Mar. 6, 1923. 1,447,180

A. E. PLOYER

ENAMEL WARE PROTECTOR

Filed Apr. 24, 1922

Fig. 1.

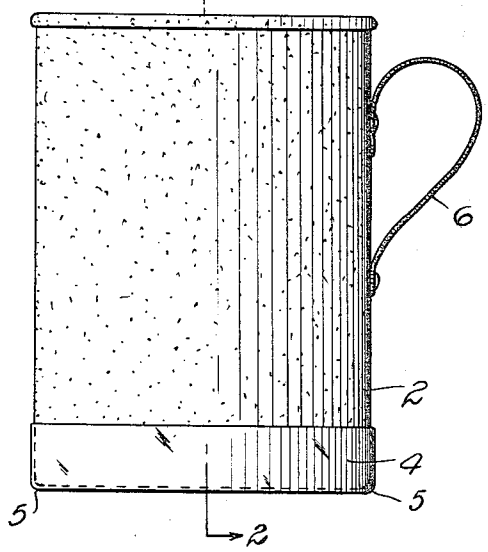


Fig. 2.

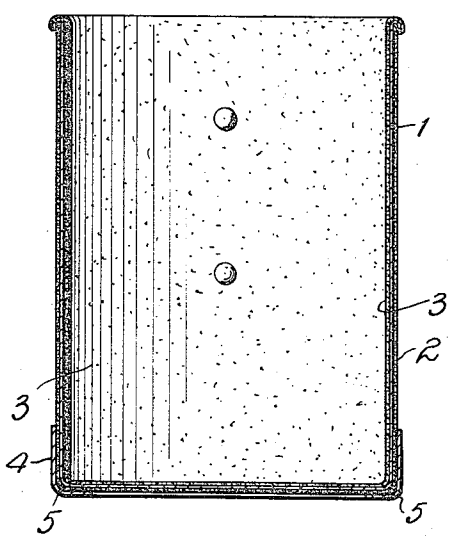


Fig. 3.

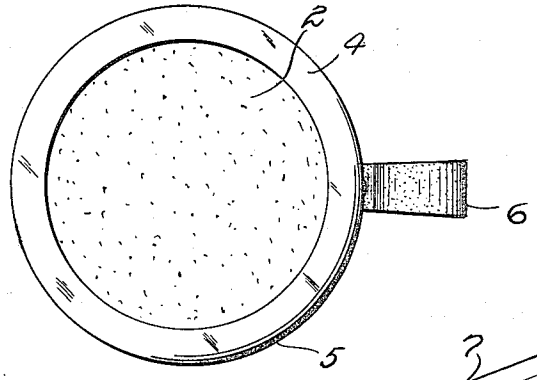
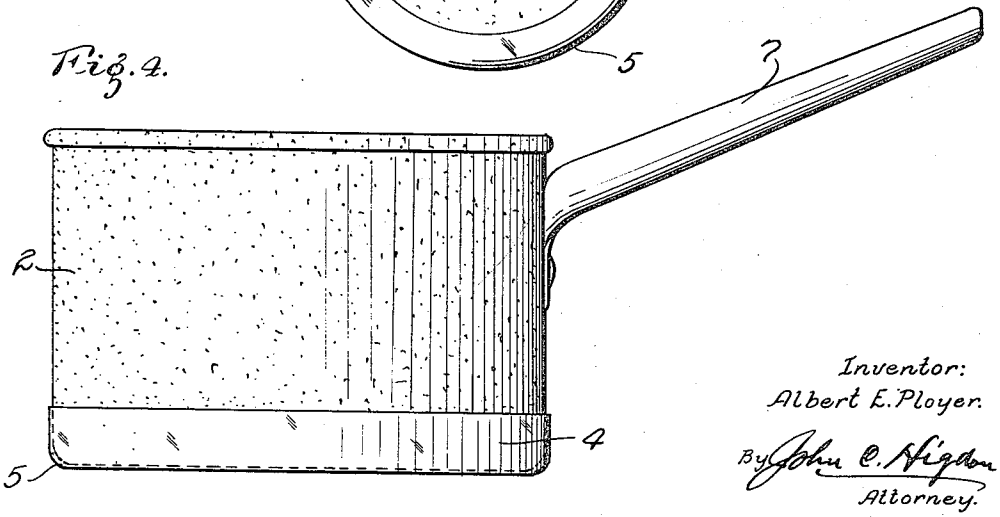


Fig. 4.



