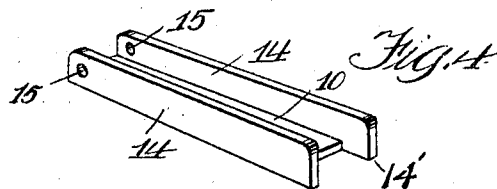
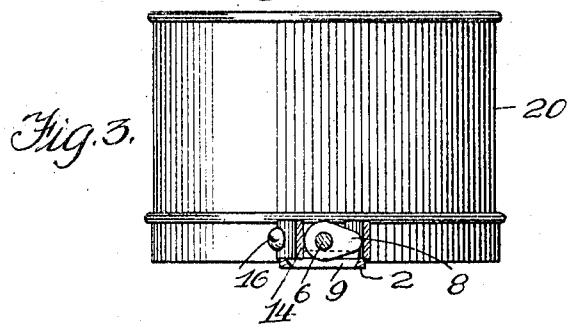
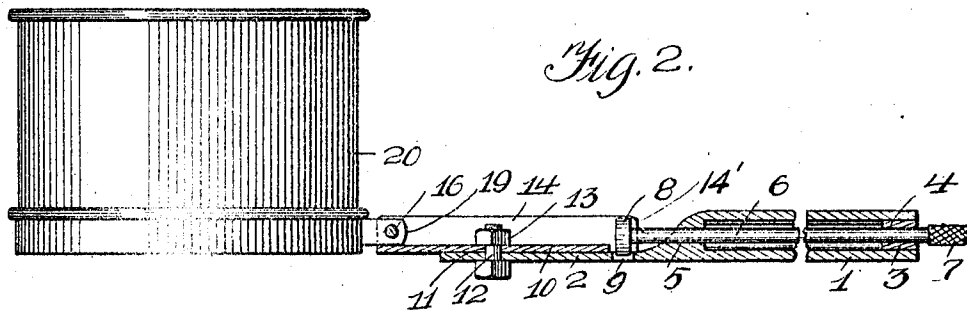
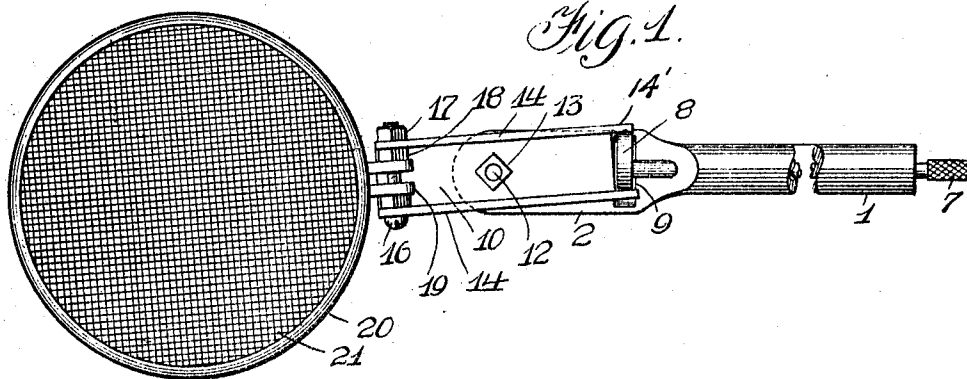


W. L. REED.
DREDGER FOR PULVERULENT MATERIAL.
APPLICATION FILED JUNE 7, 1910.

1,004,466.

Patented Sept. 26, 1911.



WITNESSES

Samuel Payne
Karl H. Butler by

INVENTOR

W. L. Reed.
N. C. Everett & Co.
Attorneys.

UNITED STATES PATENT OFFICE.

WILLIAM L. REED, OF PITTSBURG, PENNSYLVANIA.

DREDGER FOR PULVERULENT MATERIAL.

1,004,466.

Specification of Letters Patent.

Patented Sept. 26, 1911.

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To all whom it may concern:

Be it known that I, WILLIAM L. REED, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Dredgers for Pulverulent Material, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to dredgers for pulverulent material, and more particularly to dredgers for use in sifting and distributing powdered enameling material over the surface of bath tubs and other vessels and articles.

