F. H. SHEVALIER.

RENEWABLE PAINT CUP AND SCRAPER.

APPLICATION FILED MAY 5, 1917.

1,293,951. Patented Feb. 11, 1919.

FIG. 1.

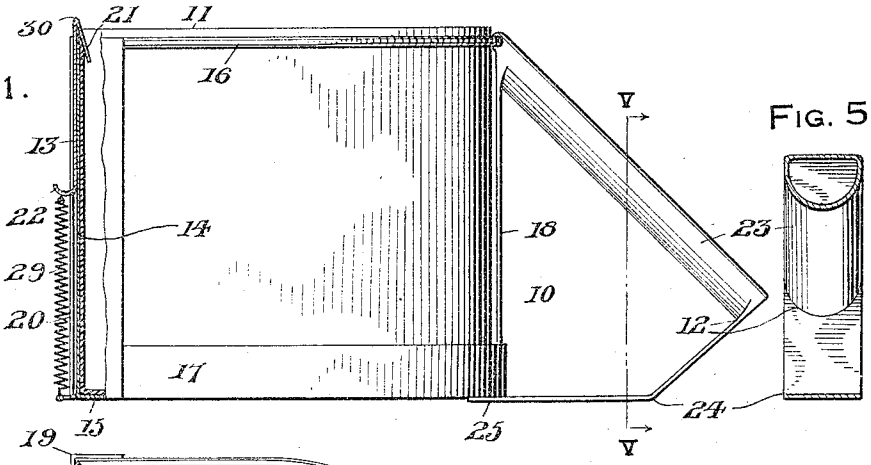


FIG. 5

FIG. 2.

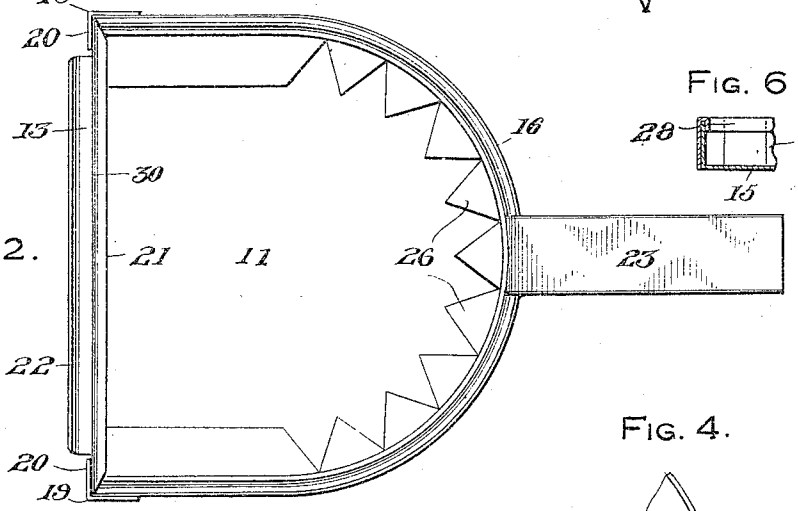
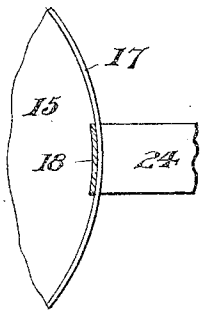


FIG. 6.

FIG. 4.



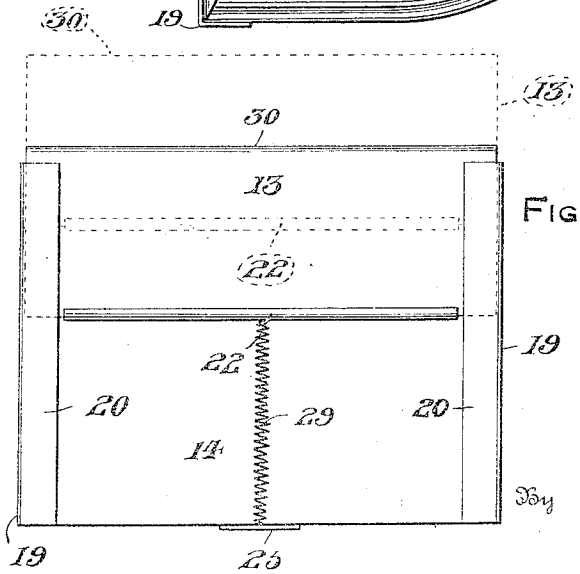


FIG. 3.

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RENEWABLE PAINT CUP AND SCRAPER.

1,293,951. Specification of Letters Patent. Patented Feb. 11, 1919.

Application filed May 5, 1917. Serial No. 166,717.

