

914,986.

F. E. STAGG.

CHURN.

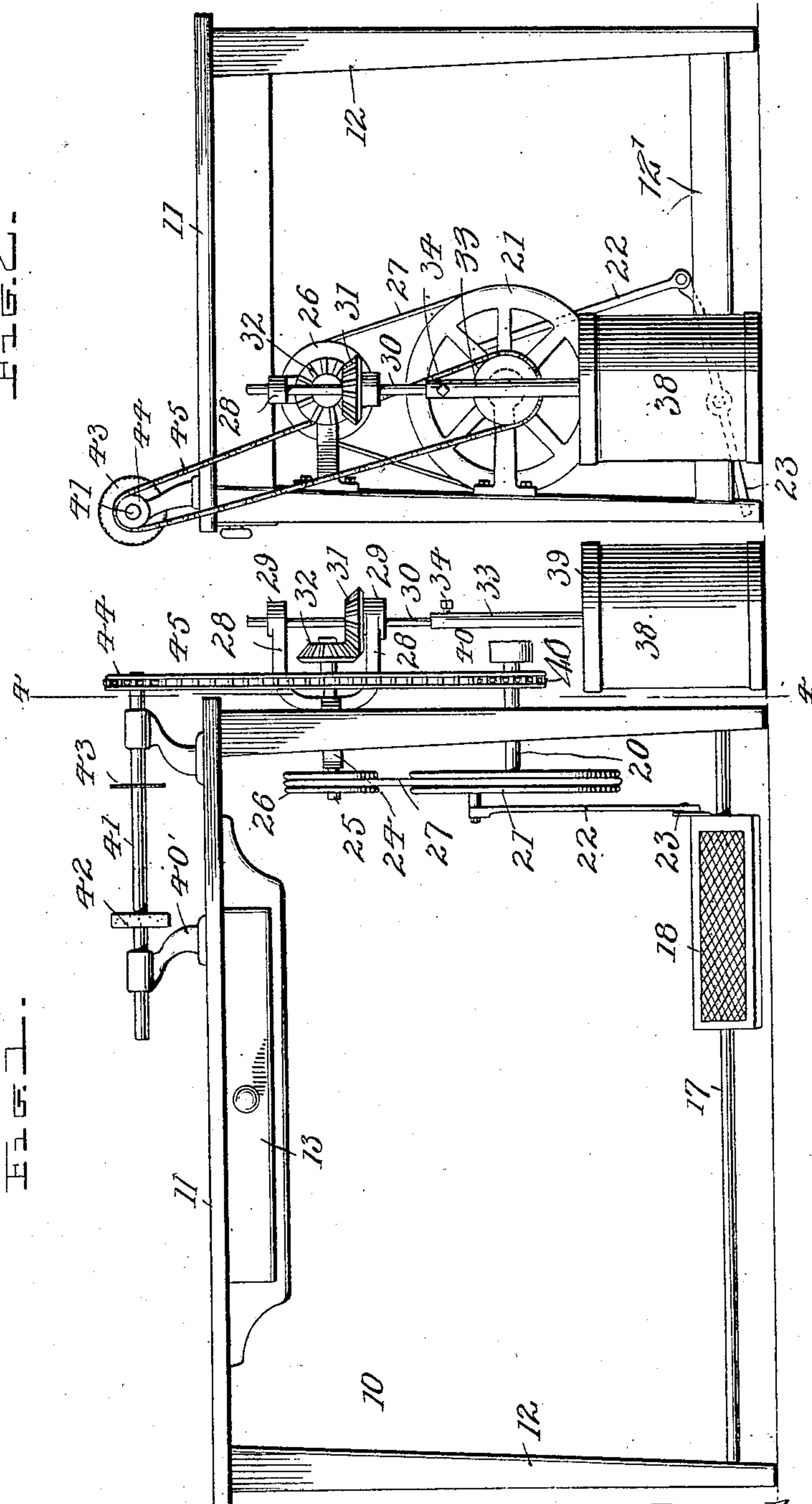
APPLICATION FILED AUG. 10, 1908.

Patented Mar. 9, 1909.

3 SHEETS—SHEET 1.

FIG. 2.

FIG. 1.



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3 SHEETS—SHEET 2.

FIG. 4.

