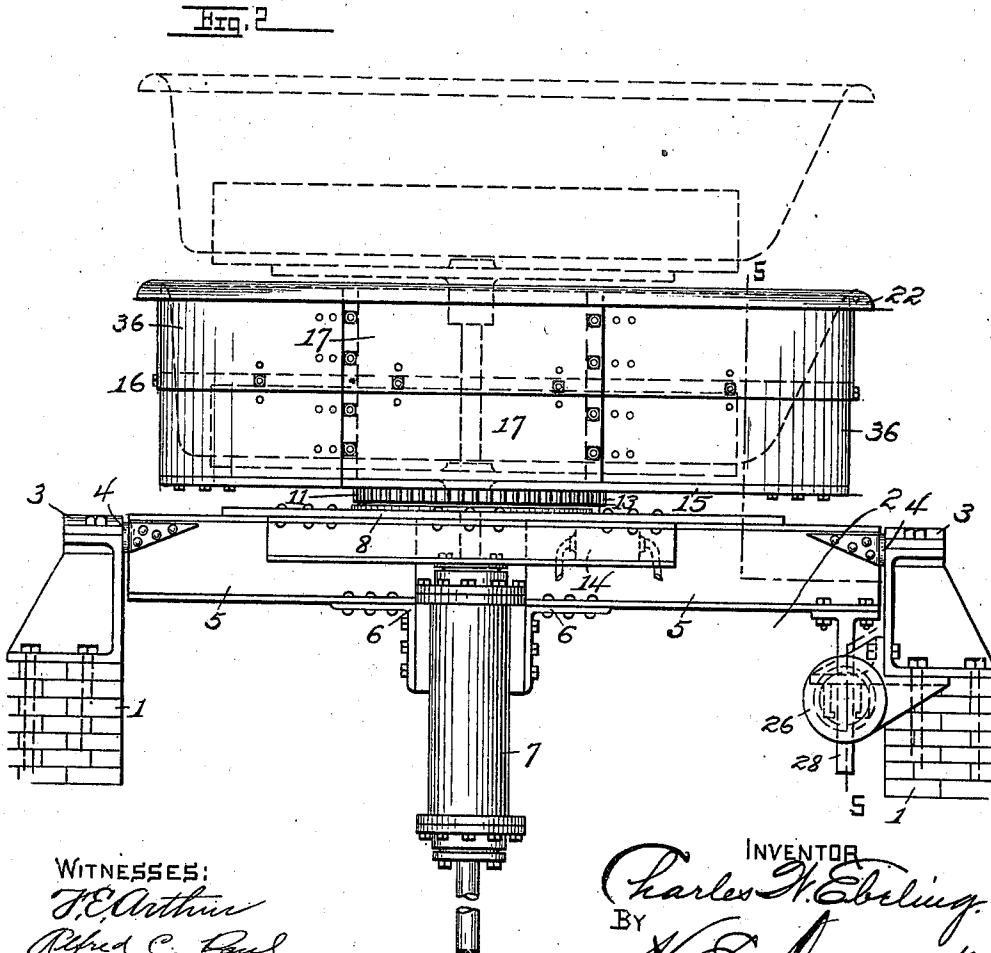
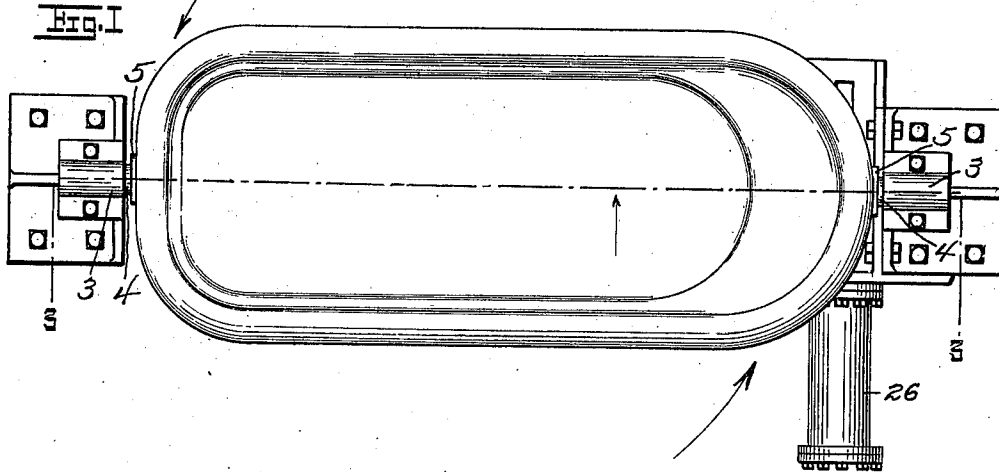


