(No Model.)

G. R. CASSIE.

AIR TIGHT PAINT STIRRING CAN.

No. 266,674. Patented Oct. 31, 1882.

Fig. 1.

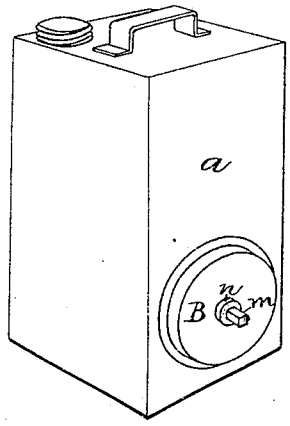


Fig. 2

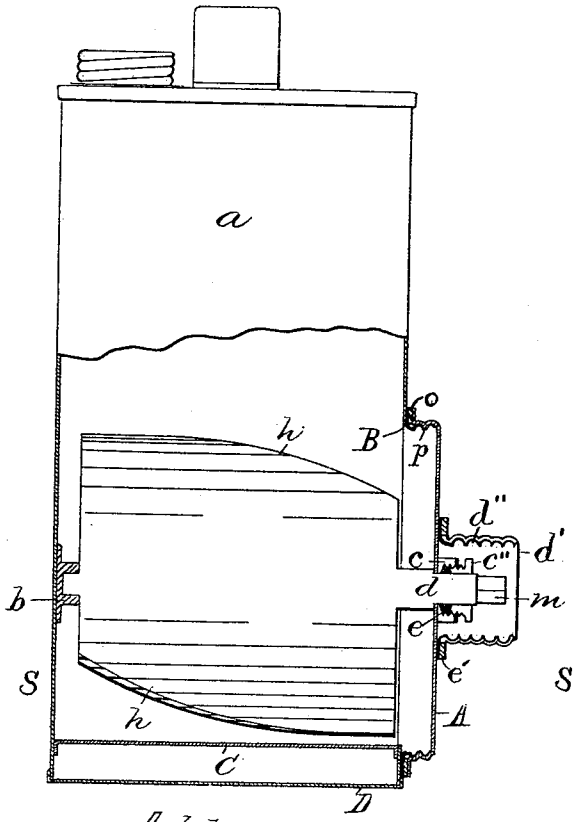
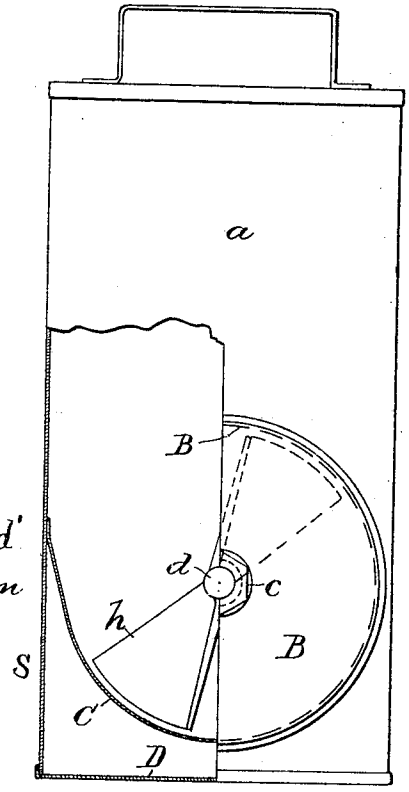


Fig. 3



Attest:

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UNITED STATES PATENT OFFICE.

GEORGE R. CASSIE, OF NEWARK, NEW JERSEY.

AIR-TIGHT PAINT-STIRRING CAN.

SPECIFICATION forming part of Letters Patent No. 266,674, dated October 31, 1882.

Application filed January 25, 1882. (No model.)

To all whom it may concern:

Be it known that I, GEO. R. CASSIE, a citizen of the United States, residing in the city of Newark, county of Essex, and State of New Jersey, have invented certain new and useful Improvements in Air-Tight Paint-Stirring Cans, fully described and represented in the following specification and the accompanying drawings, forming a part of the same.