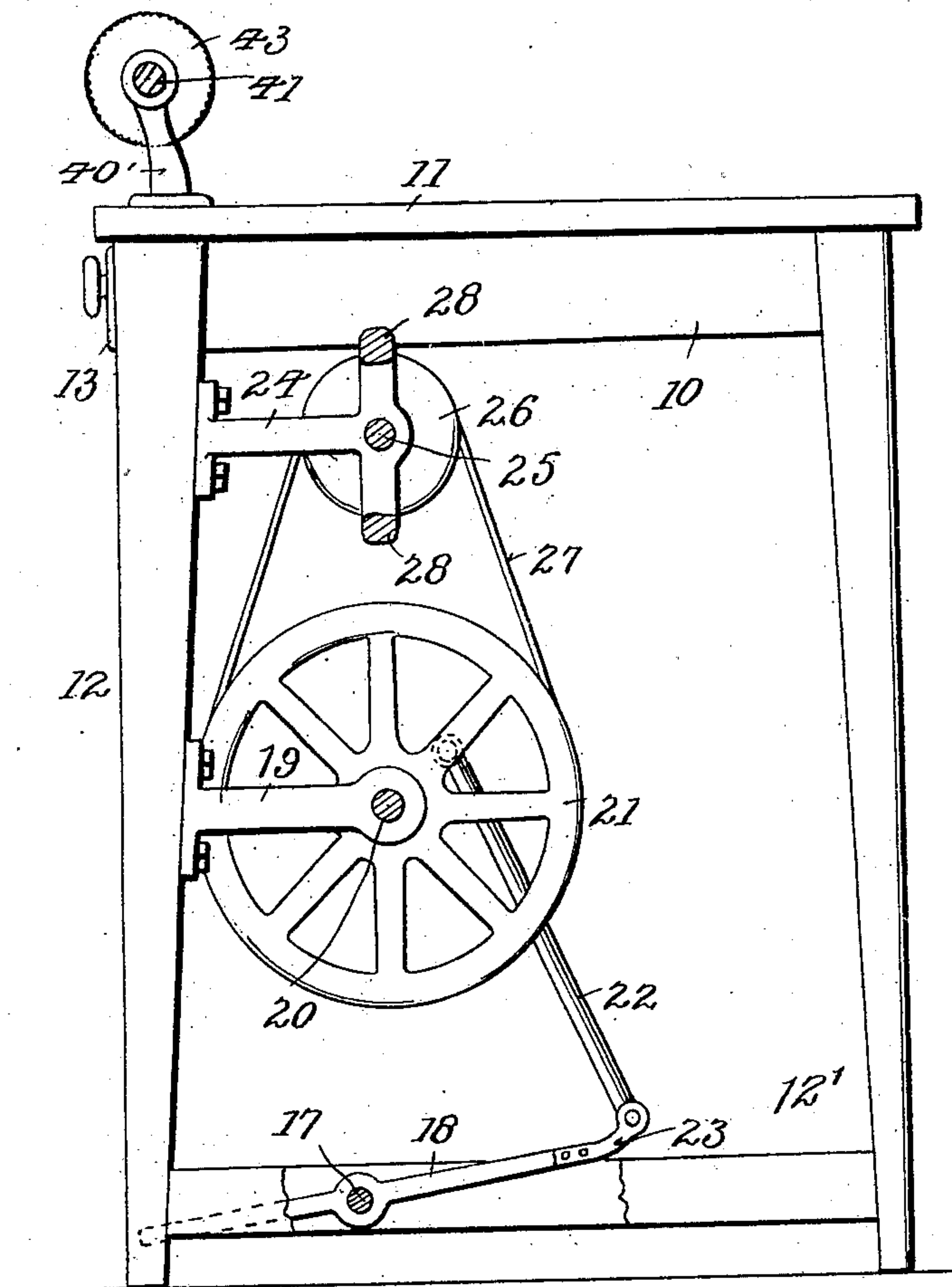