C. W. EBELING.
ENAMELING TABLE.
APPLICATION FILED APR. 9, 1910.

996,226.

Patented June 27, 1911.

2 SHEETS-SHEET 1.



WITNESSES:
J. E. Arthur
Alfred C. Paul

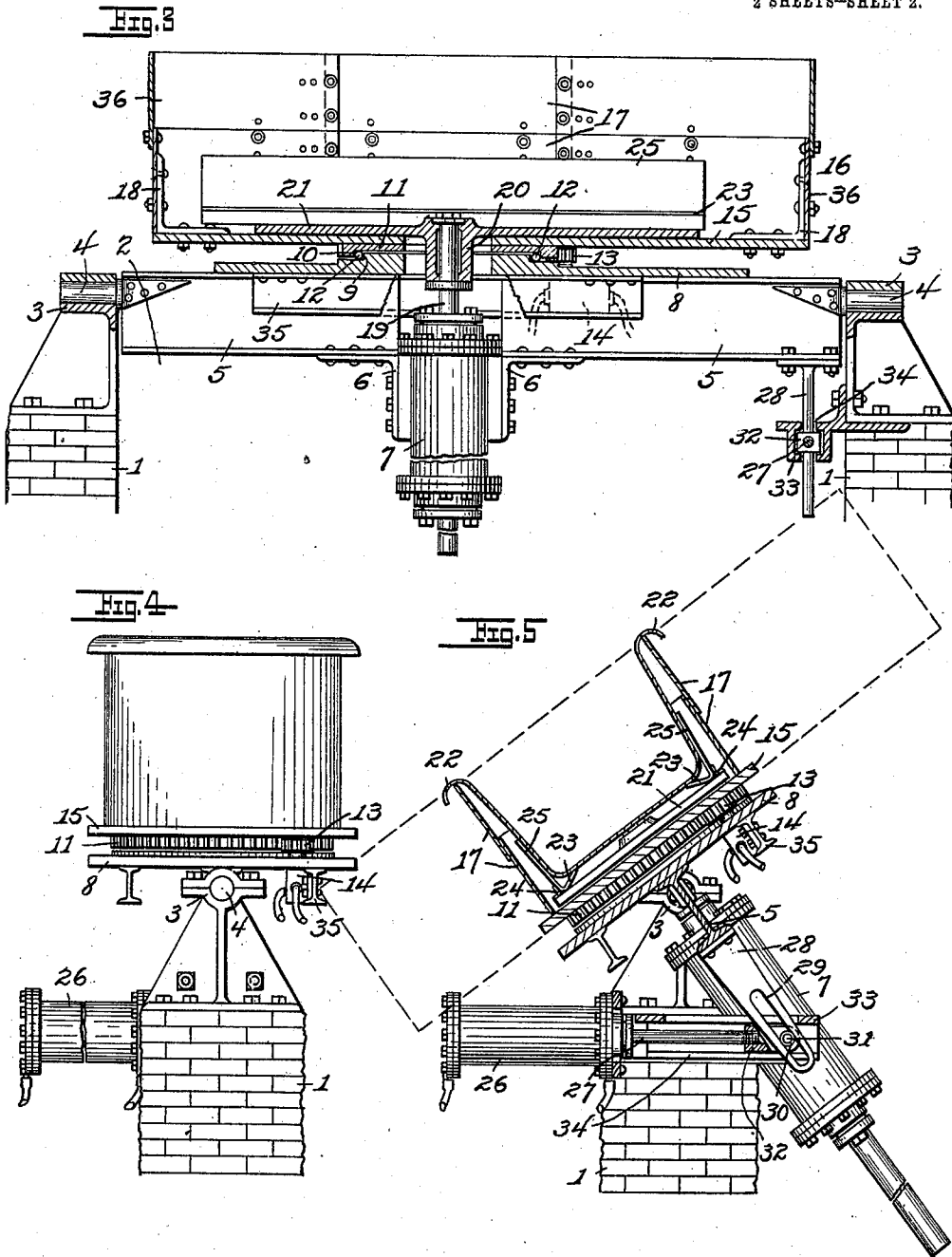
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Charles W. Ebeling
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UNITED STATES PATENT OFFICE.