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UNITED STATES PATENT OFFICE.

ALBERT E. PLOYER, OF ST. LOUIS, MISSOURI.

ENAMEL-WARE PROTECTOR.

Application filed April 24, 1922. Serial No. 556,347.

To all whom it may concern:

Be it known that I, ALBERT E. PLOYER, a citizen of the United States, residing at St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Enamel-Ware Protectors, of which the following is a specification containing a full, clear, and exact description, reference being had to the accompanying drawing, forming a part hereof.

My invention consists in the novel construction hereinafter particularly described and distinctly claimed.

The object of my invention is to provide an improved means for protecting the enamel-coating of enamel-ware or granite-ware, to reinforce the same, and prevent chipping or breaking of said enamel during the use of said ware; whereby it will be more durable and efficient, and yet the cost will be low.

In the drawings,

Fig. 1 is a side-elevation of an enamel-ware handled-cup, having my invention applied thereto.

Fig. 2 is a vertical section of the same, taken on the line 2—2 of Fig. 1.

Fig. 3 is a view of the bottom of the same, and

Fig. 4 is a side-elevation of a handled stew-pan or similar enameled-ware cooking-utensil, having my invention applied thereto.

The numeral 1 designates the sheet-steel or metallic body of the vessel or utensil, to the exterior of which is applied, in the well-known manner, a coating of enamel or vitreous material 2, and to the interior of which body is applied also a like vitreous or frangible coating 3.

The numeral 4 designates a reinforcement and protector for the said enamel or vitreous coating, applied thereto in the present illustration of my invention, in the form of a ring of copper, which is substantially L-shaped in cross-section, and forced upon the base or lower end of the vessel or utensil, so that said ring will be held in place by frictional contact with the external coating 2 of said cup or utensil, and act thereon as a reinforcement to, and as a protection for, the said enamel or vitreous coatings.

Said metallic reinforcement 4 also acts as a reinforcement and protection to the interior enamel or coating 3, as well as to the said external coating 2, by preventing the chipping or breaking-off of the external coating in spots, and the consequent rusting or corrosion of the exposed spots thus deprived of an external protecting coating of enamel.

Said exposed spots of the metallic body 1 of the vessel, soon become so thin that they will be easily dented by accidental contact with hard objects during use, and this denting will break the internal coating 3, and permit internal rusting and corrosion. which will quickly result in holes in the vessel, and its consequent leaking and worthlessness.

The particular advantages of the metal copper are that it is comparatively soft, and acts as a cushion, preventing disagreeable noise which would occur if the protecting-ring were made of a harder metal and the vessel carrying it were thrown recklessly or violently into contact with the top of the range or stove; copper being also one of the best known conductors of heat, will rapidly conduct the heat of the fire to the protected vessel; and this is true especially because the comparatively soft copper ring acts as a sort of gasket, and makes a tight fit between the stove or range top and the vessel which carries said copper ring, thereby enabling the heat to pass more readily from the hot stove-top, or from the exposed fire, to the said vessel.

The lower corner of enameled-ware vessels is usually rounded, and I consequently make the corner of my copper reinforcement rounded as at 5, to fit said rounded corners of the vessels.

The numerals 6 and 7, respectively, designate the handles of the vessels shown.

I claim:—

1. The combination of a vessel enameled on the outside, and a protecting-ring of copper, arranged around the lower portion of the vessel, and having an annular integral

portion extending inwardly under the bottom of the vessel.

2. The combination of a vessel enameled on the outside and inside, and a protecting-ring of copper arranged around the lower portion of the vessel, and having an annular integral portion extending inwardly under the bottom of the vessel.

In testimony whereof, I have signed my name to this specification in presence of two subscribing witnesses.

ALBERT E. PLOYER.

Witnesses:
B. PLOYER,
HENRY L. HIGDON.