Jan. 2, 1934. F. RIEBEL, JR., ET AL. 1,941,759

APPLICATOR

Filed Nov. 12, 1932

Fig. 1

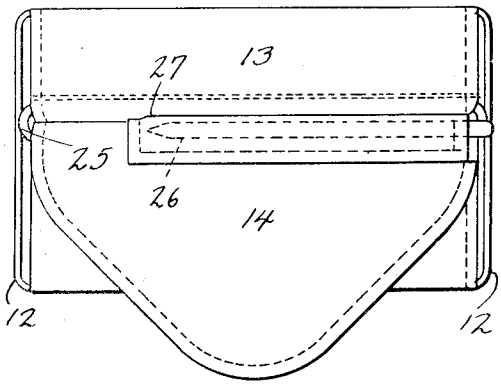


Fig. 2

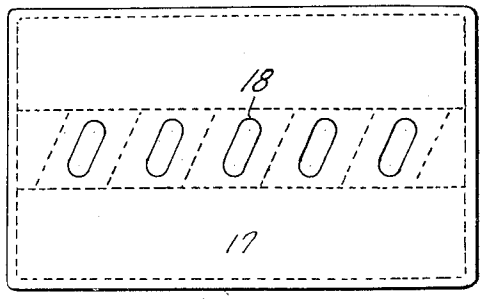


Fig. 3

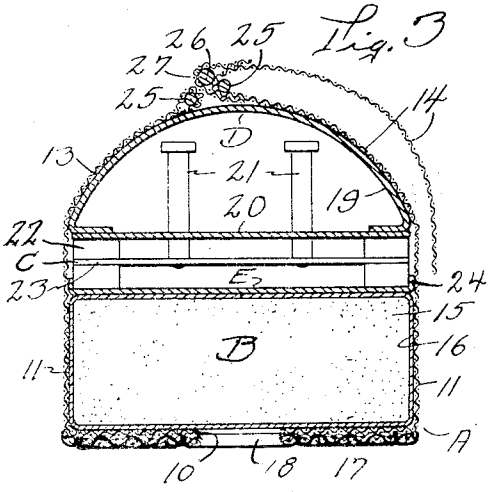


Fig. 4

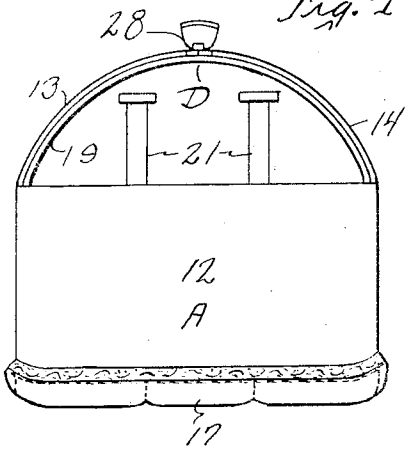


Fig. 5

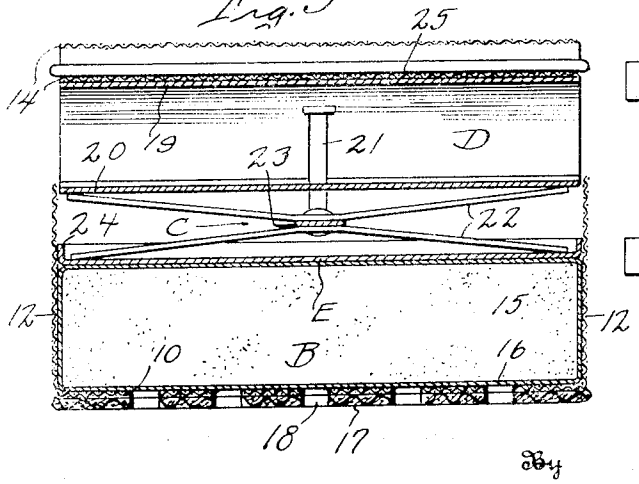
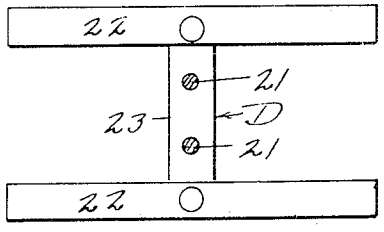


Fig. 6



Inventors

Frederick Riebel Jr.

Dewey M. Dow

Lynn R. Latta Attorneys

By

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UNITED STATES PATENT OFFICE

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APPLICATOR

Frederick Riebel, Jr., and Dewey M. Dow, Toledo, Ohio, assignors to Air-Way Electric Appliance Corporation, Toledo, Ohio, a corporation of Delaware

Application November 12, 1932
Serial No. 642,364

7 Claims. (Cl. 91—39)

This invention relates to devices of the type used for applying surfacing wax to automobiles, and has for its object to provide an applicator including a renewable cartridge of the surfacing material, and a flexible casing adapted to be held in the hand of an operator and adapted to apply continuous pressure to the cartridge for extrusion of the material, irrespective of the amount of material remaining in the cartridge.

With these and other objects in view our invention consists in the combination and construction and arrangement of the various parts thereof, whereby the objects contemplated are attained, as more fully set forth in the accompanying specifications, pointed out in our claims, and illustrated in the accompanying drawing, in which:

Fig. 1 is a plan view of the device.

Fig. 2 is an inverted plan view of the same.

Fig. 3 is a transverse sectional view of the same.

Fig. 4 is an end view of a slightly modified form of the same.

