

No. 765,252.

PATENTED JULY 19, 1904.

R. W. PARK & C. L. ARNWINE.

SHAKING CHURN.

APPLICATION FILED DEC. 12, 1903.

NO MODEL.

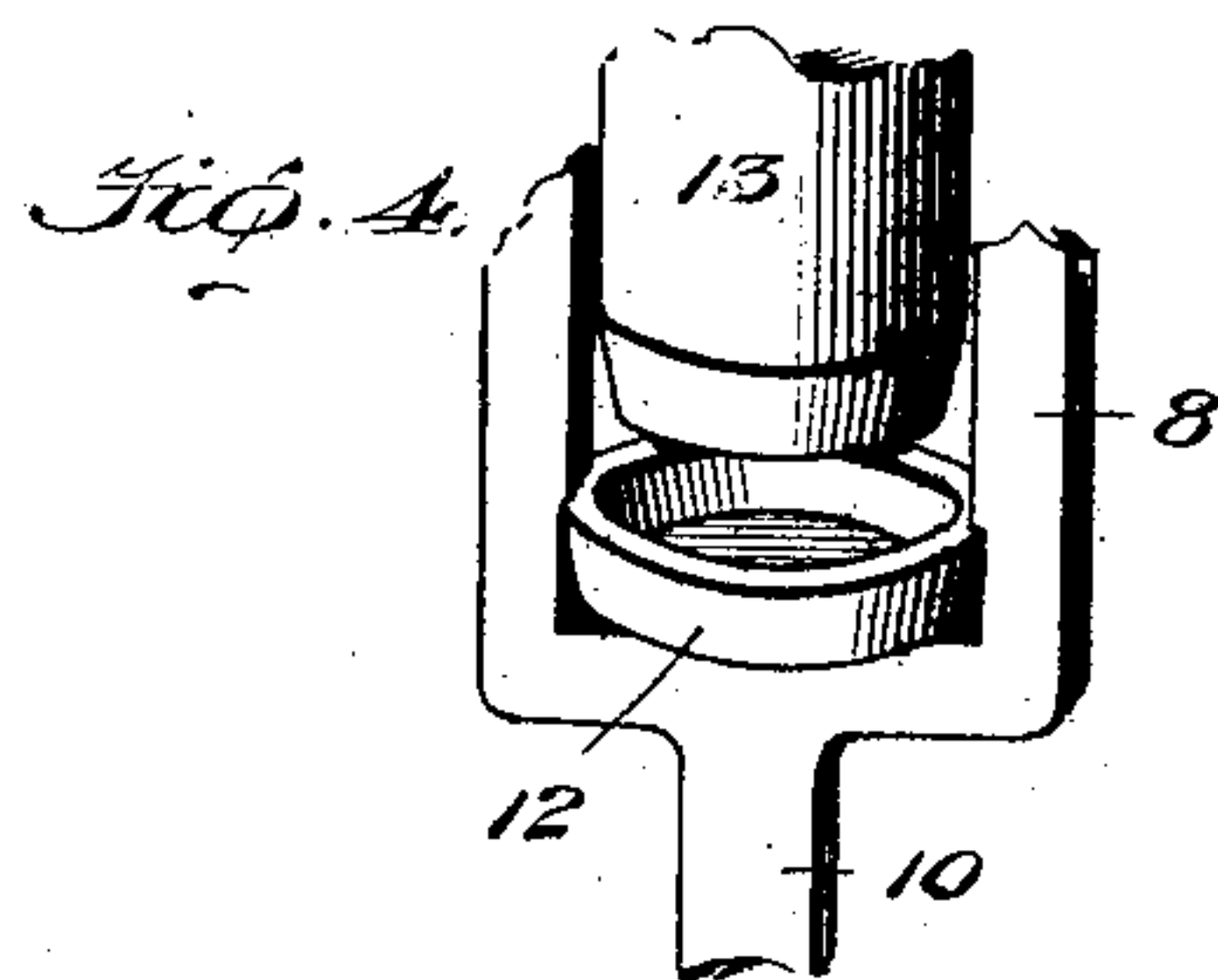
