June 24, 1930. M. IOCHUM 1,767,457

RECEPTACLE FOR DISPENSING LIQUID, SEMILIQUID, OR PASTY MATERIALS

Filed Feb. 27, 1929

Fig. 4.

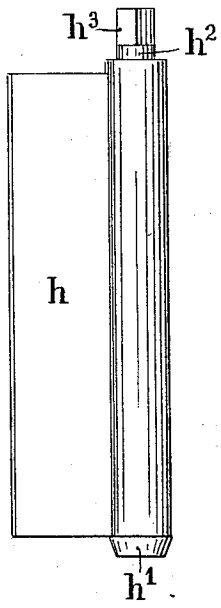


Fig. 1.

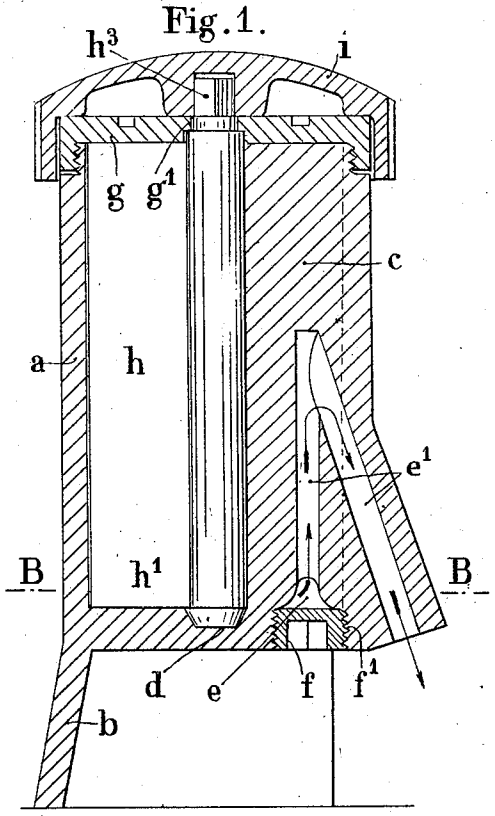


Fig. 3.

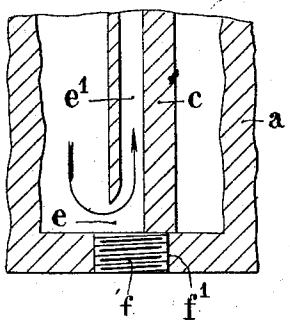


Fig. 2.

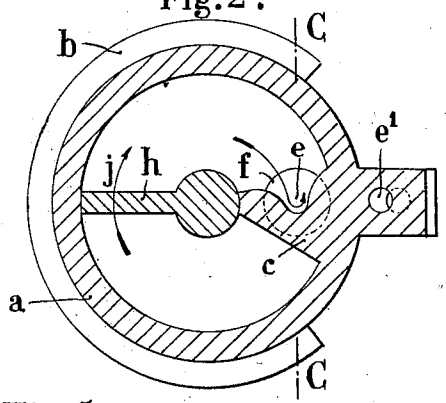
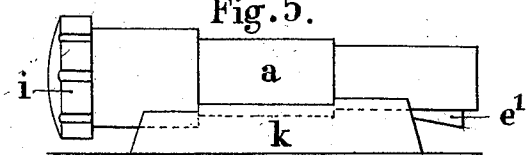


Fig. 5.



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UNITED STATES PATENT OFFICE

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RECEPTACLE FOR DISPENSING LIQUID, SEMILIQUID OR PASTY MATERIALS

Application filed February 27, 1929, Serial No. 343,059, and in France January 26, 1929.

The handling of certain materials employed in chemical and other reactions is often difficult by reason of the natural properties of these materials, especially in the case of a material, for example, an acid, which is corrosive; at the same time the handling may be dangerous to the operator whose whole attention is occupied with the measurement.

In other cases, on the contrary, the material employed for the reaction is volatile or affected by exterior agents such as air or moisture, and it is necessary to guard the portion of the material not required for the operation in hand, against the action of such exterior agents.

The object of this invention is to overcome these difficulties. The subject of the invention is a receptacle intended to distribute any liquid, semi-liquid or pasty material, this receptacle being hermetically closed in such a manner that it protects the contents and prevents contact of exterior agents therewith. The construction of the receptacle, and the simplicity of operation of the whole arrangement recommend it for various uses in chemistry and pharmacy as well as in cookery, for example, as a distributor of jam, cream or mustard.

