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MANUAL BEATER

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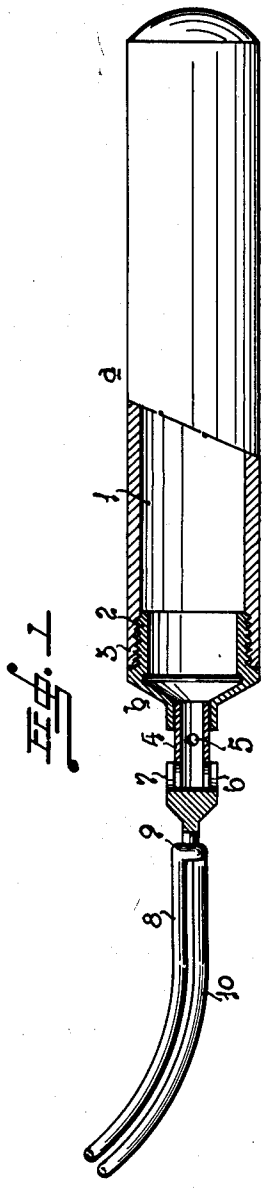


Fig. 1

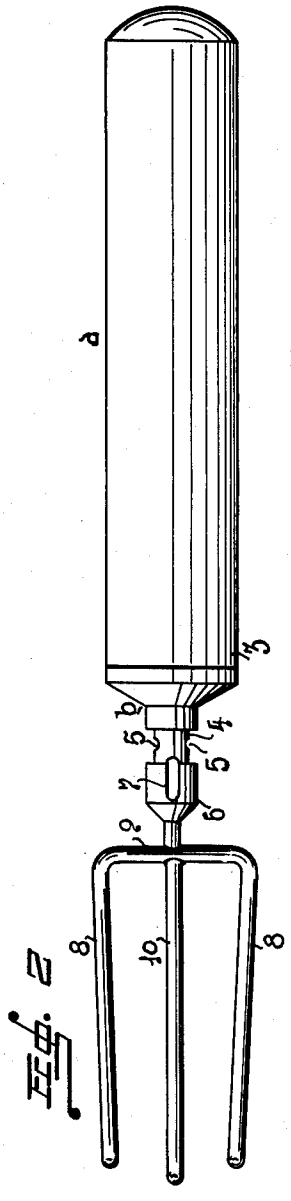


Fig. 2

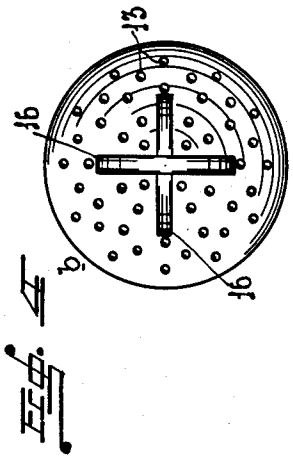


Fig. 4

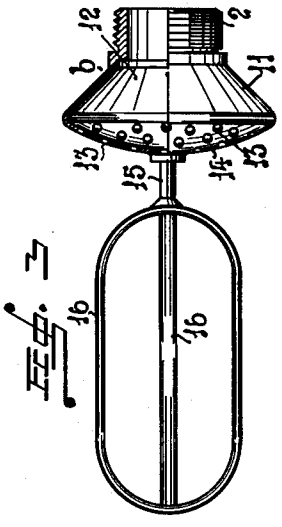


Fig. 3

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MANUAL BEATER

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8 Claims. (Cl. 259—144)

This invention refers to an arrangement based on a mechanical combination of elements, interconnected one to each other, which can be disassembled, forming an appliance fit for the making of manual batter from a combination of any kind of suitable food products, such as, among others, mayonnaise dressings, or of other products in which one of the components is oil, which arrangement is adapted also for the process of beating the components integrating mixtures for creams in general, such as, among others, "chantilly," in which one of the components is represented by sugar, without excluding therefrom pharmaceutical preparations, or products of small industries.

The arrangement to which this invention refers includes an extended hollow member which contains one of the components of the combination to be prepared, be it either oil, other liquids, or substances in pulverulent state, and an adjustable adapter interchangeably attached on the entrance of said hollow extended member, the hollow member together with said adapter forming the beater. The adapter has a zone on its extremity containing a passage for the gradual discharge of the contents of the hollow extended member, be this of viscous, liquid or pulverulent nature, all this according to the kind of combination to be elaborated.