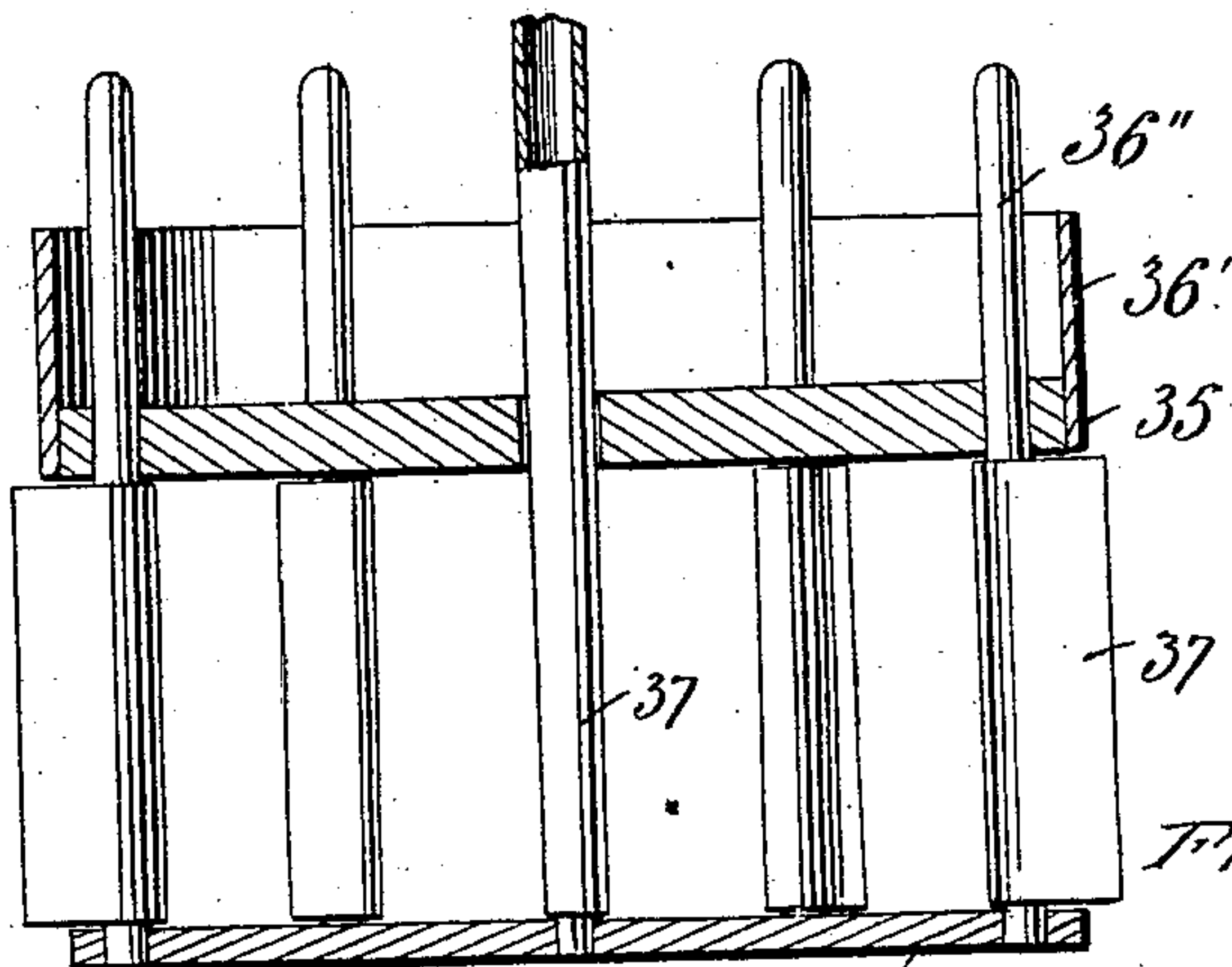


