present specification and illustrated in the accompanying drawings that form part of the same.

The invention consists essentially of the novel features of construction pointed out broadly and specifically in the claims for novelty following a description containing an explanation in detail of an acceptable form of the invention.

The objects of the invention are to facilitate the manufacture of sheet metal utensils and receptacles; to form the pin member of the hinge in a simple and economical manner; to eliminate the displacement of the lid in tea and coffee pots, bread boxes and other articles of the kind through the disruption of the hinge; and generally to provide a hinge of a durable nature at a minimum cost.

In the drawings, Figure 1 is a perspective view of a tea or coffee pot, showing the application of this invention thereto.

Figure 2 is a perspective view of a bread box, showing the hinges made according to this invention.

Figure 3 is an enlarged longitudinal view of the hinge member concerned in this invention.

Figure 4 is an elevation of the hinge member before splaying the end.

Like numerals of reference indicate corresponding parts in the various figures.

Referring to the drawings, the frame 1 of the hinge is formed of a strip of metal with the outwardly turned lugs 2 and 3 having the hollow hinge pin holes 4 and 5 adjacent to the extremities of said lugs.

The tubular hinge pin 6 may be formed with the outturned flange or curled end 7 and be plain at the other end and is inserted through the holes 4 and 5, until the plain end projects beyond the outturned end 3 and on this projecting portion of the tube the washer 8 is mounted and the wall of the tube outside the washer splayed thereover.

The hinge pin 6 is of tubular form and is secured in the barrel 9 extending from the hinged part, in this case shown as the lid of a tea pot, and is curled or splayed at the ends over the outer surfaces of the lugs 2 and 3 and at one end over the washer 8, this action drawing the flange 7 tightly up to the outturned end 2, so that the pin is very rigidly held in the frame ready for the curled tongue 9 of sheet metal, which forms the barrel member of the hinge and is either stamped out with the lid of the vessel or is a separate piece secured thereto.

The salient feature in this invention is the provision of the hollow pin in hinge construction and it has been found in practice that this fastening is most efficient for utensils, vessels or boxes, as it is quite impossible in ordinary use to rip the hinge off or disrupt it so as to cause displacement of the parts. The ends of the hollow pin are closed by the plugs 10 and 11 which give the hinge a good finish and also strengthen the tube by making it practically solid for a portion of its length, the heads of said plugs covering the splayed ends of the tubular pin.

What I claim is:—

1. In a hinge, a barrel extending from the hinged part, and a hollow hinge pin extending through said barrel and through hinge lugs and having its wall outwardly splayed over said lugs and plugged ends.

2. In a hinge, a barrel extending from the hinged part, a piece having flanged ends forming hinge lugs, a tubular pin extending through said barrel and lugs and having its wall splayed over the outer surfaces of said lugs and solid plugs inserted in said tubular pin, and having heads covering said splayed ends of the pin wall.

Signed at Montreal, Canada, this 13th day of September, 1923.

JAMES DAVIDSON.