The arrangement to which this case refers provides a technical solution which permits the performance with increased efficiency of the process of manually beating of components into a mixture, and in this arrangement of a manual beater the component parts of the beater are attachably and exchangeably arranged to each other, so as to allow their easy cleaning after completion of the beating process. Such an arrangement has not been contemplated till now by other known systems for manual beating purposes.

The novel features which are considered as characteristic for the invention are set forth in particular in the appended claims. The invention itself, however, both as to its construction and its method of operation, together with additional objects and advantages thereof, will be best understood from the following description of specific embodiments when read in connection with the accompanying drawings, in which:

Figure 1 is a lateral view, partly in cross section, of the manual beating device in its entirety;

Figure 2 is a front view of the device in accordance with the present invention illustrating further details of its construction;

Figure 3 is an elevational view partly in cross section of an adapter for the beater as provided in another preferred embodiment of the invention;

Figure 4 is a top plan view of the adapter illustrated in Fig. 3.

In these drawings the same numbers and characters of reference indicate equal or corresponding parts.

According with what is illustrated in the drawings annexed hereto, and referring in particular to Figs. 1 and 2, it can be seen that the device is formed by a hollow extended member *a*, which forms a recipient with its cavity **1**, which contains one of the components which form the combination to be beaten, be it oil, another liquid and/or substances in pulverulent state, whose hollow member *a* forms also the handle for the operating of the complete device described herein which is formed by said hollow member and an adapter *b*.

The adapter *b* presents the form of a "cupola" with a zone furnished with an external screw thread **2**, for combining it removably by screw connections **3** with one end zone of the same extended member *a*, in which zone is located the opening for the gradual loading and unloading of the content of cavity **1**, during operation of the beater.

The adapter *b* is provided with a tubular member **4** (Figs. 1 and 2) which constitutes a passage to conduct the contents of cavity **1** of the extended member **2** towards the corresponding discharge opening constituted by the orifices **5**, these orifices being located diametrically opposite to each other within the tubular member **4**. On the free end of the tubular member **4**, that is the end on which it is not connected with the extended hollow member *a*, there are positioned the slot **6** which fixedly connects with the little helm **7**, thus constituting a mounting which carries a beating member formed by a filiform metallic element which presents a bifurcate conformation in two lateral branches **8**, which start from the corners elbowed in a transversal branch **9**, and in the center whereof is included a complementary section **10**, as shown in Figs. 1 and 2, similarly shaped as both lateral sections **8**. These prongs **8** and **10** are convexly curved and the degree of curvature of prong **10** might differ from the curving of prongs **8**. Such an arrangement in which prong **10** lies in a curved plane different from the one defined by prongs **8** facilitates the efficient process of manually beating various components into a mixture.

In the embodiment of the beater shown in Figs. 3 and 4, the adapter *b* is provided with a hollow body **11**, the cavity **12** of which constitutes a container for the substances in pulverulent state, such as, for instance, granulated sugar, which is discharged through the perforated surface having various orifices **13**, located on the head of exterior convex conformation **14** of the mentioned hollow body **11**.

From the center of said head **14** of the adapter *b*, extends a longitudinal connecting member **15**, on the free end of which is fixed a beating member composed of two hoops **16**, of elliptoidal shape, inserted mutually between themselves, and oriented normally one in respect to the other, forming between both a little roller suitable for the beating of the components of the mixtures such as creams, among others, "chantilly," one of which compensates is granulated sugar which is discharged through the perforated surface of the head **14** of the hollow body **11** forming part of the adapter *b* and which substance, like granulated sugar, is contained in the extended member *a*, to which is removably attached the above named adapter, replacing the one described with reference to Figs. 1 and 2. Without further analysis, the foregoing will so fully reveal the gist of the present invention that others can by applying current knowledge readily adapt it for various applications without omitting features that, from the standpoint of prior art, fairly constitute essential characteristics of the generic or specific aspects of this invention and, therefore, such adaptations should and are intended to be comprehended within the meaning and range of equivalence of the following claims.

What is claimed as new and desired to be secured by Letters Patent is:

1. A hand beater device, comprising, in combination, an elongated hollow combined handle and container member; a beater member at one end of said elongated

hollow combined handle and container member; and a hollow combined connecting and dispensing member connecting said beater member to said combined handle and container member so that said beater member may be manipulated by said combined handle and container member, said combined connecting and dispensing member being formed with a least one opening in the wall thereof communicating through the hollow interior of said combined connecting and dispensing member with the hollow interior of said combined handle and container member for dispensing a substance contained in the latter member into material being beaten by said beater member.