This invention is designed as an improvement upon the paint-can patented to me November 18, 1879, and is intended to obviate the following defects in the said invention: First, the said can, having a bottom rounded externally to fit the curve of the contained stirring device, served only as a casing for the stirrer, was unable to stand upright without a support, and was therefore provided with pivots at the side and hung upon brackets; second, the support for the external end of the stirring-shaft was not readily removable for cleaning out the can. The first of these defects I remedy by combining with the curved casing suitable extensions of or from the body of the can, so that it has a stable support upon a base of its own, and may be set anywhere for convenient use upon a flat surface. The second defect I remedy by combining with the outer end of the stirring-shaft a sheet-metal screw-cap formed with a bearing and packed joint in the center, and constructed to expose, when removed from the can, an aperture large enough to remove the stirrer and permit the interior of the can about the stirrer to be cleaned.

My improvements are shown in the annexed drawings, in which Figure 1 is a perspective view of the exterior of the can. Fig. 2 is a side view of the same with the lower part of the body *a* and the screw-cap A and its attachments shown in section; and Fig. 3, a front view of the same, with the lower part of the half at the left side of the center-line in section just inside the front surface of the can.

The can is shown as of upright rectangular form, with the stirring-shaft *d* or its blades *h* disposed horizontally across the lower part, and incased upon the lower side by a semi-cylindrical shell, C. The sides of the can are extended downward, as at *s*, a little below the bottom of the casing C, and are shown inclosed or headed by a flat plate, D, which thus forms a flat bottom, beneath the casing C, upon which the can will stand upright, as desired.

To remove the stirring-blade from the can with facility, I form a circular opening, B, in the side of the can concentric with the stirrer-shaft *d*, and close the same by a sheet-metal screw-cap, A, applied to a screw-thread, *p*, soldered to the can around the margin of the opening B. The inner bearing of the stirring-blades is secured to the rear side of the can at *b*, while the front bearing, *c*, is secured to the center of the removable cap A, and provided with a packing, *e*, to make an air-tight joint. A packing, *o*, is also provided around the base of the screw-thread *p*, to make a tight joint between the screw-cap A and the body of the can. By this construction the cap A can be removed at pleasure by merely turning it with the fingers, and the can freed from obstructions or cleansed to insert a new mixture.

The external end of the screw-shaft *d* is shown formed with a square, *m*, for the application of a crank or other turning device, and the packing at the joint of such shaft may, if preferred, be made with a small screw-cap, *d'*, screwed over the extreme end of the shaft or square, upon a screw-thread, *d''*, soldered to the center of the cap A around the bearing *c*, and provided with an annular packing, *e'*, as described, for the screw-thread *p*. With this construction the packing *e'* is not affected by the rotations of the shaft, which is turned only when the cap *d'* is removed, while by the use of a packing removably secured in the bearing *c* the wear is considerable, but can be easily compensated by renewing the packing material.

The construction shown for maintaining the can upright without the aid of the pivots and brackets heretofore used by me is the best adapted for the purpose; but the bottom D might be dispensed with without affecting the operation of the sides *s* in sustaining the can upright. The projection of the sides *s* below the center of the stirring-shaft might also be avoided by securing feet to the curved shell C and arranging them to steady the can vertically. I do not, therefore, limit myself to the precise construction shown, but consider my improvement in that respect to lie in combining with the body *a*, having the semi-cylindrical casing formed across its lower part, suitable exten-

sions of or from the body to hold it upright when placed upon a flat surface.

Having thus set forth my invention, I claim the same as follows:

1. The combination, with the rectangular can-body *a*, having a stirring shaft or blade inserted transversely across its lower part, and provided with a semi-cylindrical casing, C, as and for the purpose described, of projections of or from the body of the can at its lower part, for holding it in an upright position when set upon a flat surface, substantially as herein set forth.

2. The combination, with the body *a*, having a stirring-blade inserted transversely across the lower part, and provided with an aperture, B, for inserting the blade, as described, of the sheet-metal screw-cap A, provided with a bearing and packed joint for the shaft of the stirring device, and fitted to the can by a thread, *p*, and packing *o*, for the purpose of receiving, supporting, and permitting the withdrawal of the stirrer from the can, as herein shown and described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

GEO. R. CASSIE.

Witnesses:
C. C. HERRICK,
LODE HOORNBECK.