CHARLES W. EBELING, OF ELM GROVE, WEST VIRGINIA.

ENAMELING-TABLE.

996,226.

Specification of Letters Patent. Patented June 27, 1911.

Application filed April 9, 1910. Serial No. 554,483.

To all whom it may concern:

Be it known that I, CHARLES W. EBELING, a citizen of the United States of America, and resident of Elm Grove, county of Ohio, and State of West Virginia, have invented certain new and useful Improvements in Enameling-Tables, of which the following is a specification.

This invention relates to an apparatus for supporting metal bath-tubs and similar articles during the application of enameling material thereto.

The primary object of the invention is to provide a rotary apparatus whereby heavy articles to be enameled are handled while the enameling material is being applied thereto, and also whereby said articles may be tilted or inclined so that the application of the material to the interior surfaces thereof is facilitated and a uniform distribution of said material is effected.

With these and other objects in view, the invention consists in the particular construction, arrangement and combination of parts which will hereinafter be fully described, reference being had to the accompanying drawings forming part of this specification, in which—

Figure 1 is a top plan view of the invention with a bath-tub mounted thereon; Fig. 2 is a side elevation of the same; Fig. 3 is a longitudinal section of the invention on the line 3—3, Fig. 1; Fig. 4 is an end elevation of the same; and Fig. 5 is a section taken substantially on the line 5—5, Fig. 2, the table being shown in its inclined position.

Referring to said drawings, in which like designating characters distinguish like parts throughout the several views, 1 indicates a support or foundation wall at opposite sides of a pit 2 over which the apparatus is mounted. Mounted on said wall 1 at opposite sides of the pit are bearings 3 in each of which is journaled a trunnion 4 carried by the end of an I-beam 5, the two I-beams being in direct alinement and having their inner or adjacent ends overlying and connected to oppositely disposed brackets 6 fixed upon opposite sides of the cylinder of a vertically-disposed motor 7 of the reciprocating-piston type. Mounted upon the top of said adjacent ends of said I-beams and bolted thereto is a bed-plate 8 having a central circular boss-like extension concentric with said cylinder 7, an annular shoulder 9 being thereby formed, between which and a circular shoulder 10, formed by undercutting the lower face of a horizontally disposed gear-wheel 11, ball-bearings 12 operate. Said gear-wheel 11 is mounted directly upon said ball-bearings and is in mesh with and driven by a pinion 13 which is actuated by an appropriate means, as by a small motor 14 of rotary type mounted in an appropriate position, as upon a small I-beam 35 carried on the under face of the bed-plate 8. Rigidly mounted upon the upper face of said gear-wheel 11 is a base member 15, upon which rests an adjustable shield or apron, designated in a general way by the numeral 16, said apron comprising overlapping bolted sections 17 which are adapted to be adjusted with relation to each other and to end sections 36 to vary the length and depth of the inclosure. Brackets 18 connect the end sections 36 to the base member 15, and these are adapted to be moved to appropriate positions on said base member, according to the length of inclosure to be constituted by said apron.

Rotatably mounted upon the upper end of the piston rod 19 of the motor 7 is the hub 20 of a horizontal plate 21 which normally rests upon the base member 15 within the inclosure hereinbefore described, said hub operating within registering openings provided in the bed-plate 8, gear-wheel 11, and base member 15.