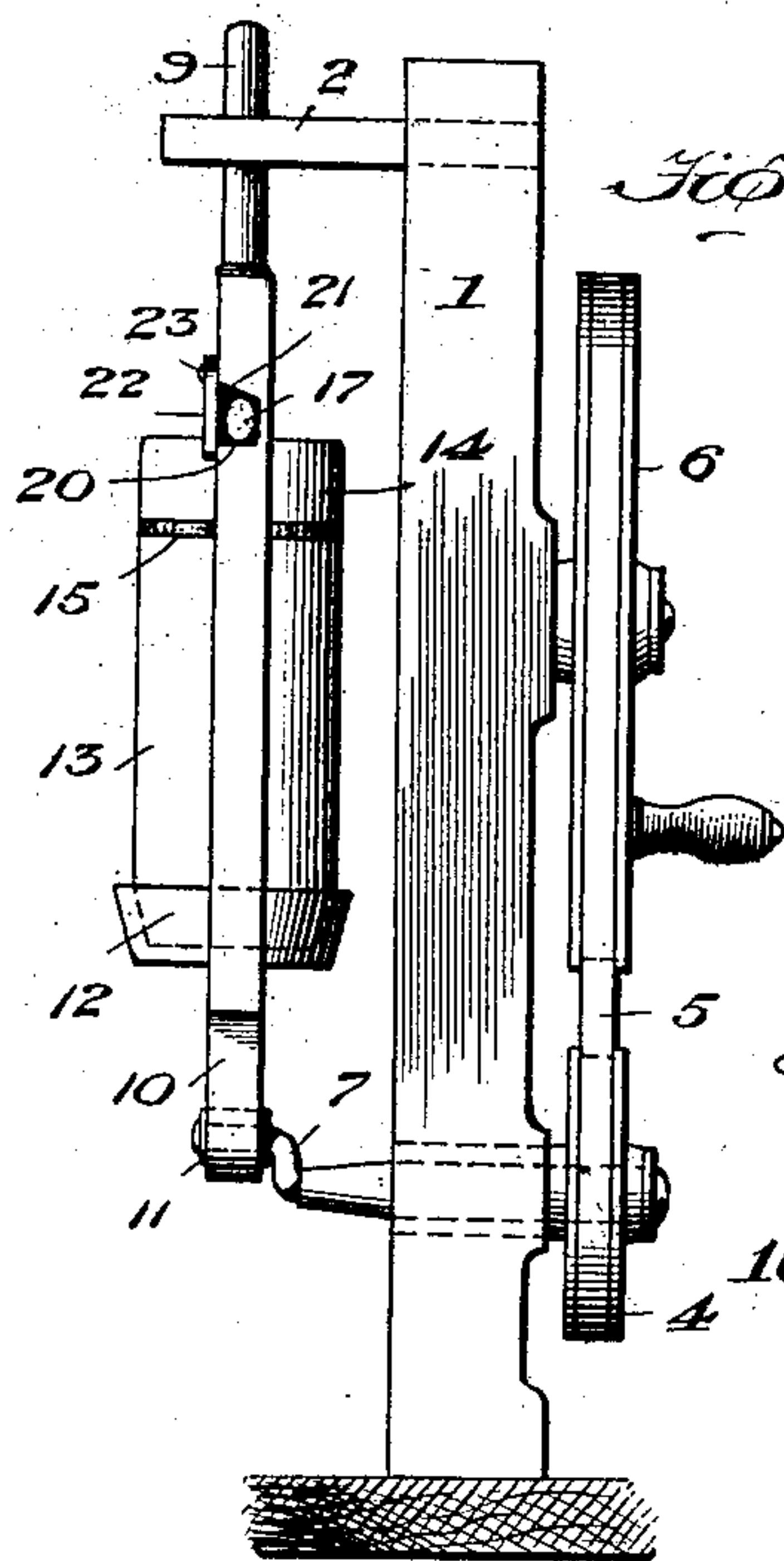
