R. CHASTEEN.

CHURN.

APPLICATION FILED FEB. 2, 1912.

1,031,524.

Patented July 2, 1912.

2 SHEETS—SHEET 1.

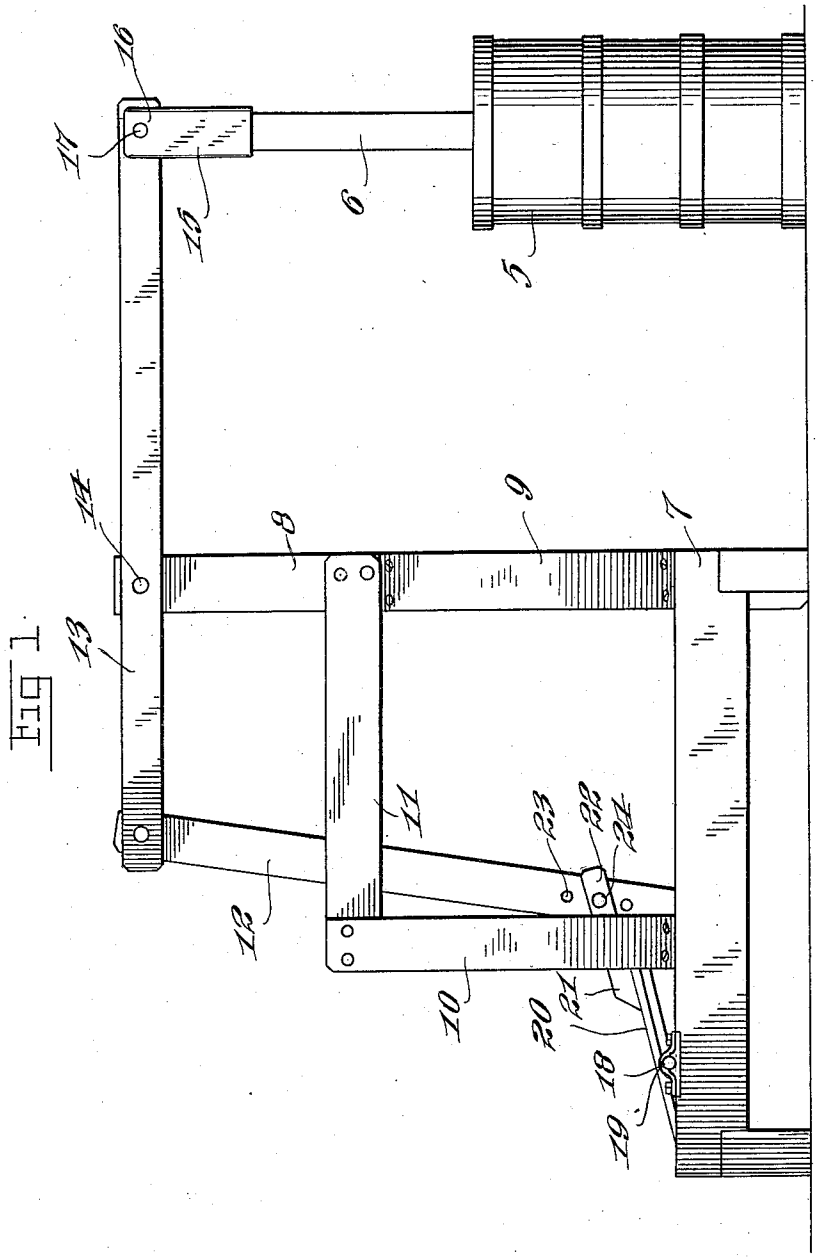

Fig. 1.

Inventor

Reauby Chasteen

Witnesses

W. H. Shafer

L. O. Parker

By Victor J. Evans

Attorney

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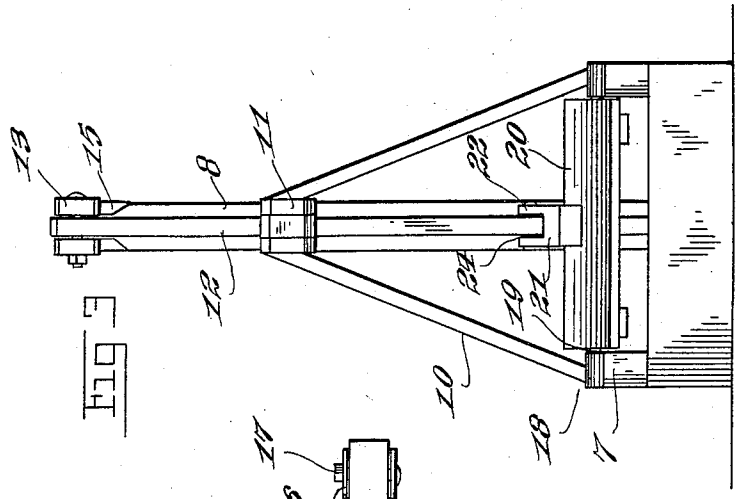

Fig 3.