The object of my invention is to provide a dredger or sieve with positive and reliable means for vibrating the receptacle containing the powdered enameling material, whereby the material will be agitated to that extent as to be readily and evenly distributed when the dredger is moved over the surface of a bath tub or article to be enameled. I attain the above object without the use of electrical means and without resorting to a complicated, expensive, or flimsy structure that is liable to get out of order by ordinary use.

My invention resides in the novel construction, combination and arrangement of parts to be hereinafter more fully described and then claimed, and reference will now be had to the drawing forming a part of this specification, wherein there is illustrated a preferred embodiment of the invention, but it is to be understood that such changes and modifications can be resorted to as fall within the scope of the appended claims.

In the drawing: Figure 1 is a plan of the dredger partly broken away. Fig. 2 is a side elevation of the same partly broken away and partly in longitudinal section. Fig. 3 is a cross sectional view of the dredger, and Fig. 4 is a perspective view of and oscillatory channel-shaped member adapted to form part of the dredger.

Like numerals of reference designate corresponding parts in each of the figures of the drawing.

The reference numeral 1 designates a tubular handle or rod having the forward end thereof closed and flattened to provide a support 2. In the rear end of the handle

there is a sleeve 3 and the bore 4 of said sleeve is adapted to longitudinally aline with the longitudinal opening 5 formed centrally in the closed forward end of the handle. Journaled in the bore 4 and the opening 5 is a longitudinal rigid shaft 6 and connected to the rear end of said shaft is a flexible shaft 7 adapted to be driven from a suitable source of power. The forward end of the shaft is provided with a heart-shaped cam 8 and to provide clearance for this cam when the same is rotated the support 2 is provided with a transverse slot 9.

Fulcrumed upon the forward end of the support 2 is an oscillatory channel-shaped member 10, the base of said member having an opening 11 to receive a bolt 12 extending upwardly through the support 2, said bolt being retained in engagement with said support and the member 10 by a nut 13. The side walls or flanges 14 of the member 10 extend inwardly from the base of said member and at the rear end project beyond the base plate forming extensions 14' which span and are adapted to be engaged by the heart-shaped cam 8, the distance between said side walls corresponding to the major axis of the cam. The forward ends of the side walls 14 are provided with apertures 15 to receive a bolt 16 retained in engagement with the side walls 14 by a nut 17. Mounted upon the bolt 16 between the walls 14 are washers 18 and the apertured lugs 19 of the sieve or sifter consisting of a cylindrical shell 20 and a horizontal screen 21 at the bottom thereof through which the enameling material is shaken.

When the dredger is connected up for use the flexible shaft 7 will revolve the shaft 6 within the handle 1 and through the medium of the heart-shaped cam 8 the member 10 will be oscillated upon the support 2, thus vibrating the sieve or sifter and agitating the contents thereof to that extent that the contents will be shaken through the screen 21. With the enameling material evenly distributed from the sieve or sifter an operator manipulating the dredger by the handle 1 can easily cause an equal distribution and dissemination of the material upon a surface.

I attach considerable importance to the simplicity of construction entering into my invention, insomuch that the dredger consists of comparatively few parts, easily and

quickly assembled, free from injury by ordinary use, and easily maintained in an operable condition.

What I claim, is:

- 5 An oscillating mechanism for dredgers, comprising a handle having a flattened extension at its forward end constituting a support, said support having a slot there-
10 through adjacent the rear end thereof, a shaft journaled in the handle longitudinally thereof and having a cam on its forward
15 end which alines with and works in said slot when the shaft is rotated, and an oscillatory-member comprising a base plate pivotally mounted on the handle extension for

rocking movement thereon and provided with upwardly extending side flanges projecting beyond the rear end of the base plate and spanning the cam to be alternately engaged by the latter as the shaft is rotated, 20 the side flanges of the oscillatory member at the forward ends thereof having the dredger to be oscillated attached thereto.

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

WILLIAM L. REED.

Witnesses:

MAX H. SROLOVITZ,
KARL H. BUTLER.