

(No Model.)

J. H. GLAUBER.
BASIN CLAMP.

No. 483,804.

Patented Oct. 4, 1892.

Fig 1

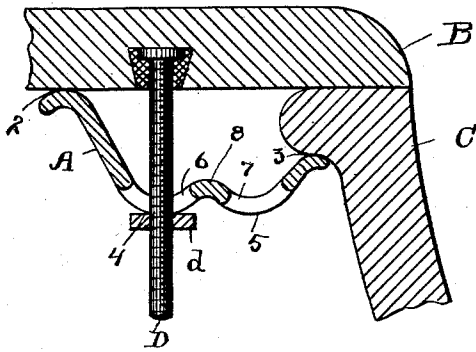


Fig 2

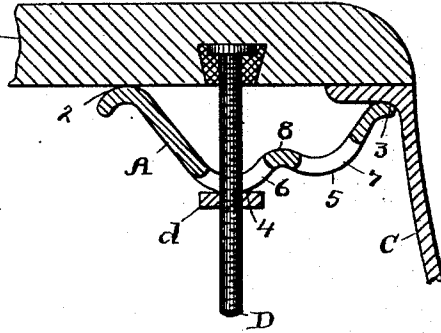


Fig 3

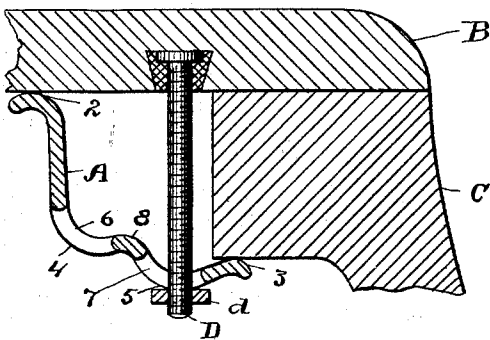


Fig 4

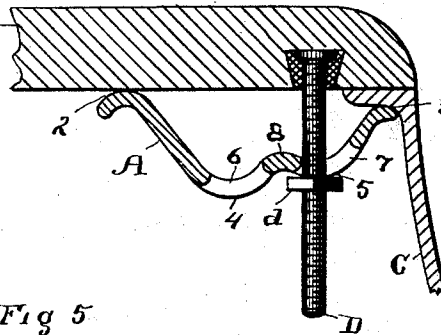
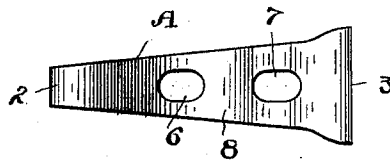


Fig 5



WITNESSES.

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BASIN-CLAMP.

SPECIFICATION forming part of Letters Patent No. 483,804, dated October 4, 1892.

Application filed May 28, 1892. Serial No. 434,748. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH H. GLAUBER, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Basin-Clamps; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to basin-clamps; and the invention consists in a clamp which is so constructed that it is equally well adapted to basins with light or heavy flanges and will clamp one thickness as readily and firmly as another without any change or adjustment except upon the tightening-bolt, all as hereinafter fully described, and particularly pointed out in the claims.

Figure 1 shows a section of a marble slab and of a basin with a flange of ordinary size held by my improved clamp. Fig. 2 shows a like view with a very thin basin, as metal or the like, and with the bolt through the same opening. Fig. 3 shows a view with a basin-flange of extraordinary thickness and the bolt near the flange; and Fig. 4 is a view with a thin basin-flange and the bolt-hole near, as in Fig. 3, the bolt in both these views passing through the lower slot. Fig. 5 is a plan view of the clamp.

A represents the clamp proper. This clamp has certain peculiar and distinguishing features of construction which render it especially available for the widely-different conditions to which it is adapted. Thus, for example, it has the rounded outer extremity 2, which bears against the marble or like slab B, and the rounded inner extremity 3, which bears against the flange of the basin C. These extremities are rounded because the bearing-point changes or travels according as a heavy or light basin is engaged, as seen in Figs. 2 and 3, and bearings adapted to such changes are therefore desirable. A further peculiarity of construction is the rounded exterior or lower bearing surfaces or portions 4 and 5, each of which corresponds to or is formed on a segment of a circle struck from its own center. Thus the rounded portion 4 is a segment from a circle on a different center from the portion 5, as is also the latter from the

segment 4; but both are from circles of corresponding size. These sizes may, of course, vary; but those shown are about right for the ordinary size of clamp. The clamp is provided with oblong slots 6 and 7 longitudinally through said segments or rounded portions 4 and 5, and to form these segments near to one another the clamp has an abrupt bend or depression 8 midway between them. If this bend were made deeper, each arc would be correspondingly extended.

D represents the clamping-bolt, set into the slab or plate B in the usual or any suitable way, and provided with a nut *d*. The purpose of the rounded portions 4 and 5 will now be obvious. By having them rounded in this manner I can get in each segment a large range of adjustment to widely-different thicknesses of basin and yet in all cases obtain an even bearing for the nut *d* at the sides of the slots. Thus in Fig. 1 it will be seen that the nut bears equally and centrally on both sides of the bolt, while in Figs. 2 and 4 the same result exactly occurs, although the flange *c* is much thinner than in Fig. 1. The position of the bolt in the slot of course changes as a thicker or thinner flange is used; but in any case this construction maintains a central bearing for the nut. Either one of the segments is designed to have range enough to accommodate it to basins of all probable sizes or thicknesses. In Fig. 3 I show an extraordinary and wholly-improbable thickness of flange; but this serves to illustrate the range of capacity in the clamp. In this figure, also, the bolt is set very near the flange, which renders the lower slot and bearing available, the one next to the basin being called the "lower," and the lower or outer surface being the outer one as here shown. The parties who cut the bolt-holes in the marble slab have no rule for cutting them, and some are cut near and others far from the edge, and a clamp must be adaptable to these variations; hence the two segments 4 and 5 and the use of one or the other, according to the position of the bolt in respect to the flange *c* of the basin.

It will be seen from the drawings and the foregoing description that I obtain all the range of reach and adjustment that the art requires and that the construction is an exceedingly-simple one, as well as very cheap.

There are but three parts—the clamp, the bolt, and the nut—and these are inexpensive and easily made. The clamp can be cast or stamped up in dies. One or more of the slotted rounded portions can be used; but generally the clamp is made with two and the exterior surfaces 4 and 5 rounded on the segment of a circle, as here shown, to adapt it to the adjustments described. The openings or slots 6 and 7 run with the length of the clamp and are given such size as the adjustments require. By the use of the word “slot” I mean an opening which has accommodation for the clamping-bolt, as herein described.

15 The clamp need not necessarily resemble the one here shown in respect to thickness of material nor uniformity in cross-section; but the parts 4 and 5 in any and all cases must be rounded on their outer side to serve my purpose.

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

25 1. A basin-clamp having a depression between its ends, rounded on the bottom side,

substantially on the segment of a circle, the center of which comes between and beneath the plane of the ends of the clamp, and an opening through said rounded portion, in combination with a clamping-bolt through said slot and a nut, substantially as described. 30

2. A basin-clamp having two different portions of its body rounded on the exterior to the segment of a circle and an opening for the clamping-bolt through said rounded portions, substantially as described. 35

3. As a new article of manufacture, a clamp for securing basins in position having its ends constructed to engage the flange of the basin and the supporting-slab, respectively, and having a portion between its ends formed with a rounded surface and an opening through said rounded portion for the securing-bolt, the said rounded and slotted portion located below the plane of the ends of the clamp, substantially as described. 40 45

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Witnesses:

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