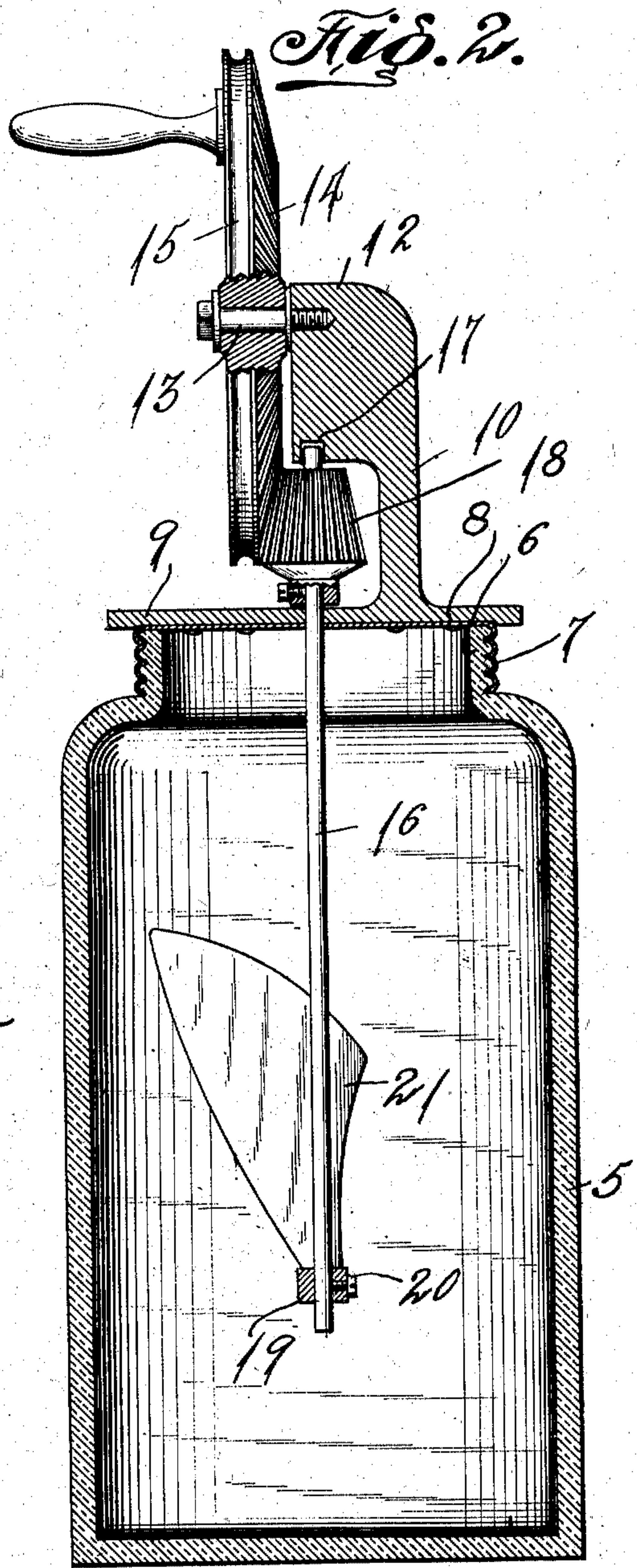
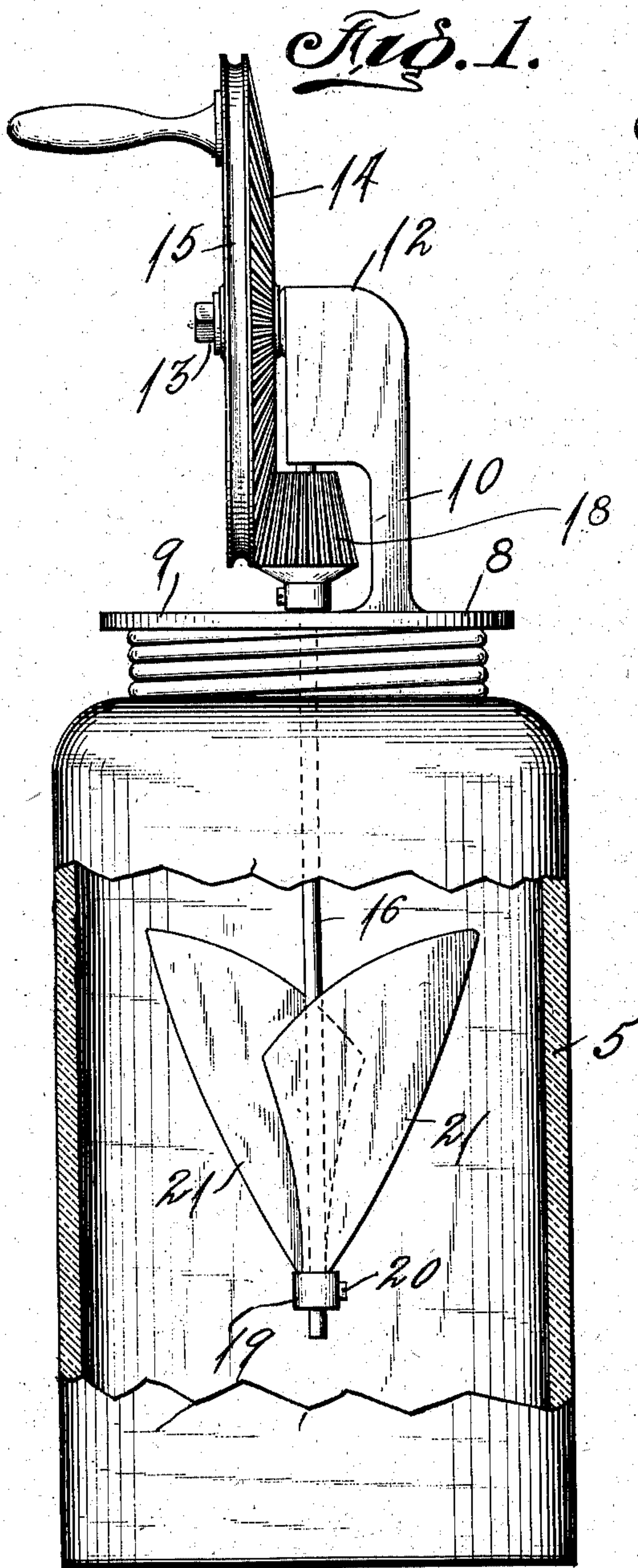


