July 20, 1937. O. L. NELSON 2,087,412

RECEPTACLE HOLDER FOR PAINT MIXING MACHINES

Filed Aug. 29, 1935

FIG. 1.

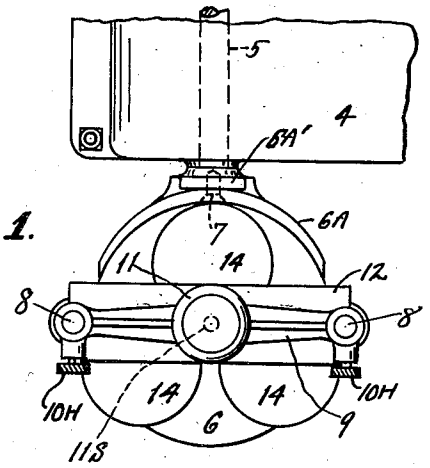


FIG. 3.

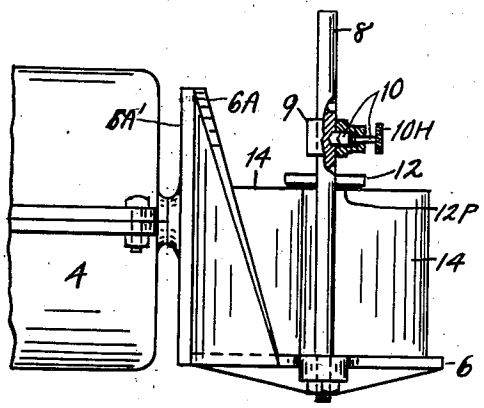
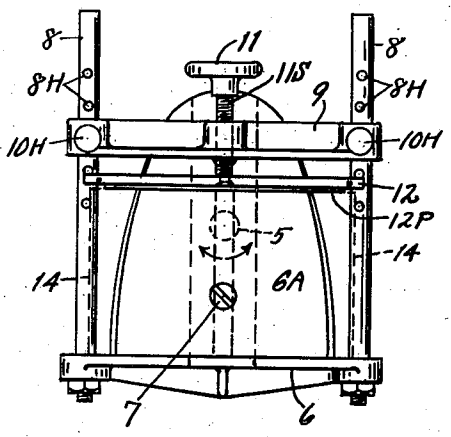


FIG. 2.



INVENTOR
Olof L. Nelson

BY David E. Carlsen
ATTORNEY.

Patented July 20, 1937 2,087,412

UNITED STATES PATENT OFFICE

2,087,412

RECEPTACLE HOLDER FOR PAINT MIXING MACHINES

Olof L. Nelson, St. Paul, Minn.

Application August 29, 1935, Serial No. 38,424

2 Claims. (Cl. 259—56)

My invention relates to a device for holding receptacles for paint and like products in so-called paint mixing or rejuvenating machines particularly the type of machine in which is provided one or more oscillating shafts. This oscillator type of machine is fully disclosed in Patent Number 1,908,561, issued May 9th, 1933.

The main object of this invention is to provide a device for paint rejuvenating machines of the class referred to said device having readily adjustable means for holding one or more sizes of cans rigidly during the oscillating action involved. In the industry paint and analogous products are provided in predetermined sizes of containers, most popular sizes being cylindrical cans of one quart, two quart, one gallon, two gallon and five gallon capacity. This holder device is adaptable for quick adjustment to support and hold one or more of any of said sizes rigidly, as hereinafter fully set forth, reference being had to the accompanying drawing, in which,—

Fig. 1 is a top view of the holder device as applied to the oscillator shaft of a paint mixing machine.

Fig. 2 is a front elevation of the holder and Fig. 3 is a side elevation.

Referring to the drawing by reference numerals, 4 designates a mechanism housing in which is journaled a reciprocating shaft 5 which exteriorly of the housing is formed with an integral normally vertical arm 5A forming with the shaft a member of T-shape. This shaft and its arm are oscillated by any suitable mechanism such as provided in the patent above referred to and for the purpose of thoroughly mixing and rejuvenating paint and like products in containers such as the usual cylindrical cans.