FIG. 5.



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Fig. 5.

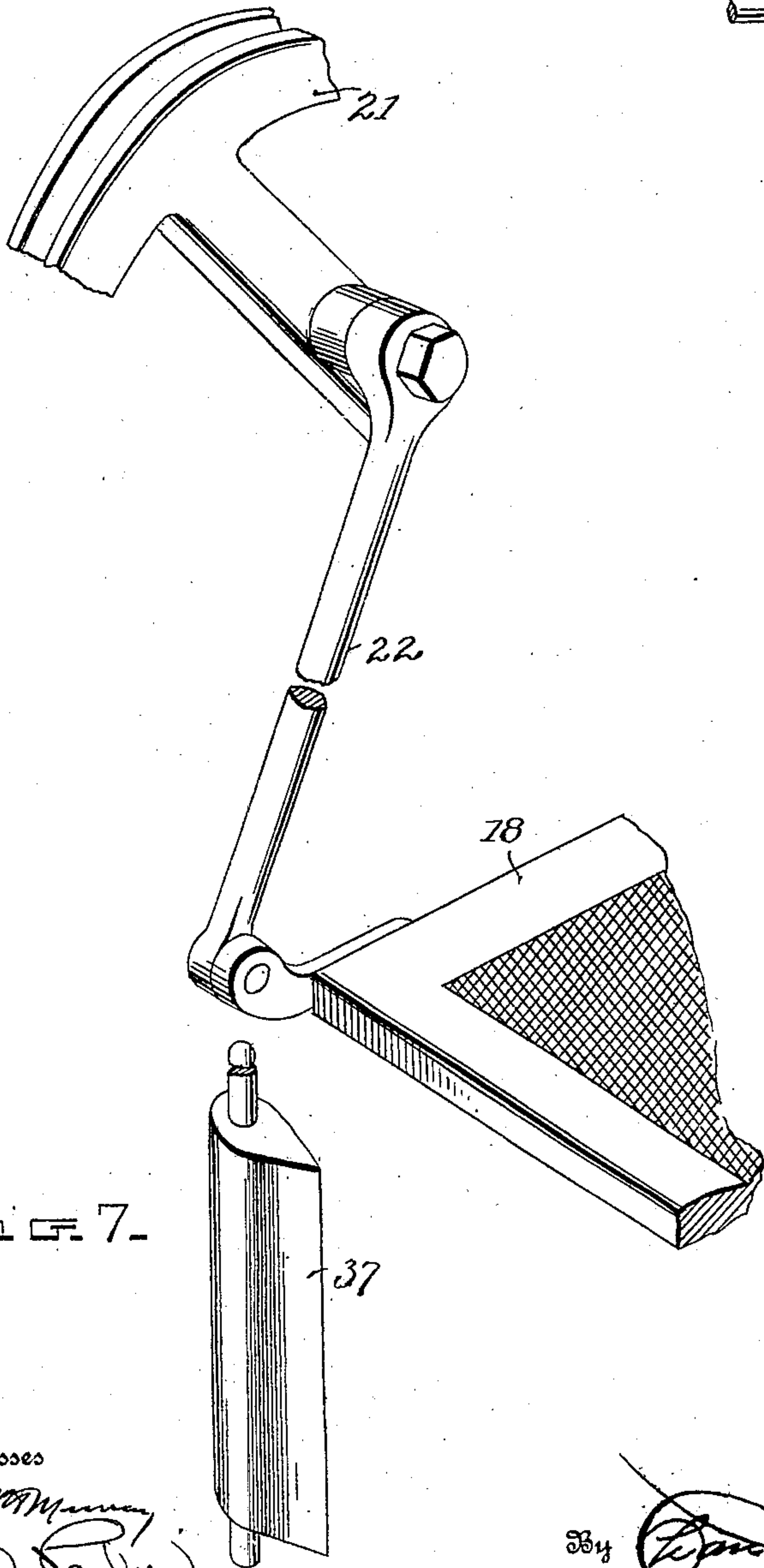
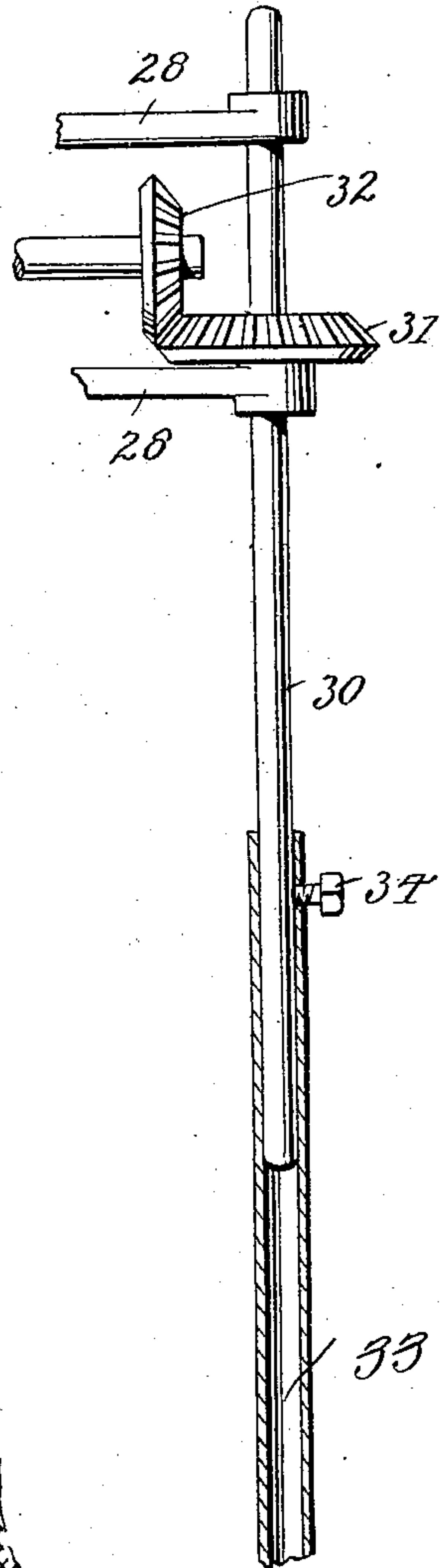


Fig. 7.

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Fig. 6.



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UNITED STATES PATENT OFFICE.

FRANK E. STAGG, OF ALVORD, TEXAS.