To all whom it may concern:

Be it known that I, FRANK H. SHEVALIER, a citizen of the United States, residing at Ithaca, in the county of Tompkins and State of New York, have invented certain new and useful Improvements in Renewable Paint Cups and Scrapers, of which the following is a specification.

This invention relates to certain new and useful improvements in renewable paint cup and scraper.

The primary object of the invention is the provision of a serviceable paint cup adapted for use in shops such as automobile paint shops and constructed in such a manner as to obviate the necessity of washing and cleaning the same when it is desired to discontinue the use thereof or to change the coating fluid held thereby.

A further object of the device is the provision of a holder for serviceably supporting removable receptacles of low cost in an operative manner for holding coating fluids for manipulation by the usual brushes, an exceedingly comfortable hand-hold member being carried by the holder.

A still further object of the device is the provision of a rigid holder for renewable fluid containers having a rigid bottom and side support, an interlocking removable paint scraper being carried by said side support adapted for performing the dual function of retaining the container within the holder and collecting the paint falling outwardly of the scraper during the operation of the device.

With these general objects in view and others that will appear as the nature of the invention is better understood, the same consists in the novel construction, combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawing and pointed out in the appended claims.

In the drawing forming a part of this application and in which like numerals refer to corresponding parts throughout the several views:

Figure 1 is a side elevation of the device partially broken away.

Fig. 2 is a top plan view thereof.

Fig. 3 is a front elevation of the same,

Fig. 4 is a detail sectional view of the rear portion of the holder,

Fig. 5 is a sectional view taken upon line V—V of Fig. 1, and,

Fig. 6 is a detail sectional view through a portion of the bottom.

Referring more in detail to the drawing, the device broadly consists of a holder or frame 10 for the removable retention of a paper cup or container 11, a serviceable handle 12 being arranged upon the holder 10 while a paint brush scraper 13 is detachably carried by the holder for locking the cup 11 in its operative position.

The holder 10 has one plane rigid side 14 preferably formed of metal integrally with the bottom 15 which is substantially semicircular in form, a bead or wire 16 of similar outline being arranged above and in substantial alinement with an upstanding flange 17 of the bottom and attached to the latter by a rib 18 arranged at the rear of the holder 10 in parallelism with the front side 14 thereof, it being understood that the free ends of the wire 16 are attached to the opposite upper corners of the said side 14. This arrangement provides a tray form of bottom for the holder adapted to receive and hold the cup 11.

Reinforcing right angular corner strips 19 connect the opposite ends of the side 14 with the wire 16 and flange 17 while the portions or webs 20 of said strips 19 lie forwardly slightly spaced from the holder side 14 serving as guides for the removable reception of the scraper 13 therein. The scraper 13 is substantially Z-shaped in cross-section having a marginal lip 21 at one longitudinal edge thereof projecting at an acute angle with the body of the scraper and overlying the top edge of the holder side 14 as well as that of the adjacent side of the cup 11 when the scraper is in its lowered operative position, the cup 11 being thereby locked upon the holder 10. This form of cup having a straight side engaging a similar side of the holder permits the lip 21 to impinge the upper edge of the cup tightly against the corresponding edge of the holder side thereby locking the cup within the holder although readily released by removing the scraper 13 by forcing the same upwardly out of the webs 20. A combined handle and paint receiving trough 22, slightly arcuate in cross-section is arranged at the lower end of the scraper 13 and at the opposite side thereof from the lip 21.

The handle 12 is especially designed for comfortably grasping and elevating the device by the operator when the cup 11 is

filled with paint, it being noted that the main shaft 23 of the handle is tubular and substantially semicircular in cross-section being arranged at an acute angle rearwardly of the rib 18 and attached to the latter at the top thereof adjacent the bead wire 16. An angular connecting strip 24 has its outward end attached to the lower end of the shaft 23 perpendicular thereto while the inner end of the strip 24 which is in the shape of an obtuse angle is attached to the bottom 15 of the holder as at 25 at a right angle to the rib 18. When the device is positioned upon the floor or at a low elevation, for instance during the painting of the wheels of an automobile, the shaft 23 of the handle 12 is positioned to be conveniently grasped by the operator in lifting and transferring the device from one place to another, the hand being accommodated between the rib 18 and the strip 24.

It will be understood that the holder 10 may be entire, that is, cup-shaped if desired instead of in the form of a frame as now preferred while the cup 11 is formed of suitable material for holding paint and desired fluids it being obvious that the scalloped connecting portion 26 between the side and bottom of the cup 11 is only one manner of forming the cup. The cup 11 may also have a flaring overlying upper edge for engaging the bead 16 if desired while the cup may be slightly tapered for the purpose of nesting a plurality of cups together for storage purposes.

