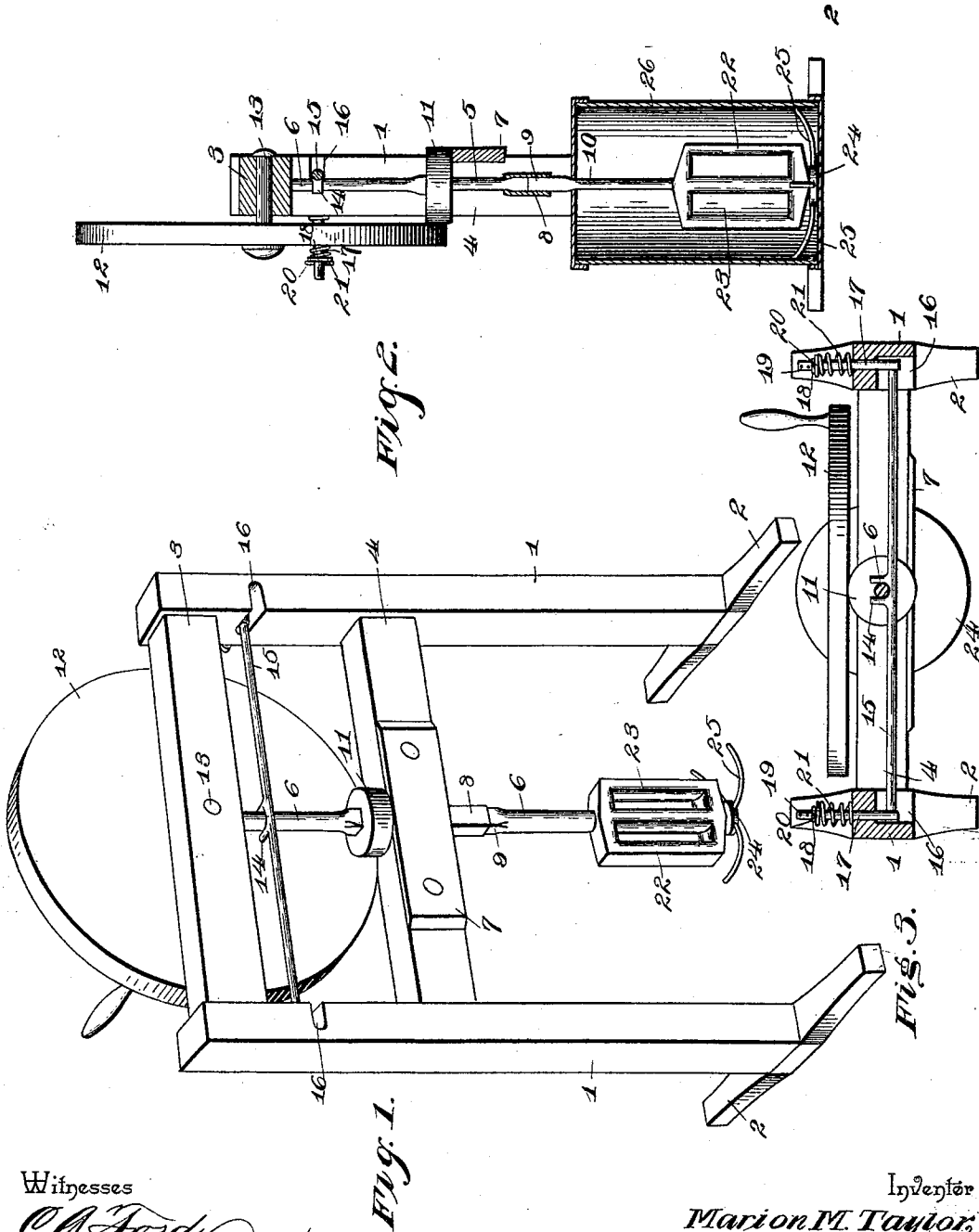


(No Model.)

M. M. TAYLOR.
CHURN POWER.

No. 513,156.

Patented Jan. 23, 1894.



