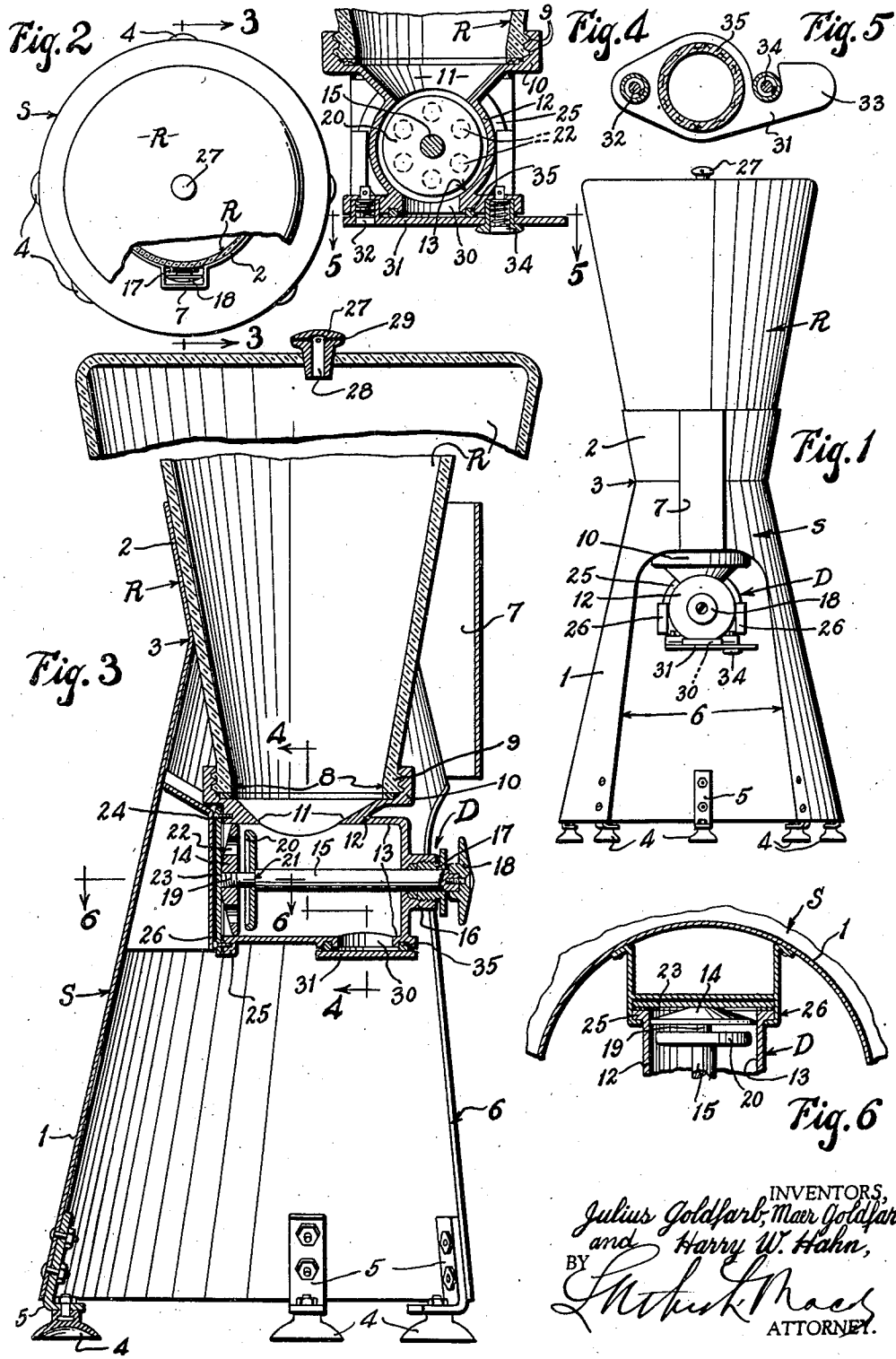
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DISPENSER FOR MAYONNAISE AND LIKE MATERIALS

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DISPENSER FOR MAYONNAISE AND LIKE MATERIALS

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Our invention relates to and has for an object the provision of an improved dispenser for mayonnaise, batter and other materials of like consistency and includes a suitable standard of pleasing design arranged for detachably supporting a container for the materials and a dispensing unit detachably associated with the container and operable for dispensing measured quantities of material at each operation, all of the parts being of sanitary character and readily detachable for the purpose of cleaning.