W. F. PEREZ.
CHURN.
APPLICATION FILED AUG. 23, 1909.

967,232.

Patented Aug. 16, 1910



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UNITED STATES PATENT OFFICE.

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CHURN.

967,232.

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To all whom it may concern:

Be it known that I, WALDO F. PEREZ, a citizen of the United States, residing at Tampa, in the county of Hillsboro, State of Florida, have invented certain new and useful Improvements in Churns; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The invention relates to churns.

The primary object of the invention is the provision of a churn in which the agitator blades are so disposed in the churn body so as to effect the proper agitation of the fluid contained therein to rapidly convert the fluid into butter.

Another object of the invention is the provision of a churn in which lacteal fluid may be converted into butter without requiring excessive manual labor for the operation of the churn.

A further object of the invention is the provision of a churn in which the agitator blades are capable of adjustment and that are so arranged within the churn body as to properly agitate the contents thereof for the making of butter with a minimum amount of labor and the least possible period of time.

A still further object of the invention is the provision of a churn which is simple in construction, readily and easily cleaned, thoroughly efficient in operation and inexpensive in the manufacture.

With these and other objects in view, the invention consists in the construction, combination, and arrangement of parts, as will be hereinafter more fully described, illustrated in the accompanying drawing, which disclose the preferred form of embodiment of the invention, to enable those skilled in the art to practice the same, and as pointed out in the claims hereunto appended.

In the drawings:—Figure 1 is a side elevation of a churn constructed in accordance with the invention. Fig. 2 is a vertical longitudinal sectional view thereof.

Similar reference characters indicate corresponding parts throughout the several views in the drawings.

Referring to the drawings, by numerals 5 designates a receptacle forming the churn body preferably constructed of glass although it may be of any other suitable mate-

rial having a contracted neck 6, forming a mouth, the said neck being externally threaded as at 7, for the mounting upon the neck of a detachable cover or lid 8, the latter supporting a base plate 9, having formed integral therewith a vertical standard 10, provided with an offset bearing 12, in which is detachably mounted a horizontal pin 13, forming the axis of a rotatable driving gear 14, the latter being formed at its periphery with an annular groove 15, for the reception of a belt (not shown).

Contained centrally in the base plate and the cover or lid are registering apertures through which is passed a rotatable shaft or rod 16, the latter having its upper end engaging a recess 17, formed in the offset bearing 12, and detachably connected to this shaft or rod is a beveled pinion 18, meshing with the driving gear 14, so that motion from the latter will be imparted to the shaft or rod for the purpose as will be hereinafter described.

Slidably mounted upon the shaft or rod 16, within the churn body 5, is a hub 19, the latter being held fast to said shaft or rod by means of a set screw 20, and vertically rising from the hub 19 are opposed outwardly diverging dasher blades 21, the free end portion of which being widened with respect to their opposite remaining portion and these blades gradually taper toward their points of juncture with said hub. The said blades have their free ends curved in opposite directions to each other.

It is of course to be understood that the peculiar arrangement and formation of the blade 21 is an important and salient feature in the invention for the reason that it imparts a proper agitation to the lacteal fluid in the making of butter.

What is claimed is:—

1. In a churn, a rotatable dasher shaft therein, and vertically arranged dasher blades connected with the shaft, at opposite sides thereof, whereby vertical centrifugal action will be had upon the contents at the center of the churn.

2. In a churn, a rotatable dasher shaft therein, vertically arranged dasher blades connected with the shaft, at opposite sides thereof, whereby vertical centrifugal action will be had upon the contents at the center of the churn, each blade tapering toward its inner end, the said blades being disposed to lie in overlapping relation to each other.

3. In a churn, a rotatable dasher shaft
therein, vertically arranged dasher blades
connected with the shaft, at opposite sides
thereof, whereby vertical centrifugal action
5 will be had upon the contents at the center
of the churn, each blade tapering toward its
inner end, the said blades being disposed to
lie in overlapping relation to each other,
and means permitting adjustment of the
10 blades longitudinally on the shaft.

4. In a churn dasher, a hub having verti-

cally disposed upwardly diverging blades
rising from the hub, in opposed relation to
each other whereby the blades will centrifu-
gally stir the fluid in a receiver. 15

In testimony whereof, I affix my signa-
ture, in presence of two witnesses.

WALDO F. PEREZ.

Witnesses:

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