Fig. 5 is a longitudinal sectional view through the applicator, and

Fig. 6 is a plan view of the follower plate advancing spring.

We provide a casing "A" of a strong flexible material such as duck or canvas, and formed with a bottom wall 10, side walls 11, end walls 12, and securing flaps 13 and 14 forming continuations of the side walls 11 beyond the end walls 12.

The bottom wall 10, side walls 11, and end walls 12 form an open top receptacle adapted to snugly receive the renewable cartridge "B" comprising a block of surfacing material 15 enclosed in a tough, flexible, liquid tight container 16 preferably of the material known commercially under the trade mark "Cellophane".

The bottom wall 10 is faced with a distributor pad 17 of heavy felt or the like, and with an opening or series of openings 18 through which the surfacing material is extruded. The flexible container 16 is adapted to be pierced in registry with the openings 18 after the cartridge has been installed.

The applicator is used by holding it in the hand and rubbing the distributing face 17 over any surface to be treated. The device is particularly intended for use on curved surfaces such as automobile bodies, to which the flexible distributing face of the applicator will conform.

The present invention provides means for maintaining the casing constantly taut around the cartridge "B" irrespective of the size of the latter. It also provides such means in an arrangement wherein the cartridge may be easily removed or replaced.

The distending means comprises a head member "D", including a curved wall 19 which is shaped to fit the palm of the hand and adapted to engage beneath the flaps 13, 14.

The head D is hollow and includes an integral base plate 20, in which are slidably mounted the posts 21 of an expander "C". The latter comprises two pairs of opposed leaf springs 22, secured at their central region to a cross bar 23, and bowed away from each other to form two X shaped members, one at either end of the bar 23. The posts 21 are secured in the bar 23.

The expander "C" engages between the head "D" and a follower plate "E", engaged against the top of the cartridge "D". Flanges 24 prevent lateral displacement of the expander relative to the follower plate. Friction of the follower plate against the cartridge will resist slippage of the follower plate, and thus the applicator tends to retain a strictly upright shape.

The flaps 13, 14 are secured around the head "D" by means of a loop 25 secured in the longitudinal edge of the flap 13, and a securing pin 26 received in a pocket 27 in the flap 14. With the pin removed from the pocket 27, the latter may pass freely through the loop 25. With the pin 26 in place, the pocket 27 cannot pass through the loop 25, and the flaps 13, 14 will thus be secured together when distending pressure is applied by the head "D".

An advantage of this type of securing means is the facility with which the expander may be placed under compression by pulling the flap 14 through the loop 25.

Fig. 4 shows a slide fastener 28 joining the flaps 13, 14.

As the material is extruded from the cartridge "B", the expander "C", which will be compressed flat when the cartridge is new, will gradually expand, pushing the follower plate and head "D" apart and maintaining the casing taut. Thus the applicator will contantly remain the same size, and will retain sufficient rigidity so that it may be easily manipulated.

We claim as our invention:

1. In a surfacing material applicator, a renewable cartridge of the material comprising a flexible container in which the material is enclosed, a flexible open top casing receiving said cartridge and having a perforated distributing face, opposed side walls of said casing being extended to form flaps, means for detachably securing the flaps together, and resiliently expansible distending

means compressed between said flaps and the cartridge.

2. In a surfacing material applicator for use on curved surfaces, a renewable cartridge of the material comprising a flexible container in which the material is enclosed, an open top casing of flexible material receiving said cartridge, and having an extruding opening in a flexible wall that is conformable to a curved surface, opposed walls of the casing being extending to form flaps, means for detachably securing said flaps together, and resiliently expansible distending means compressed between said flaps and the cartridge.

3. In a surfacing material applicator, a flexible casing including opposed walls extended to form flaps, a loop secured in the edge of one flap, adapted to receive the other flap, a pocket secured to the other flap, parallel to said loop, and means receivable in said pocket to distend the same for engaging the loop.

4. In a surfacing material applicator, a flexible casing, a renewable cartridge of the material received in said casing, said casing having an extrusion opening and a closable mouth, and resiliently expansible distending means compressed between the region of the casing adjoining said mouth, and the cartridge, both said cartridge and distending means being removable through said mouth.

5. In a surfacing material applicator, a flexible casing, a renewable cartridge of the material received in said casing, said casing having an extrusion opening and a closable mouth, and resiliently expansible distending means compressed between the region of the casing adjoining said mouth, and the cartridge, both said cartridge and distending means being removable through said mouth, said distending means comprising a head and a resilient expander slidably mounted in the head and interposed between the head and the cartridge.

6. In a surfacing material applicator, a flexible casing, a renewable cartridge of the material received in said casing, said casing having an extrusion opening and a closable mouth, and resiliently expansible distending means compressed between the region of the casing adjoining said mouth, and the cartridge, both said cartridge and distending means being removable through said mouth, said distending means comprising a head, a follower plate engaging the cartridge, and a resilient expander carried by the head and engaging the follower plate.

7. In a surfacing material applicator, a flexible casing, a renewable cartridge of the material received in said casing, said casing having an extrusion opening and a closable mouth, and resiliently expansible distending means compressed between the region of the casing adjoining said mouth, and the cartridge, both said cartridge and distending means being removable through said mouth, said distending means comprising a head, a marginally flanged follower plate engaging the cartridge, and a resilient expander carried by the head and including bowed spring leaves engaged against said plate and retained against lateral displacement by said flange.

FREDERICK RIEBEL, JR.
DEWEY M. DOW.