(No Model.)

W. C. DEGELMAN.

DEVICE FOR SUPPORTING BATH TUBS WHEN APPLYING ENAMEL.

No. 588,404. Patented Aug. 17, 1897.

Fig. 1.

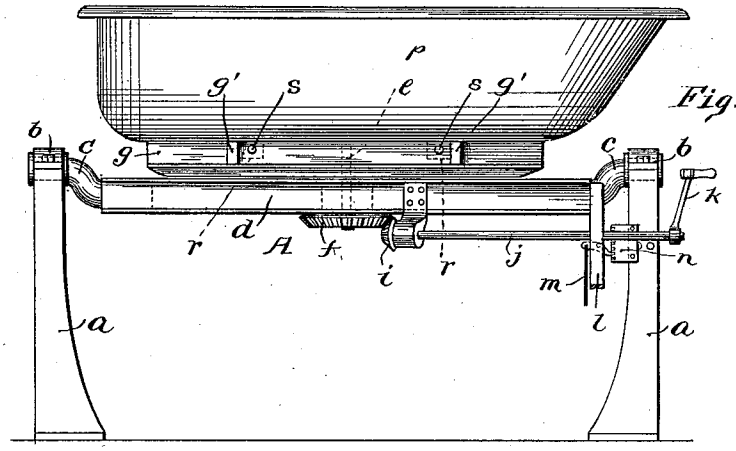


Fig. 2.

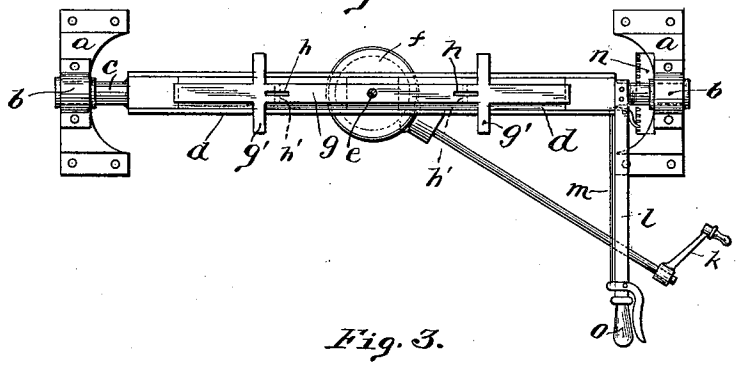
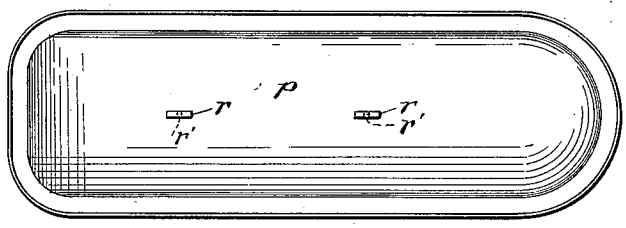


Fig. 3.



Witnesses:

Walter Famarus

Robert C. Totten

Fig. 4

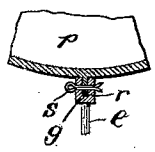
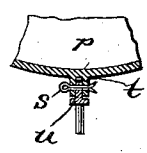


Fig. 5.



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UNITED STATES PATENT OFFICE.

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DEVICE FOR SUPPORTING BATH-TUBS WHEN APPLYING ENAMEL.

SPECIFICATION forming part of Letters Patent No. 588,404, dated August 17, 1897.

Application filed March 12, 1897. Serial No. 627,130. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM C. DEGELMAN, a resident of Allegheny, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Devices for Supporting Bath-Tubs When Applying Enamel; and I do hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to the enameling of bath-tubs, sitz, foot baths, &c., or in fact any vessel whose exterior it may be desired to enamel.

Heretofore all enameled iron bath-tubs have been enameled on the interior only, the difficulty of enameling both the interior and exterior being due to the inability to handle the tub during the process of enameling without marring the enamel on the exterior. Accordingly all enameled bath-tubs heretofore constructed have not been enameled on their exterior, but to finish the exterior the surface is first covered with iron filler and then given a finishing-coat of enamel-paint or similar material. This finish wears off in time or otherwise becomes disfigured, which greatly mars the beauty and finish of the tub.