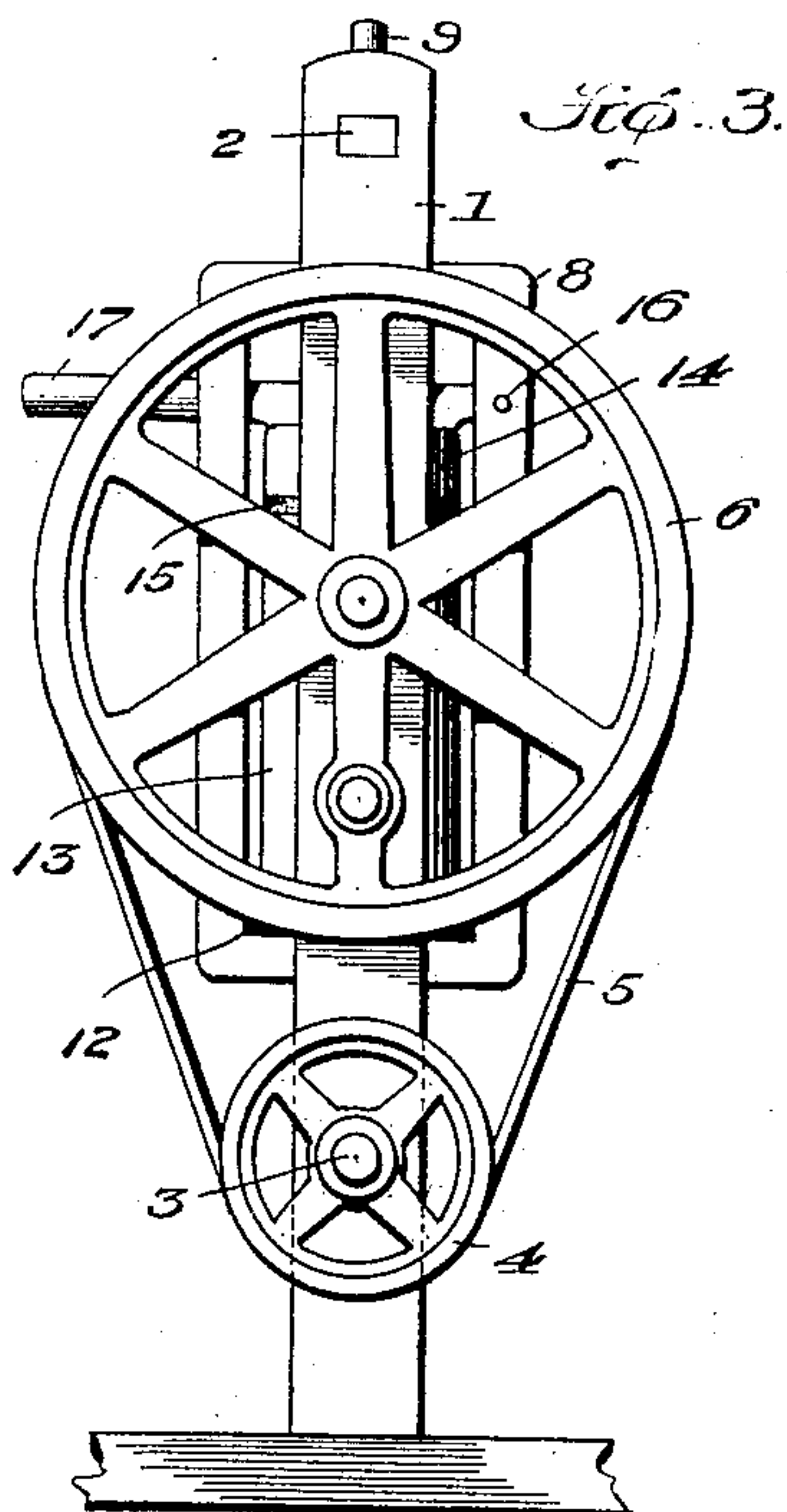
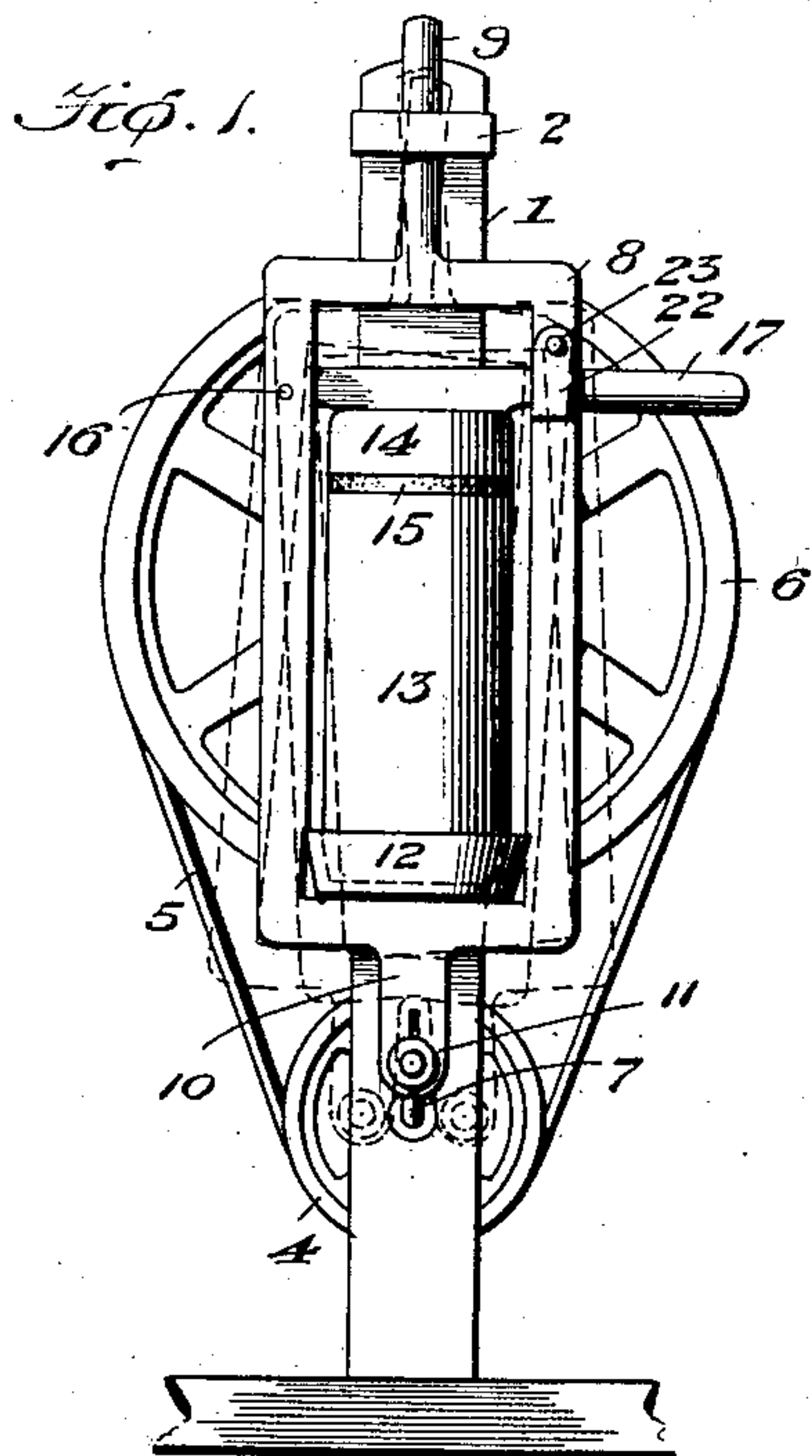