When it is desired to mount a bath-tub, or other similar article, for applying enameling material to its interior surface, the sections of the apron 16 are first adjusted to conform the inclosure to the size of the article, or so that the roll or flange 22 of the article will closely overlies the upper edge of said apron while the bottom of the article rests upon the inwardly and upwardly inclined members 23 of bent metal plates which are arranged parallel to the sections 17 and are hinged as at 24, to said plate 21. The weight of the article resting upon said inclined members 23 causes the upright members 25 of said plates to closely grip the opposite walls of said article, as is clearly shown in Fig. 5. Then, the apron having been adjusted, the motor 7 is actuated to elevate the plate 21 to a point above the top of said apron, as shown in dotted lines in Fig. 2, whereupon the article to be acted upon is mounted in proper position, and the bed and article are together lowered to the position

shown in Figs. 1, 2, 4 and 5. In this position the application of the enameling material to the interior surface and rim of the article may be readily effected without any of
 5 said material touching the outer surface, the apron effectually shielding said outer surface and preventing such contact.

Prior to rotating the apparatus, with the ware mounted therein, the support is rocked
 10 to a tilted or inclined position, as shown in Fig. 5, the tilting being effected in any suitable or appropriate manner, preferably by mechanical means. The means shown comprises a suitably mounted motor 26 of a reciprocating piston type having its piston-
 15 rod 27 in operative engagement with an actuating lever 28 depending from one of the I-beams 5. Said lever has a longitudinal slot 29 therein in which operates an anti-friction roller 30 carried by a cross pin 31 of a
 20 slotted head 32 mounted upon the end of said piston rod. The head 32 travels between the members of a guide 33 which is slotted, as shown at 34, and has said lever 28 projected through the slot.
 25

When the piston rod 27 has been thrust outward to a position for giving the ware the proper inclination, the motor 26 is stopped. The motor 14 is then started to
 30 impart a rotary movement to the ware.

The enameling material may be applied to the ware in any suitable manner, but is preferably applied by means of a stationary downwardly-directed blast-nozzle. Since
 35 this blast-nozzle forms no part of the present invention, it is not herein shown. The tilting of the ware acted upon presents the interior surfaces of the substantially upright walls thereof directly to the action of the
 40 blasts, and the rotating of the ware serves to successively present the opposite sides and ends so that the entire interior surface of the ware is acted upon and the material is distributed uniformly over said surface.

45 After the application of the enameling material, the apparatus is caused to assume an upright position and the ware is elevated to a point above the top of the apron 16, whence it is readily removed.

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

1. An enameling apparatus comprising a tiltable bed-plate, a gear-wheel rotatable

upon said bed-plate, means for rotating said 55 gear-wheel, a base-member mounted upon said gear-wheel and rotatable therewith, an apron mounted upon said base-member, and means for lowering ware into the inclosure constituted by said apron and for elevating 60 it above said inclosure.

2. An enameling apparatus comprising a tiltable bed-plate, a gear-wheel rotatable upon said bed-plate, means for rotating said gear-wheel, a base-member mounted upon 65 said gear-wheel and rotatable therewith, an apron mounted upon said base-member, and a vertically movable ware-support whereon articles of ware are lowered into and elevated above the inclosure constituted by said 70 apron.

3. An enameling apparatus comprising a tiltable bed-plate, a gear-wheel rotatable upon said bed-plate, means for rotating said gear-wheel, a base-member mounted upon 75 said gear-wheel and rotatable therewith, an apron mounted upon said base-member, a vertically movable plate located within the inclosure constituted by said apron, and ware-holding means carried by said plate. 80

4. In an enameling apparatus, a tiltable bed-plate, a rotatable member mounted over said bed-plate, a base-member fixed upon said rotatable member, an apron mounted upon 85 said base-member, a vertically movable ware-support whereon articles of ware are lowered into and elevated above the inclosure constituted by said apron, and means carried by said support for maintaining the ware in place thereon. 90

5. In an enameling apparatus, a tiltable bed-plate, a rotatable member mounted over said bed-plate, a base-member fixed upon said rotatable member, an apron mounted upon said base-member, a vertically movable 95 ware-support whereon articles of ware are lowered into and elevated above the inclosure constituted by said apron, and hinged plates carried by said support whereby the ware is maintained in place on the 100 latter.

In testimony whereof I affix my signature in presence of two subscribing witnesses.

CHARLES W. EBELING.

Witnesses:

H. E. DUNLAP,
 ALFRED C. PAUL.