April 4, 1939. H. J. CHARLAND 2,152,871

PIPE BRACKET

Filed April 19, 1938

Fig. 1

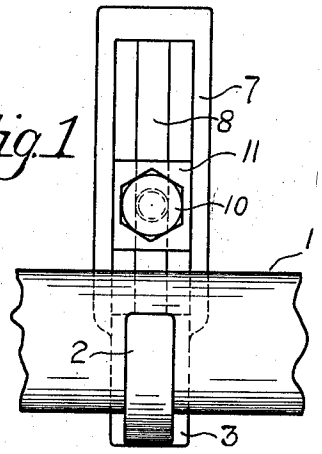


Fig. 2

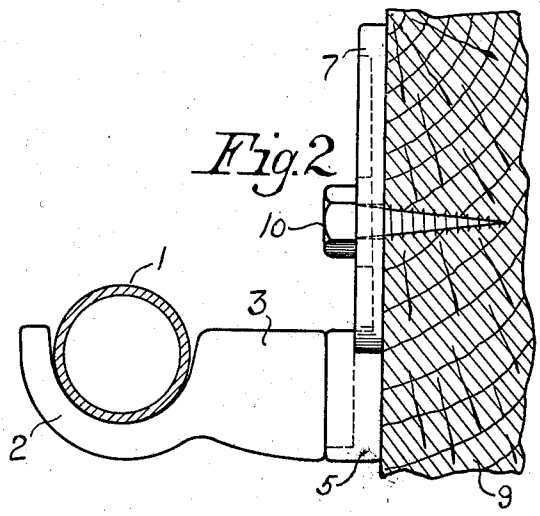


Fig. 3

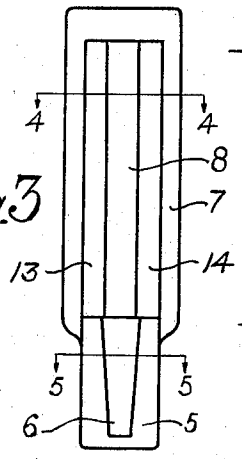


Fig. 4

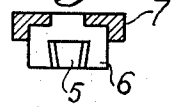


Fig. 5

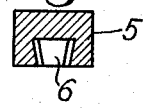


Fig. 6

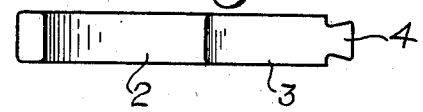


Fig. 7

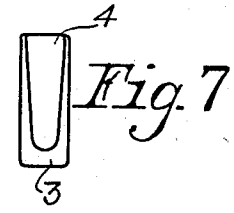


Fig. 8

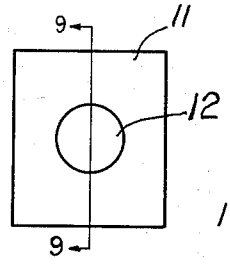
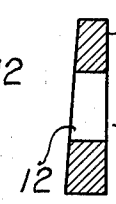


Fig. 9



Harry J. Charland. Inventor

By

Samuel H. Davis. Attorney

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UNITED STATES PATENT OFFICE

2,152,871

PIPE BRACKET

Harry J. Charland, Lansing, Mich.

Application April 19, 1938, Serial No. 202,953

1 Claim. (Cl. 248—73)

This invention relates to pipe brackets usually provided with an extended arm portion having a curving end for the reception of a pipe. The bracket may be secured to any suitable support.

The object of this invention is to produce a device of the nature stated which has an extended arm intended to support a heavy weighted article, which may be a pipe or other body, the arm being removably carried by a holder which is adjustable up or down upon the support, raising or lowering the arm accordingly, and the invention is directly concerned with the special construction and arrangement of the parts illustrated in the accompanying drawing forming a portion of this application.

Of the drawing, Fig. 1 represents a front view of this invention carrying a pipe and showing all parts assembled.

Fig. 2 is a vertical sectional view of a board support with this invention attached in position, showing a side view of all parts assembled.

Fig. 3 is a front view of the holder portion of this invention, the other parts being omitted.

Fig. 4 is a cross section of the holder taken on the line 4—4 of Fig. 3.

Fig. 5 is a cross section of the lower or body portion of the holder, taken upon the line 5—5 of Fig. 3.

Fig. 6 is a top view of the arm detached.

Fig. 7 is an end view of the arm.

Fig. 8 is a face or plan view of the clamping block.

Fig. 9 is a sectional view of the clamping block taken on the line 9—9 of Fig. 8.

Throughout the drawing and description the same number is used to refer to the same part.

A pipe 1 may be placed in the curving end 2 of the arm 3 having the outwardly extending portion for the purpose as shown. The arm is detachable, and is formed with a wedge-shaped bar end 4, best shown in Figs. 6 and 7. The lower part 5 of the holder portion of this invention has a groove 6 formed to receive and engage the wedge bar end of the arm in detachable relation. In Fig. 2 it will be noted that the holder portion comprises an upwardly extending plate 7, and that the lower part 5 of the holder projects somewhat beyond the face of the plate 7. The projecting portion of the part 5 has the groove 6, as shown in Fig. 5.

As best shown in Figs. 1 and 3, the upwardly extending plate 7 of the holder portion of this invention has a longitudinal slot 8. In Fig. 2 the plate 7 is shown against the supporting board 9, and it is secured thereto by a screw 10 passing through a clamping block 11 provided with an orifice 12 for the passage of the screw, as set out in Figs. 8 and 9.

Considering Figs. 2, 3 and 9, it will be noted that the plate 7 has along opposite edges of the slot 8, the recesses 13 and 14, and those edges are gradually deeper from the top of the lower extent of the slot. Clamping block 11 is wedge-shaped as represented in Fig. 9, and it is constructed to fit the recesses movably across the slot.

It will be understood in the operation of this invention, that the plate of the holder portion may be secured higher or lower upon the support, thereby raising or lowering the fixed position of the arm. When the screw is set up and the clamping block forced into place between the recessed edges described, any downward force of the weight carried by the arm acts to wedge the block and plate together and to resist such force. Thus, after the invention is secured to a support as shown in Fig. 2, the greater the downward effect by the pipe or weight the greater the resistance to the displacement of the holder.

It is not intended to limit this invention to the precise forms and sizes of the parts set out in the drawing, nor is it intended to restrict the use of the invention to carrying pipes. Furthermore, the arm and holder may be permanently attached one to the other, and the construction herein explained will remain substantially the same. It is capable of being secured in any manner to any desired support, either upon the inside of a wall or upon the outside.

Having now described my invention and its use, I claim:

A pipe bracket comprising in combination, an arm having a curved end portion adapted to carry a pipe, the other end of the arm having a terminal projecting portion constructed with upwardly and outwardly divergent sides, a holder for the arm constructed with a lower portion provided with a groove constructed to removably engage and to resist the downward displacement of said terminal by wedging action, said holder having an integral upwardly extending plate portion constructed with a lengthwise slot, the sides of the said slot being recessed longitudinally, said recesses being formed gradually deeper from the upper to the lower parts thereof, a support, an adjustable wedge block constructed to removably fit the said recessed edges of the slot in said plate and having a screw hole, and a headed screw passing through the said hole in the block to secure the holder to said support whereby downward displacement of the said holder is resisted by wedging action.

HARRY J. CHARLAND.