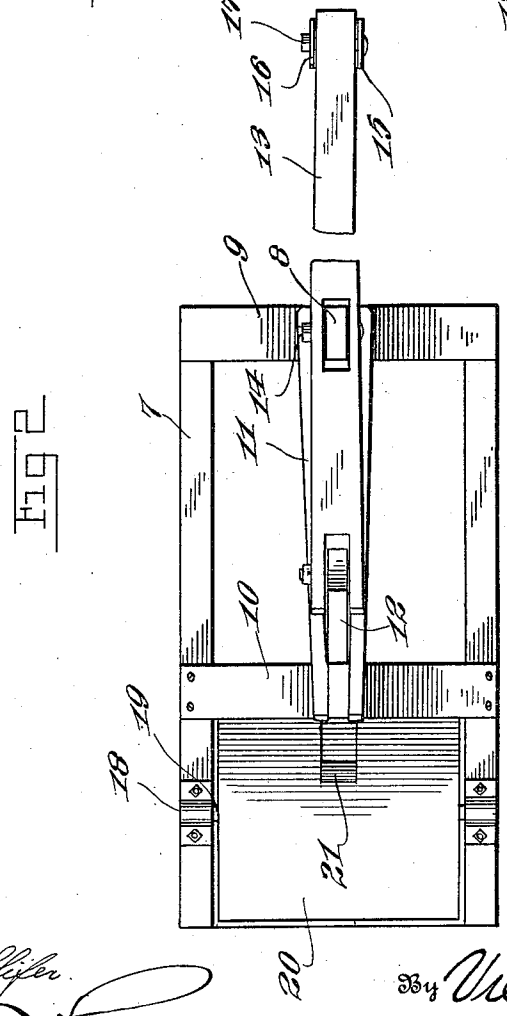

Fig 2.

Witnesses

W. H. Slifer.

F. O. Sanders.

Inventor

Reauby Chasteen

By Victor J. Evans

Attorney

UNITED STATES PATENT OFFICE.

REAUBY CHASTEEN, OF THORSBY, ALABAMA.

CHURN.

1,031,524. Specification of Letters Patent. Patented July 2, 1912.

Application filed February 2, 1912. Serial No. 675,052.

To all whom it may concern:

Be it known that I, REAUBY CHASTEEN, a citizen of the United States, residing at Thorsby, in the county of Chilton and State of Alabama, have invented new and useful Improvements in Churns, of which the following is a specification.

The invention relates to churns, and more particularly to the class of mechanism for operating vertically movable dasher churns.

The primary object of the invention is the provision of mechanism of this character in which the dasher in a churn body may be vertically reciprocated for effecting the churning of the contents of the churn, for the formation of butter.

Another object of the invention is the provision of mechanism of this character which is simple in construction, easily operated, and inexpensive in 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 drawings, and pointed out in the claim hereunto appended.

In the drawings: Figure 1 is a side elevation of a churn body, showing the operating mechanism connected therewith. Fig. 2 is a top plan view of the same. Fig. 3 is an end elevation.

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

Referring to the drawings by numerals, 5 designates the body of a churn of any ordinary well-known construction, and 6 the vertically movable dasher shaft, carrying the usual dasher (not shown), and adapted to be reciprocated within the churn body, and to this dasher shaft is adapted to be connected the operating mechanism, presently described.

The dasher shaft operating mechanism comprises a base frame 7, from the forward end of which rises a centrally disposed vertical standard or post 8, to which is connected upwardly converging braces 9, the same being also connected to the base frame, thereby materially strengthening the post. Spaced from the rear or opposite end of the base frame 7 and connected thereto are upwardly converging props 10, the same being connected to the rear end of a longitudinally slotted guide bar 11 disposed horizontally above the base frame, and also connected to the post 8 and working within the slot in the said guide bar 11 is an operating lever 12, connected to one end of a walking beam 13, the same mounted upon a pivot 14 which adjustably connects it to the post 8, the free end of the walking beam 13 carrying a socketed member or ferrule 15, in which is detachably connected the upper end of the dasher shaft 6 in any suitable manner. The ferrule 15 is formed with upturned alining ears 16, through which is passed a pivot pin 17, the same being also passed through the walking beam 13, thereby connecting the ferrule to the same.

Mounted upon the base frame 7, rearwardly of the props 10, are bearings 18, in which are journaled the ends of a rocking shaft 19, to which is fixed a foot treadle 20 formed with an extension 21 provided with a bifurcation 22 receiving the operating lever 12 which is provided with a series of apertures 23, in any one of which is adapted to detachably engage a pivot pin 24, the same being detachably mounted in the bifurcated end of the extension 21 on the foot treadle, it being seen that upon actuating the foot treadle 20, the walking beam 13 will be rocked upon the post 8, thereby actuating the dasher in the churn.

What is claimed is:

A churn operating mechanism comprising a substantially rectangular shaped base frame, having depending legs at its corners, a standard fixed to and rising centrally from one end of the frame, a rocking beam pivotally connected to the upper end of said standard, a socketed ferrule having spaced parallel ears at its closed end, a pivot passed through the ears and one end of the rocking beam for connecting the ferrule thereto whereby it may be detachably engaged with the reciprocatory dasher shaft of a churn, a rocking treadle journaled in the base frame near the opposite end and having an extension, a link pivoted to the rocking beam and adjustably connected to the extension of

the treadle, upwardly converging braces fixed to the sides of the base frame and rising above the same, a horizontal bar fixed to the vertical standard and the brace bars and having a slot loosely receiving the said link for preventing lateral displacement thereof during the working of the treadle.

In testimony whereof I affix my signature in presence of two witnesses.

REAUBY his × mark CHASTEEN.

Witnesses:
C. B. HANELL,
A. F. CHILDRESS.