Other and more detailed objects of invention will appear as the description progresses.

We have shown a preferred form of dispenser in the accompanying drawing, subject to modification, within the scope of the appended claims, without departing from the spirit thereof. In said drawing:

Fig. 1 is a front elevation of the assembled dispensing unit;

Fig. 2 is a top plan view of the same;

Fig. 3 is a sectional view on line 3—3 of Fig. 2;

Fig. 4 is a transverse section of the dispenser proper on line 4—4 of Fig. 3;

Fig. 5 is a section of the dispenser outlet and closure therefor on line 5—5 of Fig. 4; and

Fig. 6 is a fragmentary sectional plan on line 6—6 of Fig. 3.

Briefly described the apparatus embodies a substantially cylindrical standard S which is open at the top to receive a receptacle R of glass or other material, and a dispenser D removably attached to the open and inverted end of the receptacle, as illustrated in Fig. 3.

Standard S is formed of sheet metal with a tapered skirt 1 at the bottom which has its major diameter at the bottom and its minor diameter at a junction point 3 with a reversely tapered upper neck 2. The lower margin of the skirt 1 is provided with a plurality of rubber vacuum cups 4 attached as by means of brackets 5 to the skirt and adapted to frictionally engage a supporting surface so as to prevent the displacement or movement of the dispenser unit from a selected position.

The front of the skirt 1 has an enlarged opening 6 which extends from the bottom to a point above the dispenser D so as to render the dispenser easily accessible from the front of the apparatus. Continuing upwardly from a point adjacent the upper extremity of opening 6 to the upper margin of neck 2 we provide a channel 7 which is open at its top and bottom for a purpose to be hereinafter described.

It will be noted that a substantially conical receptacle R is provided which is entirely open at its lower and smaller end 8 and said receptacle is adapted to be supported on the standard S in inverted position, as shown in Fig. 3, so that the material contained thereby will readily flow downwardly into the dispensing unit D. To this end, also, the lower end of said receptacle has an externally threaded head, or rim 9 which is adapted to be secured to an internally threaded flange 10 surrounding an inlet 11 and formed integral with the body 12 of unit D. Thus, the unit D may be attached to the receptacle R while the receptacle is in upright position and prior to inverting the same for attachment to standard S.

Dispenser D has a horizontally disposed cylinder 13 in which a piston, or plunger 14 is manually slidable by means of a rod 15 which is extended at the front end of the cylinder through a boss 16 in which a packing gland 17 is adjustably held, and the end of said rod has an operating button 18 attached thereto for operating said piston, at will.

It will be noted that the inner end of rod 15 is reduced at 19 and is threaded or otherwise secured to piston 14, and a valve disc 20 is slightly movable on said rod between said piston and a shoulder 21 for regulating and effecting the opening and closing of a plurality of ports 22 in the piston. The inner end of cylinder 13 is closed by means of a head 23 which may be detachably held thereon as by means of screws 24. The body 12 of unit D has an inner annular flange 25 which may be of the same diameter as head 23 (see Fig. 3), and a guide 26 is permanently attached to the rear and inner portion of the standard skirt 1, as shown in Fig. 6, for the purpose of engaging said head and said flange and thereby holding the unit D and receptacle R against movement when properly positioned on the standard S.

The channelled guide 26 is vertically disposed and open at its top and bottom so that as the unit D is lowered into the standard S the head 23 and flange 25 will engage and move downwardly into the guide and when finally seated will be prevented from lateral movement in the standard.

It should be noted, however, that the guide 26 does not support the dispenser D, that it merely resists rotation of the container-dispenser unit and also prevents displacement thereof while the dispenser is being operated. The weight of the unit is borne solely by the upper end of the stand at the neck 2.