In order that the difficulty attending the handling of the tub in enameling may be appreciated, I will describe this process as at present carried out. The tub-casting having been properly heated is removed from the furnace with a large fork engaging the tub beneath its flange or rim and is placed upon a combined revolving and tilting table. This table permits of the turning and tilting of the tub at various angles, so that the workmen can properly dredge the enamel-powder on the casting. To support the tub when thus turned and tilted, arms are provided at the sides and ends of the table, said arms being in contact with the exterior of the tub at its sides and ends and acting to hold said tub in position. With the tub supported in this manner and with the interior surface of the tub entirely exposed there is no difficulty in dredging the enamel-powder evenly over the entire interior surface, so that a beautiful and permanent finish is imparted to the same. If, however, it is attempted to enamel the exterior surface of the tub supported in the manner described, the arms at the ends and sides interfere with the dredging of the enamel-powder evenly over the entire surface, bare places being left where said arms contact with the tub, while at the same time said arms rub off the enamel after it is applied.

The object of my invention is to provide for the holding of the tub upon the table in such a manner that the entire exterior surface of the sides and ends of the tub is completely exposed, so that the enamel-powder may be dredged evenly all over said surface without leaving any bare spots, while at the same time the tub may be tilted and turned as before without injury to the enamel.

The invention comprises, broadly, the securing of the tub on the working table from its bottom, so that the sides and ends are not engaged by any arms or other holding devices which will prevent the even distribution of the enamel.

In the accompanying drawings, Figure 1 is a side elevation of a tub supported according to my invention on the working table. Fig. 2 is a plan view of the table with the tub removed. Fig. 3 is a plan view of the bottom of the tub. Fig. 4 is an enlarged detail view of the manner of connecting the tub to the table, and Fig. 5 is a modified form.

Like letters indicate like parts in each of the figures.

The letter *a* represents the standards of the working table A. At the upper ends of the standards *a* are the journal-boxes *b*, adapted to receive the journals *c* on the ends of the tilting beam *d*. At or about the mid-point of the beam *d* is the vertical shaft *e*, said shaft being journaled in said beam. Secured to the lower end of the shaft *e* is the bevel gear-wheel *f*. Mounted on the upper end of the shaft *e* is the turn-table *g*, upon which the tub is supported. This turn-table *g* has the seats *h* thereon, said table having the openings *h'* therein. The table *g* has also the arms *g'*, upon which the bottom of the tub may rest.

In order to provide for the turning of the table *g*, a bevel-pinion *i* engages with the bevel gear-wheel *f*, said pinion being mounted on the shaft *j*, operated by the handle *k*.

To provide for the tilting of the beam *d*, a lever *l* is secured to said beam *d*. A spring-actuated rod *m* on the lever *l* carries a pawl, which is thrown into and out of engagement with the toothed rack *n* by grasping the handle *o*. This rack *n* is secured to one of the standards *a*.

The tub *p* or other vessel to be enameled has the projections or lugs *r* formed on the bottom thereof, said lugs having the openings *r'* therein. These projections *r* may be cast integral with the tub. One or more projections *r* may be employed as may be found necessary.

When it is desired to enamel the exterior of the tub *p*, said tub having been properly heated is placed upon the turn-table *g*, the projections *r* entering the seats *h* in said table. Pins or bolts *s* are then passed through the coincident openings *h' r'*, whereupon said tub is secured to the table *g*. The tub having been secured in place upon the table, the enamel-powder is then dredged on the sides and ends of the tub, the table being turned or tilted at different angles to permit of the even and thorough distribution of the enamel over the entire surface of the sides and ends of the tub. By supporting the tub from its bottom there are no obstructions to the thorough distribution of the enamel over the entire surface of the sides and ends of the tub, so that no bare spots remain. The one applying the enamel has free access to all points on the exterior of the tub, and the table may be tilted and turned without any liability of the tub falling therefrom.

It is apparent that the projections may be formed on the table and the seats in the bottom of the tub, as shown in Fig. 4, in which *t* represents the projections and *u* the seats.

Other ways of supporting the tub from its bottom may be employed, and I do not limit myself to the particular manner illustrated.

I am able by my invention to provide a tub with the same beautiful and permanent finish on its exterior as on its interior, something which has never heretofore been accomplished.

What I claim as my invention, and desire to secure by Letters Patent, is—

In devices for supporting bath-tubs when applying the enamel, the combination of a suitable frame, a tilting table supported thereby, said tilting table having a seat adapted to engage a lug on the bottom of the bath-tub, and means for securing said lug within said seat, substantially as set forth.

In testimony whereof I, the said WILLIAM C. DEGELMAN, have hereunto set my hand.

WILLIAM C. DEGELMAN.

Witnesses:

ROBERT C. TOTTEN,

ROBT. D. TOTTEN.