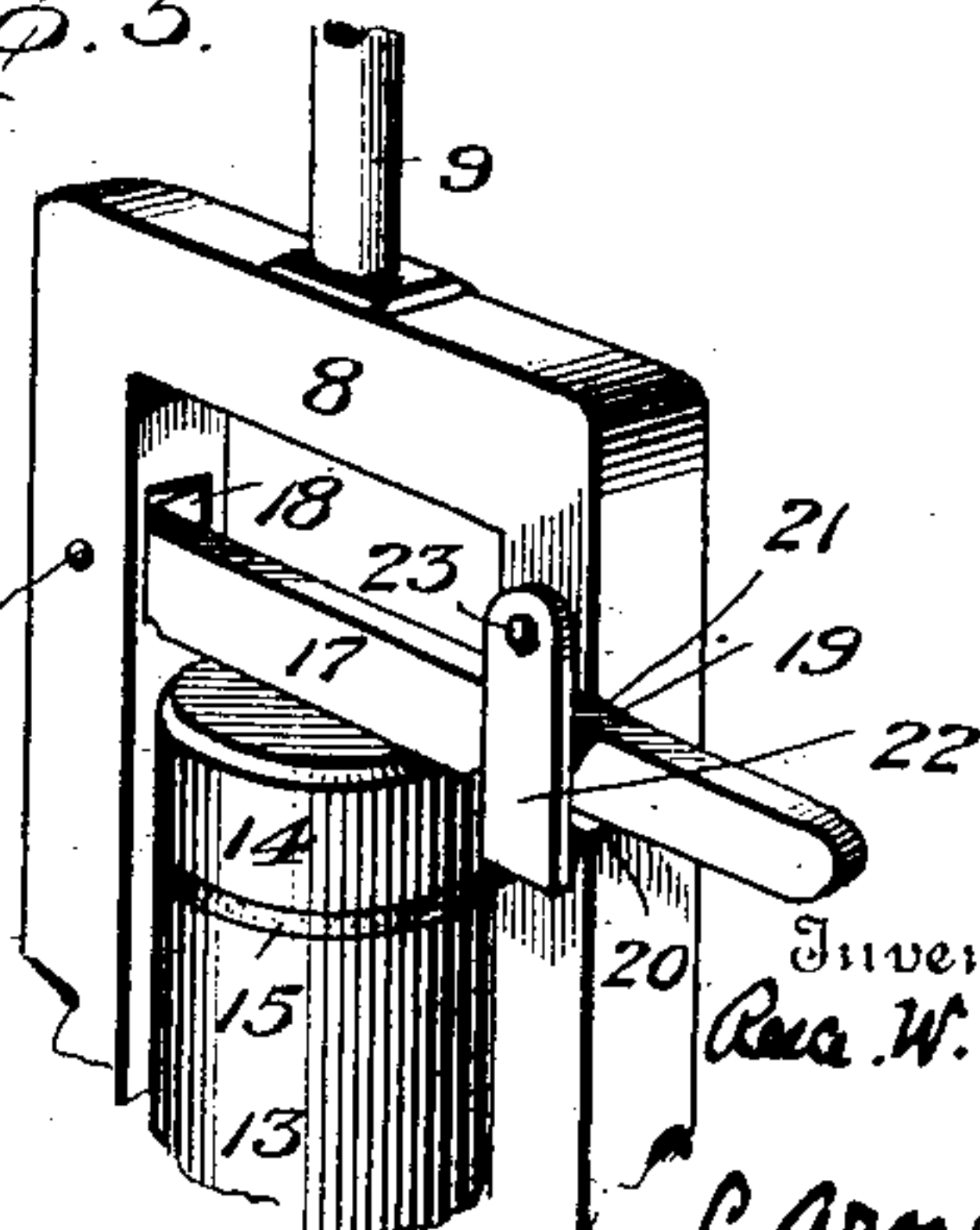
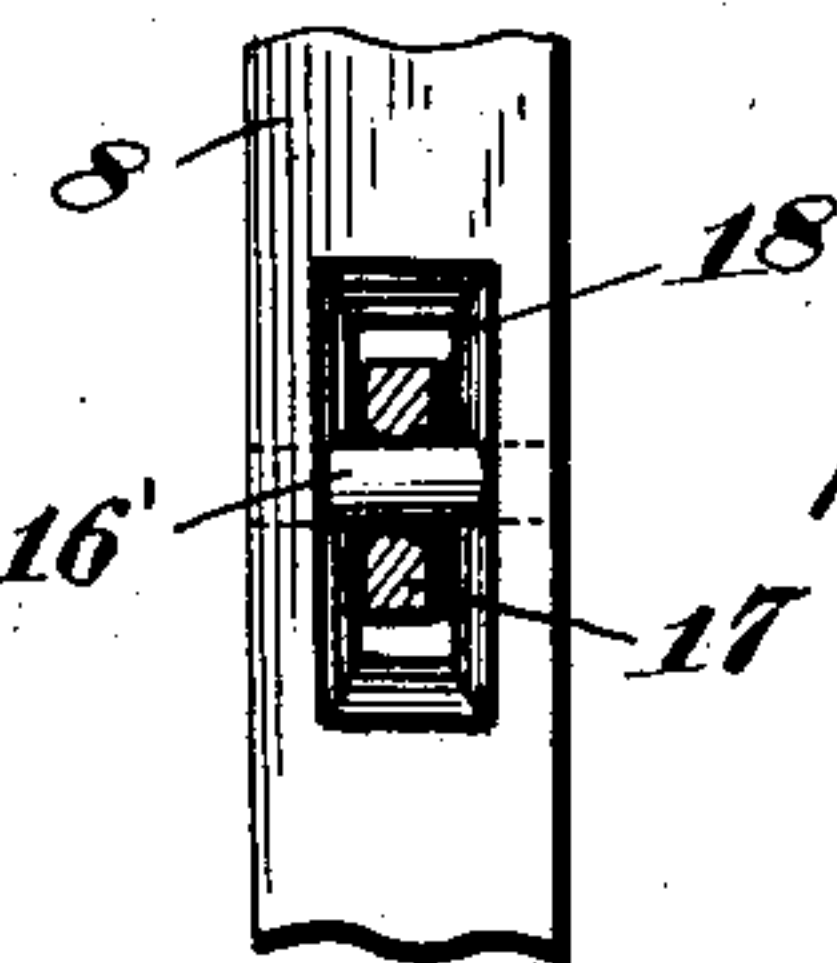