The channel 7 at the front of the standard

serves to guide the extended operating button 18 and boss 16 as the unit D is being moved into operative position. Thus, the receptacle R rests upon the upper portion 2 of the standard and is held at a point below said portion so that it may not move when once positioned for use. A plug 27 is provided on the actual bottom but as shown and used on the upper portion of the receptacle for admitting air to the interior of the receptacle as the material is withdrawn therefrom. Said plug has a central passage 28 closed at its upper end and radial passages 29 communicating with said central passage and open to the atmosphere so as not to admit dirt but arranged to freely admit air.

An outlet 30 is provided on dispenser body 12 at the bottom and near the front and is normally closed by means of a flat plate 31 which is hinged to the body at 32 while its free end 33 is adapted to be swung into and from closed position and locked by means of a suitable friction device 34, a gasket 35 being provided on the outlet, as shown in Fig. 3, for preventing leakage when the plate is in closed position.

In operation, the material to be dispensed is placed in receptacle R, the dispenser D is attached thereto and the assembled dispenser is then inverted and positioned on the standard S, as shown in Fig. 3, which causes the material to readily flow downwardly until the cylinder 13 is filled, the piston at such time being at the rear extremity of its stroke. When a suitable receptacle is placed below the outlet 30 the plate closure 31 may be swung manually into open position and the piston 14 pulled forwardly in cylinder 13 by means of button 18, thereby forcing all of the material in said cylinder outwardly through outlet 30 into the receiving receptacle. The movement of piston 14 forwardly, as described, forces disc valve 20 into position adjacent with the piston and closes ports 22 against passage of the material therethrough.

When a dispensing operation is completed the piston is moved rearwardly in its cylinder to its fullest extent, thereby opening ports 22 and permitting the evacuation of that portion of the cylinder at the rear of the piston of any remaining material and preparing the dispenser for an ensuing operation.

It should be noted that the removable dispenser-receptacle unit is wholly supported by means located in entirety above the plane of the lower side of the dispenser; or in other words, above the dispensing outlet whereby the entire area beneath said outlet within the hollow standard will be unobstructed and subject to a more convenient use than where a support is provided beneath said dispenser.

What we claim as our invention and desire to secure by Letters Patent, is:

1. A dispenser for wet materials comprising a substantially cylindrical stand which is open at its upper end and provided in the front with an opening terminating short of said upper end, an inverted receptacle for said material being extended into said stand through said upper end, a dispensing unit supported by said receptacle and having one end extended through said front opening, projecting portions on the other end of said unit and guide means carried by said stand above the plane of the lower side of said unit and cooperating with said projecting portions to maintain the unit in operative position.

2. A dispenser for wet materials comprising a substantially frustro-conical stand which is open at its upper end and provided in the front with an opening terminating below said upper end, a substantially frustro-conical inverted container extended into said stand through said upper end, a dispensing unit supported by the lower end of said container, and operating means for said unit projecting from one end thereof into said front opening, projecting portions at the opposite end of said unit, and guide means fixed at the rear side of said stand above the plane of the lower side of said unit and engaging said projecting portions to prevent movement of said unit in a horizontal plane.

3. A dispenser for wet materials comprising a substantially frustro-conical stand which is open at its upper end and provided in the front with an opening terminating below said upper end, a substantially frustro-conical inverted container extended into said stand through said upper end, a dispensing unit supported by the lower end of said container, and operating means for said unit projecting from one end thereof into said front opening, projecting portions at the opposite end of said unit, and guide means fixed at the rear side of said stand above the plane of the lower side of said unit and engaging said projecting portions to prevent movement of said unit in a horizontal plane, said stand having the front thereof outwardly offset between said upper end and said front opening to define an upright channel permitting movement of said dispensing unit through said upper end of the stand.

4. A dispenser for wet materials comprising a substantially frustro-conical stand which is open at its upper end and provided in the front with an opening terminating below said upper end, a substantially frustro-conical inverted container extended into said stand through said upper end, a dispensing unit supported by the lower end of said container, and operating means for said unit projecting from one end thereof into said front opening, projecting portions at the opposite end of said unit, and guide means fixed at the rear side of said stand above the plane of the lower side of said unit and engaging said projecting portions to prevent movement of said unit in a horizontal plane, said projecting portions being vertically disposed, said guide means including vertical channels in which said projecting portions are engaged.

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