

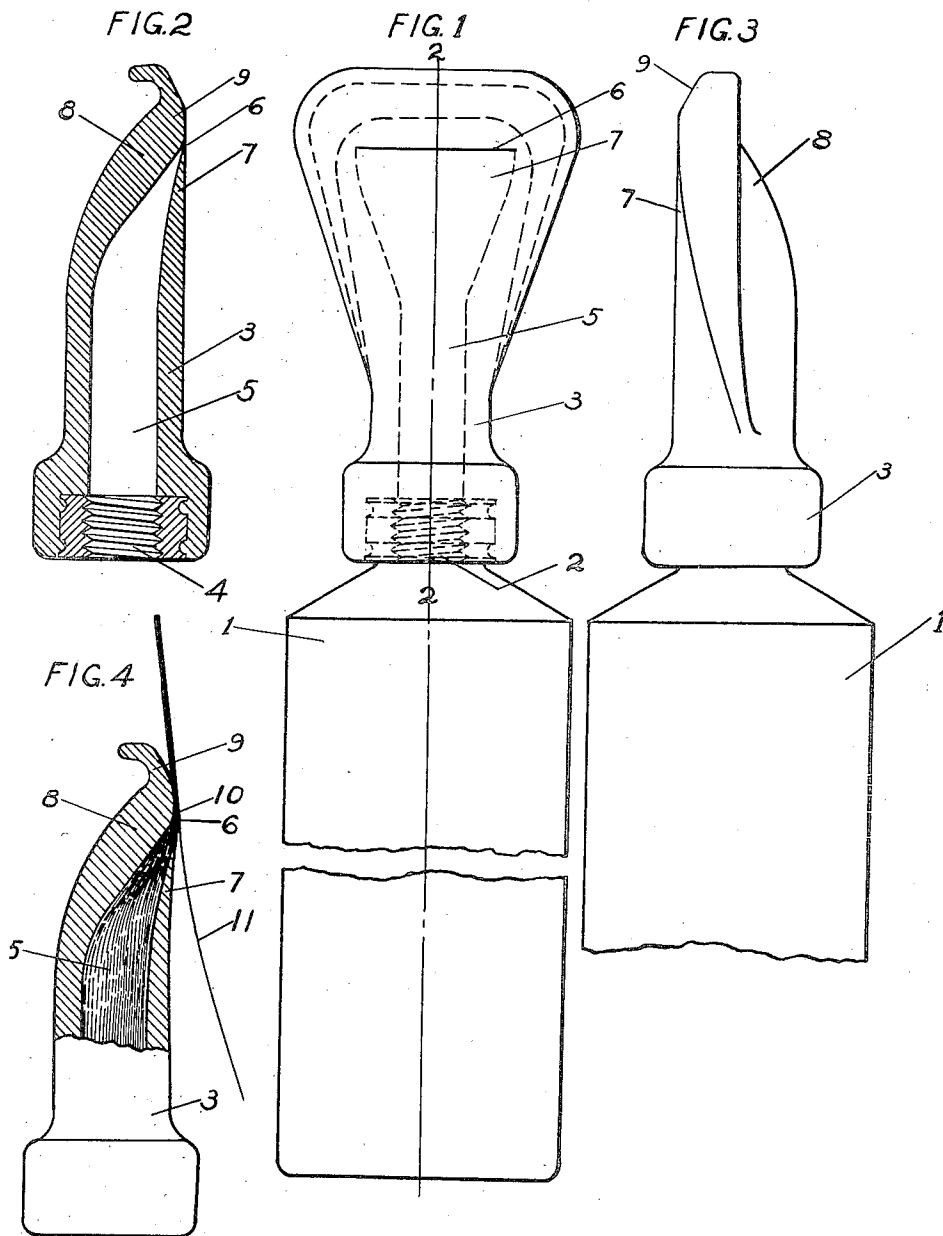
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DISPENSING DEVICE

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DISPENSING DEVICE

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5 Claims. (Cl. 91—67.5)

The present invention is designed to extrude material, such as shaving cream, salves and similar materials and spread the same evenly over a receiving surface. The device is preferably such as to close and seal the discharge opening at the completion of the desired extruding operation. In carrying out the invention with the preferred form a collapsible receptacle is provided with a nipple having an extruding cross slit which opens in response to pressure from the receptacle and permits the extrusion of a ribbon of material which ribbon is spread with a desired thickness upon the surface. Features and details of the invention will appear from the specification and claims.