The bottom 15 of the holder 10 may be formed as herein illustrated in Fig. 6 of the drawing having upturned slotted marginal portions 27 with the overturned upper edge 28 of the member 17 securing the same in position and together forming a flange of double thickness rendering the entire bottom member of the holder 10 a receiver or pocket for the cup 11. A spring 29 may be connected substantially centrally to the trough 22 and any adjacent lower portion of the holder side 14 for resiliently maintaining the scraper 13 normally lowered, it being evident that upon elevating the scraper the cup 11 may be removed and a new one inserted, whereupon the spring 29 will automatically return the scraper 13 to its lowered engaging position. The spring however, may be omitted if desired while the side webs 20 may be omitted when the spring 29 is employed, the spring then serving to maintain the scraper with its upper lip seated over the upper edges of the cup and holder.

In the use of the device with the paint provided in the cup 11, a brush being inserted in the cup will have its weight as well as that of the paint supported by the metal bottom 15 of the holder while the front side 14 may be employed to wipe out the brush which can then be forcibly scraped over the top edge 30 of the scraper 13. Any paint falling within the trough 13 is readily wiped out of the same by the brush in the hand of the operator. If found desirable, the front side 14 as well as the bottom 15 may be in the form of frames for rendering the holder of less weight although possessing less strength for the operation of the device in the manner above set forth.

A serviceable paint cup having a renewable container is arranged of light weight and inexpensive to manufacture and which saves great expense in the washing of paint and similar cups. While the form of the invention herein set forth is believed preferable it will be understood that changes may be made therein in details of construction without departing from the spirit and scope of the invention as claimed.

What I claim as new is:—

1. A paint cup holder comprising a frame having a substantially semicircular bottom portion and a three-sided handle carried by the opposite side of the frame having a grasping portion projecting at an acute angle downwardly from the upper edge of the frame.

2. A cup receiving frame of substantially semicircular cross-section having a plane front side and a handle projecting radially downwardly and outwardly at an acute angle from the upper edge of the frame opposite the said side thereof in a position for ready grasping when the cup is set down.

3. A frame having one straight side and a pocket form of tray shaped bottom adapted for holding a paper cup and a three-sided handle carried by the frame opposite the said straight side thereof, one side of the handle being formed arcuate upon its inner side and extending at an acute angle from the mouth portion of the frame toward the plane of the bottom thereof and another side of the handle being arranged substantially in the same supporting plane as the frame bottom, the remainder of the handle connecting said handle sides together.

4. A receiving frame having a bottom and one adjacent straight side with the remaining sides of the frame open, and adapted to hold a cup substantially semicircular in cross section and a handle having a handhold shaft projecting at an acute angle from the side of the holder toward the plane of the bottom of the latter, and a scraper slidably positioned upon said straight side having an angular lip adapted for overlying the top of said side and the adjacent side of the cup within the holder when the device is in use.

5. A paper cup holding frame having a solid bottom and with the greater portion of its sides open and an oblique handle carried by the frame extending toward the

plane of the bottom and having a portion in substantially the same plane as the frame bottom adapted for assisting in supporting the device.

6. A device of the class described comprising a cup holding frame having a plane side wall and a scraper slidably positioned outwardly thereof with a marginal lip normally overlying the free edge of said wall adapted for engaging a cup positioned within the frame and forming a brush scraping edge.

7. A device of the class described comprising a frame having a side, and a scraper slidably arranged outwardly of the frame side with a lip projecting at an acute angle inwardly of the frame, overlying the upper edge thereof and forming a brush scraping edge.

8. A paint holder comprising a paper cup receiving frame having a straight side and an open arcuate side, angular strips connecting the said sides at the opposite marginal edges of said straight side and spaced therefrom and a scraper slidably arranged between the said strips and straight side with an inturned top lip adapted for overlying one edge of a cup arranged within the frame and forming a brush scraping edge.

9. A device of the class described comprising a cup holding frame having a front side, a scraper having a cup engaging marginal lip normally projecting within the frame and automatic positioning means for the said scraper.

10. A device of the class described comprising a frame adaptable for the removable reception of a paper cup substantially semicircular in cross-section and having a straight side, guide strips at the opposite edges of said side, a scraper flatly engaging the said side slidably arranged within the said strips and having a marginal lip overlying the top edge of said side, a drip trough at the lower edge of said scraper and resilient connections attached to said scraper and said side.

11. A cup receiving frame having a side wall, a scraper slidably carried by said wall having a retaining lip normally overlying the free edge of said wall at the top of the frame and a combined drip trough and operating handle upon the said scraper.

In testimony whereof I affix my signature.

FRANK H. SHEVALIER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."