Fig. 6. Fig. 5.



Witnesses

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UNITED STATES PATENT OFFICE.

REECE W. PARK AND CHARLES L. ARNWINE, OF JACKSONVILLE, TEXAS.

SHAKING-CHURN.

SPECIFICATION forming part of Letters Patent No. 765,252, dated July 19, 1904.

Application filed December 12, 1903. Serial No. 184,942. (No model.)

To all whom it may concern:

Be it known that we, REECE W. PARK and CHARLES L. ARNWINE, citizens of the United States, residing at Jacksonville, county of Cherokee, and State of Texas, have invented certain new and useful Improvements in Shaking-Churns, of which the following is a specification.

Our invention relates to shaking-churns.

The object of the invention is the provision of improved means for holding the churn or jar in the shaking-frame whereby the churn or jar can be readily removed when desired.

Having the foregoing and other objects not specifically mentioned in view, the invention consists of an improved fastening means for the cover or top of the churn or jar and for holding the churn or jar in its frame.

In the accompanying drawings, Figure 1 is a front view, dotted lines representing the path of movement of the churn and its frame; Fig. 2, a side elevation; Fig. 3, a rear elevation; Fig. 4, a detail view showing the manner of seating the churn in the frame; Fig. 5, details of the manner of fastening the cover of the churn or jar, and Fig. 6 a detail of the connection of the lever with its pivot.

The frame 1 has a guide 2 projecting laterally from its upper part, and a short shaft 3 is journaled in its lower part, said shaft having a pulley 4, driven by a belt 5 from a hand-wheel 6, which constitutes the operating means. We wish it to be understood that gearing or other suitable driving means could be used in place of the pulley. The shaft 3 has a crank 7.

The shaking-frame 8 is of general rectangular form and provided at its upper end with a member 9, slidable in the guide 2, it being understood that the opening in the guide 2 is sufficiently large to admit of both longitudinal and lateral play of the member 9. At the other end of the frame 8 is a member 10, which has a bushing 11, connected to the crank 7. In the bottom of the frame 8 is a cup 12, which receives the lower end of the churn-body or jar 13, said churn 13 having a removable cover

14, seated on a gasket 15, whereby escape of the contents of the churn 13 when in operation is prevented.

Pivoted on a pin 16 at the upper part of the frame 8 is a lever 17. The end of the lever where pivoted on the pin 16 is received in an opening 18 of sufficient size to allow both lateral movement of the lever 17 and a swinging movement on the pin 16, the opening 18 in the lever which receives the pin 16 being of proper formation for this purpose. This lever is adapted to bear against the cover 14, and said lever has a notch 19 to take into a notch 20 on the frame 8. The shoulder 21 on the frame is of a cam-like construction to cause a wedging action on the top of the cover 14 when the lever is fastened—that is, when the notches 19 and 20 are made to engage. A guard 22, pivoted at 23, prevents accidental displacement of the lever. On swinging this guard aside the lever can be disengaged from the frame and the entire churn or jar 13 removed.

On turning the operating-wheel 6 the entire frame 8 and churn 13 are given an orbital movement constituting both longitudinal and lateral motion, which accomplishes the most perfect shaking action and gives a maximum quantity of butter from a given quantity of cream or, in the case of rechurning, from butter and sweet milk, while the device is also very easy of operation and the time required to churn is reduced very considerably.

We are aware that fastening means have been used for holding the cover of the churn or jar, but believe our present fastening device is novel, and it possesses advantages new to the art.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In a churn, the combination with a frame, of a churn, a cover for the churn, a lever for holding the churn, said lever being pivoted to the frame and having a cam connection with the frame to cause it to exert a wedging or binding action on the churn.

2. In a churn, the combination with a frame,
of a churn, and means for holding the churn
in the frame comprising a lever pivoted to the
frame, a connection between the lever and the
5 frame comprising notches on both of them and
a cam on one of them to engage the other, and
a guard for holding the lever engaged with
the frame.

In testimony whereof we hereunto affix our
signatures in presence of two witnesses.

REECE W. PARK.

CHARLES L. ARNWINE.

Witnesses:

A. L. BROOKS,

C. F. BOLES.