CHURN.

No. 914,986.

Specification of Letters Patent.

Patented March 9, 1909.

Application filed August 10, 1908. Serial No. 447,807.

To all whom it may concern:

Be it known that I, FRANK E. STAGG, a citizen of the United States, residing at Alvord, in the county of Wise, State of Texas, 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 it appertains to make and use the same.

The invention relates to a churn and more particularly to the class of churns having mechanism for actuating the same.

The primary object of the invention is the provision of a churn comprising a rotatable dasher which is connected by gearing to a wheel supported or mounted upon a table, and means whereby a treadle or driving element will operate said wheel.

Another object of the invention is the provision of a churn and means for actuating the dasher of the churn, the same being simple in construction, efficient, operative with a minimum amount of labor 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 and as illustrated in the accompanying drawings disclosing the preferred form of the embodiment of the invention. It is to be understood however, that changes, variations and modifications may be made such as come properly within the scope of the claim hereunto appended without departing from the spirit of the invention.

In the drawings: Figure 1 is a front elevation of the invention. Fig. 2 is an end view thereof. Fig. 3 is a longitudinal sectional view of the churn dasher. Fig. 4 is a sectional view on the line 4-4 of Fig. 1, and showing the driving mechanism in side elevation. Fig. 5 is a detail view of the main driving wheel with the detachable pitman operated by the treadle connected thereto. Fig. 6 is a fragmentary view in section of the telescoping dasher shaft. Fig. 7 is a detail perspective view of one blade of the dasher.

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

In the drawings the numeral 10 designates generally a table comprising a top 11, corner supporting legs 12 and a center draw 13 of

the ordinary construction. Journaled in a pair of the supporting bars 12' near the front legs and below the top of said table is a horizontal rocking treadle shaft 17 having fixed thereto adjacent one leg 12 is a foot treadle 18 of conventional form. A distance above the treadle 18 mounted in a suitable bearing bracket 19 fixed to the supporting leg 12 is a rotary horizontally disposed shaft 20 having at its inner end a main driving band wheel 21 to which is eccentrically connected a detachable pitman rod 22 the latter having its lower end pivotally connected to an extension 23 integral with the foot treadle. On the supporting leg carrying the bracket 19 and above the latter is fixed a further bearing bracket 24 having journaled therein a horizontal shaft 25 and has fixed at its inner end a band wheel 26 over which is trained a band strap or belt 27 the same also actuated by the foot treadle.

Laterally projecting from the bearing bracket 24 are superposed arms 28 in spaced parallel relation to each other and having at their terminals, bearings 29 in which is vertically mounted a driven shaft 30 the same having keyed thereto for sliding movement a beveled gear 31 in mesh with a corresponding beveled gear 32 fixed to the horizontal shaft 25 at the outer end thereof. Said driven shaft 30 has its lower end telescoping into a hollow dasher shaft 33 which carries a set screw 34 to adjustably lock the said driven shaft 30 to the dasher shaft. The dasher shaft 33 is connected to a rotary dasher wheel 35 comprising a lower disk 36 and a spaced butter cup 36' detachably connected to stems 36'' of vertically disposed dasher blades 37 arranged concentrically in the dasher wheel, which latter is mounted in a vertical churn body 38 having a removable top 39 fitted in the mouth of the said churn body. On the rotary shaft 20 at the outer end thereof is fixed a sprocket wheel 40 which may be driven by any suitable motive power if found desirable. Of course, it is understood that when motive power is used to actuate the rotary dasher wheel of the churn the said pitman rod 22 is detached from the band wheel 21 to release the foot treadle.

Upon the top 11 of the table are mounted bearings 40' in which is journaled a shaft 41 having fixed thereto between the bearings an emery wheel 42 and a circular saw 43 the

same being driven by a sprocket wheel 44 at the end of said shaft 41 and over which sprocket wheel 44 is trained a sprocket chain 45 the latter also trained over a sprocket wheel 40 on the shaft 20 so that the emery wheel will be actuated for sharpening knives and the like and also the saw actuated to cut bone or other material.

What is claimed is—

10 In a churn, the combination with a support, of a main driving wheel mounted upon said support, a bearing bracket above the main driving wheel, a horizontal shaft in said bracket, a band wheel on the end of said

shaft, a band strap trained over said driving and band wheel, a vertical driven shaft mounted in said bearing bracket, a churn body, a rotary dasher wheel within said body, and an adjustable dasher shaft connected to said dasher wheel and the driven shaft.

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

FRANK E. STAGG.

Witnesses:

JOHN R. ADCOCK,

THOMAS J. McCrARY.