The improved receptacle is characterized by the arrangement and combination of its constituent parts, that is to say:

1. A receptacle with a fixed vertical partly radial wall.

2. A vane mounted within the receptacle so as to be movable at its lower end about a central pivot whilst a central stem at its upper end passes through a lid and is furnished with an operating knob.

3. A distribution conduit preventing any loss of material.

With this very simple and practical apparatus, the material to be distributed, for example mustard, issues from the receptacle when pressed by the movable vane against the fixed wall on the same side thereof as the outlet orifice.

By way of example this invention is hereinafter described with reference to the accompanying drawing in which:

Figure 1 shows the apparatus referred to, in vertical section.

Figure 2 shows a horizontal section on the line B—B, Figure 1.

Figure 3 shows a partial vertical section on the line C—C, Figure 2.

Figure 4 is a detail view of the vane.

Figure 5 shows a modified form of the apparatus.

In the several figures like letters of reference indicate corresponding parts.

As shown in this drawing, Figures 1 to 4, the apparatus comprises a receptacle a supported on a hollow base b and within which there is provided a fixed vertical wall c partly radial formed in the manufacture, these parts being made of earthenware, porcelain, glass, white metal, ebonite, galalith or other suitable material.

This receptacle is furnished in the bottom thereof with a central recess d, an enlarged entrance e to a conduit e^1, and a plug f closing an orifice f^1 requisite for the manufacture of the receptacle and for its cleansing. The said receptacle is closed by a screw lid g having an opening g^1 in the center thereof. Within the receptacle there is a vane h provided with a pivot h^1 at its lower part stepped in the corresponding central recesses d.

A cylindrical stem h^2 at the upper part of this vane terminates in a squared portion h^3. The cylindrical stem h^2 passes through the lid g whilst the upper squared part h^3 of the stem is furnished with a knob i provided for rotating the vane h through small parts of a revolution in the direction of the arrow j. The upper edge of the vane h rubs against the underside of the lid g.

The outlet conduit being formed with ascending and descending parts prevents any loss of material. By turning the vane h in the direction of the arrow j by means of the knob i, the material in the receptacle, for example, mustard, compressed between this vane h and the fixed radial wall c, passes out through the conduit e, e^1 provided for its escape. When the movable vane h comes into contact with the fixed wall c the receptacle is entirely emptied.

To re-fill the receptacle, the knob *i*, the screw-lid *g* and the vane *h* are removed. Material is then poured into the receptacle to fill it up to a convenient height indicated by a reference mark. The vane *h* is replaced in contact with the wall *c* on the side thereof opposite to the outlet *e*, the lid *g* is screwed on, and finally the knob *i* is engaged on the squared part h^3 of the stem.

In the modification shown in Figure 5, the apparatus occupies a horizontal position supported on a foot *k*.

The forms, details, accessories, materials and dimensions of this apparatus can be varied. Thus, for example, the vane *h* can be provided with a flexible packing along its rubbing edges.

I claim:—

1. An apparatus for dispensing liquids, semi-liquids or pastes, comprising a receptacle with an outlet conduit extending from the interior of the receptacle towards the top and then down again towards the exterior by passing through a fixed vertical partition, and a movable vane centered in the bottom of the receptacle.

2. An apparatus for dispensing liquids, semi-liquids or pastes, comprising a receptacle with an outlet conduit extending from the interior of the receptacle towards the top and then down again towards the exterior by passing through a fixed vertical wall, a vertical movable vane centered in the bottom of the receptacle, and a screw lid receiving the stem of this vane.

3. An apparatus for dispensing liquids, semi-liquids or pastes, comprising a receptacle with an outlet conduit extending from the interior of the receptacle towards the top and then down again towards the exterior by passing through a fixed vertical partition, a vertical movable vane centered in the bottom of the receptacle, a screw lid receiving the stem of this vane, the said stem terminating in a square portion receiving an operating knob.

4. An apparatus for dispensing liquids, semi-liquids or pastes, comprising a receptacle with an outlet conduit extending from the interior of the receptacle towards the top and then down again towards the exterior by passing through a fixed vertical partition, a vertical movable vane centered in the bottom of the receptacle, a screw lid receiving the stem of this vane, a squared part provided on the said stem for receiving an operating knob, and a plug for the outlet or discharge conduit for the purpose of cleansing the same.

The foregoing specification of my "improvements in receptacles for dispensing liquid, semi-liquid or pasty materials" signed by me this 8th day of February, 1929.

MAURICE IOCHUM.