A preferred embodiment of the invention is illustrated in the accompanying drawing as follows:—

Fig. 1 shows a top elevation of the device.

Fig. 2 a section of the nipple on the line 2—2 in Fig. 1.

Fig. 3 a side elevation of the shaft.

Fig. 4 a section similar to Fig. 2, but showing the nipple extruding and spreading material.

1 marks the collapsible tube, or receptacle. This is provided with a discharge opening which has its outer wall preferably screw-threaded, as shown in dotted lines at 2.

A nipple 3 formed of yielding material, such as rubber, is provided with an opening 4 preferably screw-threaded so as to receive the screw-threaded end of the tube. It is provided with a passage 5 which leads from the discharge opening of the receptacle and terminates at a slit 6. A lip 7 back of the slit is formed with a comparatively thin wall which readily yields under pressure of material to force the lip 7 at the slit to an open position exposing an elongated discharge opening capable of extruding the material in ribbon form. The wall 8 opposite the lip 7 is comparatively thick and consequently comparatively rigid so that the pressure from the material results in a more definite yielding of the lip 7.

A spreading lip 9 is arranged between the slit 6 and the end of the nipple. The spreading lip provides a surface crosswise along the discharge from the opening at the lip and is slightly offset back from the face of the lip 7 to provide for a ribbon of material between the spreading lip and the surface on which the material is applied. This space may be slightly changed by changing the angle at which the nipple is held relatively to the surface of application. An approximate showing of the arrangement of parts and disposition of material is indicated in Fig. 4 where

the material 10 is shown as being applied to a surface 11.

As soon as pressure is relieved from the receptacle the lip gradually returns to closed position so as to seal the tube. Thus a sanitary and convenient manner of spreading such materials as shaving creams, salves and the like is provided in an economical form.

What I claim as new is:—

1. A dispensing device comprising a collapsing receptacle adapted to exert discharge pressure on its contents and having a discharge opening and a discharge nipple on the receptacle and leading from the opening having a cross slit opening on one side face of the nipple and spaced from the end of the nipple, said slit having a closing lip at the back of the slit opening under pressure of material in the nipple communicated from the collapsing of the receptacle and a spreading lip having a substantially flat spreading surface between the slit and the outer end of the nipple.

2. A dispensing device comprising a collapsing receptacle adapted to exert discharge pressure on its contents and having a discharge opening, a discharge nipple on the receptacle and leading from the opening having a cross slit opening on one side face of the nipple and spaced from the end of the nipple, said slit having a closing lip at the back of the slit opening under pressure of material in the nipple communicated from the collapsing of the receptacle, and a spreading lip extending laterally along the slit between the slit and the outer end of the nipple.

3. A dispensing device comprising a collapsing receptacle adapted to exert discharge pressure on its contents and having a discharge opening, a discharge nipple on the receptacle and leading from the opening having a cross slit opening on one side face of the nipple and spaced from the end of the nipple, said slit having a closing lip at the back of the slit opening under pressure of material in the nipple communicated from the collapsing of the receptacle, and a spreading lip extending laterally along the slit between the slit and the outer end of the nipple, the spreading lip being slightly off-set back from the closing lip when the latter is open.

4. A dispensing device comprising a collapsing receptacle adapted to exert discharge pressure on its contents and having a discharge opening, and a discharge nipple on the receptacle and leading from the opening having a cross slit opening on one side face of the nipple and spaced from the end of the nipple, said slit having a

closing lip at the back of the slit opening under pressure of material in the nipple communicated from the collapsing of the receptacle and a spreading lip having a substantially flat spreading surface between the slit and the outer end of the nipple, said closing lip being more yielding comparatively than the opposing wall of the nipple and a spreading lip between the slit and the outer end of the nipple.

10 5. A dispensing device comprising a collapsing receptacle adapted to exert discharge pressure on its contents and having a discharge opening and a discharge nipple on the receptacle and

leading from the opening having a cross slit opening on one side face of the nipple and spaced from the end of the nipple, said slit having a closing lip at the back of the slit opening under pressure of material in the nipple communicated from the collapsing of the receptacle, and a spreading lip having a substantially flat spreading surface between the slit and the outer end of the nipple, said closing lip being thinner than the opposing wall of the nipple and a spreading lip between the slit and the outer end of the nipple.

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