Witnesses

Chas. Ford
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UNITED STATES PATENT OFFICE.

MARION M. TAYLOR, OF BROWNWOOD, TEXAS.

CHURN-POWER.

SPECIFICATION forming part of Letters Patent No. 513,156, dated January 23, 1894.

Application filed April 24, 1893. Serial No. 471,626. (No model.)

To all whom it may concern:

Be it known that I, MARION M. TAYLOR, a citizen of the United States, residing at Brownwood, in the county of Brown and State of Texas, have invented a new and useful Improvement in Churn-Powers, of which the following is a specification.

This invention relates to improvements in churn powers.

The object of the present invention is to improve the construction of churn power, and to provide one which may be readily employed in connection with any ordinary vessel serving as a churn body, and which will effect a rapid production of butter.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings and pointed out in the claims hereto appended.

In the drawings—Figure 1 is a perspective view of a churn constructed in accordance with this invention. Fig. 2 is a central vertical sectional view. Fig. 3 is a horizontal sectional view.

Like numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates uprights of a supporting frame, which has feet 2 at the lower ends of the uprights, and which has a top cross-bar 3 and a central cross-bar 4. The central cross-bar is provided with a vertical bearing 5 in which is journaled a dasher-shaft 6 retained in the bearing by a cleat 7 and having at its lower end a socket 8. The socket 8 receives the stem 9 of a dasher 10; and the dasher-shaft is provided above the central transverse bar 4 with a small friction wheel 11, which meshes with a vertically disposed master wheel 12 journaled on a stub-shaft 13 extending from the top transverse bar 3.

The gear-wheels 11 and 12 are friction wheels, and in order to maintain the proper contact between them the upper end of the dasher shaft is located in an adjustable bearing 14, which is adapted to force the small friction wheel into closer contact with the master wheel. The bearing 14 is secured to a rod 15 disposed transversely of the frame and having its ends arranged in recesses 16 thereof and provided with arms 17 which are

arranged in perforations, and which are adjustably secured to the frame by means of pins or keys 18 and perforations 19. On the outer ends of the arms are located washers 20 and disposed on the arms between the washers and the frame are spiral springs 21, which render the bearing yielding. The arms are provided at their inner ends with openings to receive the ends of the transverse rod which is resilient.

The dasher 10 is provided with vertical blades 22, and has longitudinal openings 23, and its bottom is journaled on a support 24, which is provided with radial resilient arms 25. The support is circular and has a central opening to receive the journal of the dasher; and the resilient radial arms extend to the sides of the churn body 26, and fit against the same and brace the bottom of the dasher in its position at the center of the bottom of the body. This means for supporting the bottom of the dasher enables an ordinary vessel to be employed as a churn body; and in vessels having mouths of less diameter than their bottoms, the radial resilient arms may be sprung through the mouths.

It will be readily apparent that the churn power is simple and comparatively inexpensive in construction, and is adapted to effect a rapid production of butter at the expenditure of a minimum amount of labor.

Changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

What I claim is—

1. In a churn power, the combination of a frame, a vertical dasher shaft journaled in the frame and carrying a friction wheel, a master wheel engaging the friction wheel, a horizontal rod disposed transversely of the frame and having its ends adjustably secured to the frame, and a bearing arranged on the rod and receiving the upper end of the dasher shaft, substantially as described.

2. In a churn power, the combination of a frame, a vertical dasher shaft journaled on the frame and having a friction wheel, a master wheel engaging the friction wheel, a horizontal rod provided intermediate of its ends with a bearing receiving the upper end of the dasher

shaft, arms mounted in the frame and secured
to the ends of the rod and provided with per-
forations, keys fitting in perforations and ad-
justably securing the arms to the frame, and
5 spiral springs disposed on the arms to pro-
vide a yielding bearing, substantially as de-
scribed.

In testimony that I claim the foregoing as
my own I have hereto affixed my signature in
the presence of two witnesses.

MARION M. TAYLOR.

Witnesses:

R. A. SMITH,
STUART HART.