2. A hand beater device, comprising, in combination, an elongated hollow combined handle and container member; a beater member at one end of said elongated hollow combined handle and container member; and a hollow combined connecting and dispensing member removably connecting said beater member to said combined handle and container member so that said beater member may be manipulated by said combined handle and container member, said combined connecting and dispensing member being formed with at least one opening in the wall thereof communicating through the hollow interior of said combined connecting and dispensing member with the hollow interior of said combined handle and container member for dispensing a substance contained in the latter member into material being beaten by said beater member.

3. A hand beater device, comprising, in combination, an elongated hollow combined handle and container member; a beater member at one end of said elongated hollow combined handle and container member; and a hollow combined connecting and dispensing member secured at one one to said beater member and threadably engaging at its other end said combined handle and container member, thereby connecting said beater member to said combined handle and container member so that said beater member may be manipulated by said combined handle and container member, said combined connecting and dispensing member being formed with at least one opening in the wall thereof communicating through the hollow interior of said combined connecting and dispensing member with the hollow interior of said combined handle and container member for dispensing a substance contained in the latter member into material being beaten by said beater member.

4. A hand beater device, comprising, in combination, an elongated hollow combined handle and container member; a beater member at one end of said elongated hollow combined handle and container member; and a tubular combined connecting and dispensing member secured at one end to said beaten member and threadably engaging at its other end said combined handle and container member, thereby connecting said beater member to said combined handle and container member so that said beater member may be manipulated by said combined handle and container member, said combined connecting and dispensing member being formed with oppositely facing apertures in the wall thereof communicating through the hollow interior of said combined connecting and dispensing member with the hollow interior of said combined handle and container member for dispensing a substance contained in the latter member into material being beaten by said beater member.

5. A hand beater device, comprising, in combination, an elongated hollow combined handle and container member; a beater member at one end of said elongated hollow combined handle and container member; and a hollow combined connecting and dispensing member connecting said beater member to said combined handle and container member so that said beater member may be manipulated by said combined handle and container member, said combined connecting and dispensing member having a perforated transverse wall portion facing said beater member, the perforations of said transverse wall portion communicating through the hollow interior of said combined connecting and dispensing member with the hollow interior of said combined handle and container member for dispensing a substance contained in the latter member into material being beaten by said beater member.

6. A hand beater device, comprising, in combination, a beater member; and an elongated hollow combined handle, container and dispensing member connected at one end to said beater member for manipulating the same, said combined handle, container and dispensing member having a perforated transverse wall portion facing said beater member, the perforations of said transverse wall portion communicating with the hollow interior of said combined handle, container and dispensing member, whereby a substance contained in the latter member may be dispensed into material being beaten by said beater member.

7. A hand beater device, comprising, in combination, an elongated hollow combined handle and container member; a fork-shaped beater member at one end of said elongated hollow combined handle and container member; and a tubular combined connecting and dispensing member secured at one end to said beater member and threadably engaging at its other end said combined handle and container member, thereby connecting said beater member to said combined handle and container member so that said beater member may be manipulated by said combined handle and container member, said combined connecting and dispensing member being formed with oppositely facing apertures in the wall thereof communicating through the hollow interior of said combined connecting and dispensing member with the hollow interior of said combined handle and container member for dispensing a substance contained in the latter member into material being beaten by said beater member.

8. A hand beater device, comprising, in combination, an elongated hollow combined handle and container member; a beater member at one end of said elongated hollow combined handle and container member having a plurality of hoop-shaped beating portions; and a hollow combined connecting and dispensing member secured on one side to said beater member and threadably engaging on its other side said combined handle and container member, thereby connecting said beater member to said combined handle and container member so that said beater member may be manipulated by said combined handle and container member, said combined connecting and dispensing member having a perforated convex transverse wall portion facing said beater member, the perforations of said convex transverse wall portion communicating through the hollow interior of said combined connecting and dispensing member with the hollow interior of said combined handle and container member for dispensing a substance contained in the latter member into material being beaten by said beater member.

References Cited in the file of this patent

UNITED STATES PATENTS

243,098 Becker et al. ---------- June 21, 1881

FOREIGN PATENTS

619,780 Germany ---------- Oct. 7, 1935