This device comprises a horizontal tray 6 preferably of about round contour and from the rear side of its perimetrical edge extends vertically an upright, integral shield or wall 6A of arcuate form in cross section, the outside face of said wall provided with a shallow groove 6A' of such length and width as to be firmly and rigidly engaged by the rock shaft arm 5A and said two parts being secured together by suitable means such as the flat head screws 7. The latter are located with respect to tray 6 so that shaft 5 is about central of wall 6A, between its top and the tray (see Figs. 2 and 3).

At diametrically opposite sides of the tray I provide a pair of rigid, upright posts 8 parallel to each other and both provided above the tray with a row of shallow apertures 8H.

9 is a crosshead, normally in horizontal plane and movable vertically on the posts 8 to any predetermined height and retained in such elevation in pairs of said holes 8H by means of spring-pressed pins 10, each with an exterior head 10H. Each pin is of course continuously pressed toward its post and engageable in any one of the apertures 8H, the pin being easily retracted by pulling its button-head outwardly.

11 is an adjuster wheel, the shaft 11S of which is threaded and engaged in a correspondingly threaded hole in the center of the crosshead, through the latter and below it pivotally retained at its lower terminus in a secondary crosshead or adjustable contact plate 12 extending lengthwise under the main crosshead and its opposite ends recessed to be loosely guided vertically on the uprights 8. The under side of the contact plate 12 may be provided with a soft pad 12P of rubber or other suitable material.

Obviously the crosshead 9 may be set at any desired height in parallel spaced relation to the tray 6, after which the contact plate, also continuously in parallel relation to said base, is adjusted vertically by means of wheel 11. Thus it is possible to place one or more paint cans of like height on base 6, under plate 12, allowing a little clearance under the latter, then adjusting the contact plate by rotation of wheel 11 until it contacts the receptacle tops as tightly as deemed necessary. In Figs. 1 and 3 is clearly shown how three cans of one size can be retained under the contact plate it being of course necessary to set them in such positions that all are firmly contacted and clamped between plate 12 and the base 6.

It will be readily understood that this device may be made of such size that quite a variety of sizes of receptacles can be retained therein. For example, in a practical size thereof four pint cans, three quart cans or a one gallon can may be placed in it. Such receptacles are designated 14 in the drawing, in full lines in Figs. 1 and 3 and in dotted lines in Fig. 2.

After placing one or a set of cans in the device rigidly as described, the mechanism which oscillates shaft 5 is set in motion and the entire holder oscillates, swaying the can or cans in a vertical plane and the motion thus set up stirs the contents of the cans until the heavier pigments and other ingredients are thoroughly mixed with the lighter ingredients and the paint is rapidly put in condition for immediate use when the cans are opened. In other words paint thus treated is rejuvenated and a paint merchant with my device may at intervals go over his en-

tire stock of canned paints and keep it in best possible condition.

The preferred form and the use of my device have been fully disclosed but it is obvious that modifications may be embodied within the sphere and scope of said description and the following claims.

I claim:

1. In a receptacle holder for paint mixing machines having an oscillating shaft provided at its extremity with an upright integral member oscillatable in a vertical plane; said holder comprising a horizontally disposed base with an upright integral part at one side securable to said upright shaft member, said base arranged to support a number of receptacles, means connected with said base and adjustable with relation thereto for engaging the top parts of the receptacles thereon and for clamping the receptacles therebetween, said receptacle holding means comprising a pair of upright posts fixed in said base, a crosshead engaging said posts and movable vertically thereon and means for holding said cross head at selective elevations, a horizontal contact plate under the crosshead guided by said posts and adjustable vertically to engage or disengage the receptacles on the base.

2. In a receptacle holder for paint mixing machines having a horizontally mounted oscillating shaft provided at one end with an upright elongated member oscillatable in a vertical plane; said holder comprising a horizontally disposed base with an upright integral part at one side and removably securable to said upright shaft member, said base arranged to support a number of receptacles, means connected with said base and adjustable with relation thereto for engaging the top parts of the receptacles thereon and for clamping the receptacles therebetween, said means comprising a pair of upright posts fixed in said base, a crosshead slidably engaging said posts and movable vertically thereon to any one of a predetermined number of positions, a horizontal contact plate comprising a secondary crosshead parallel to and under the main crosshead, a threaded rod rotatably retained in the central part of said plate and extending upwardly through a correspondingly threaded bore in the main crosshead, and turning means on said threaded rod above the main crosshead.

OLOF L. NELSON.