

No. 834,674.

PATENTED OCT. 30, 1906.

J. E. KLEINER & H. J. ANDERSON.

STORE FURNITURE.

APPLICATION FILED MAR. 29, 1906.

2 SHEETS—SHEET 1.

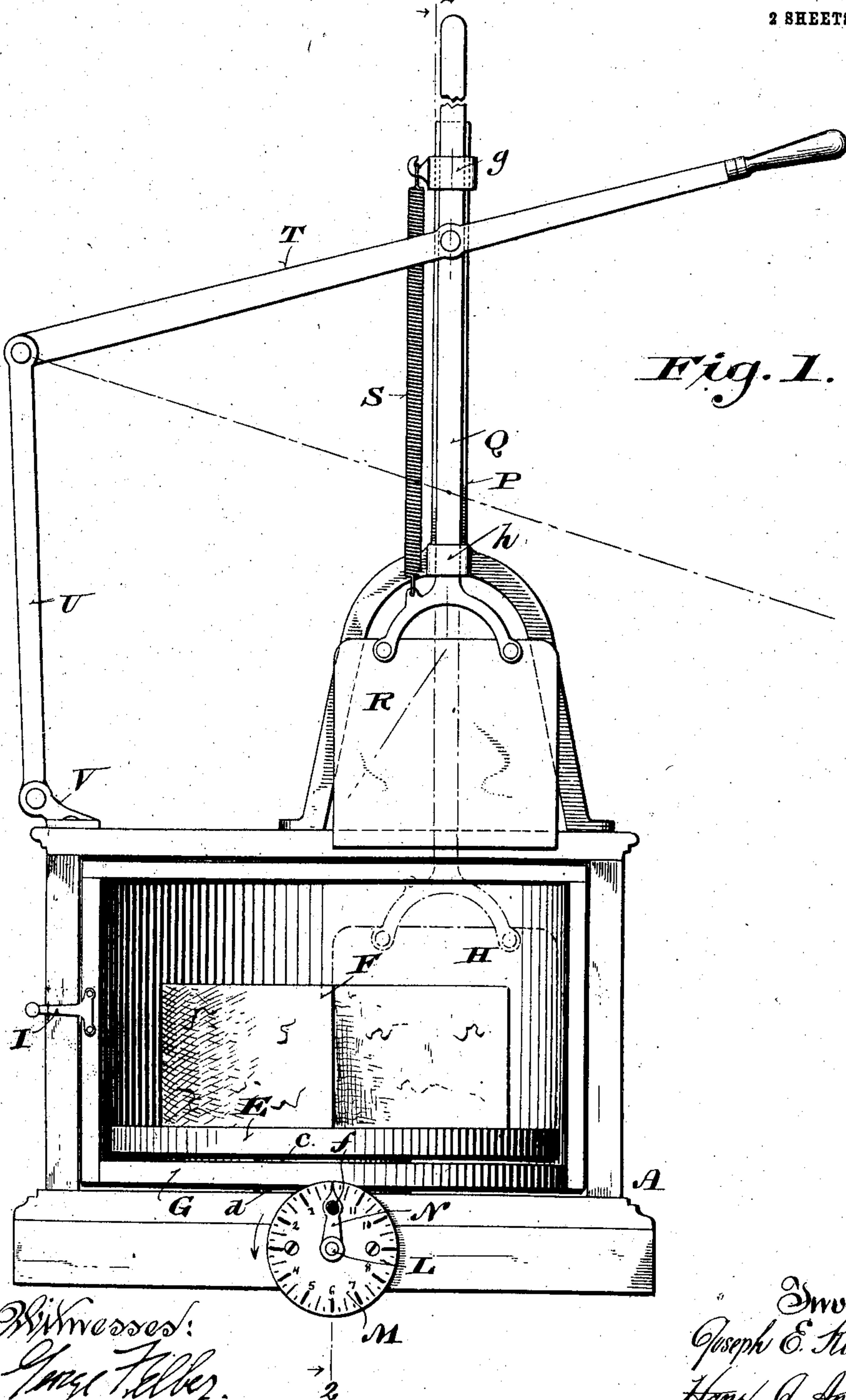


Fig. 1.

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Fred Palm.

Inventors:
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2 SHEETS—SHEET 2.

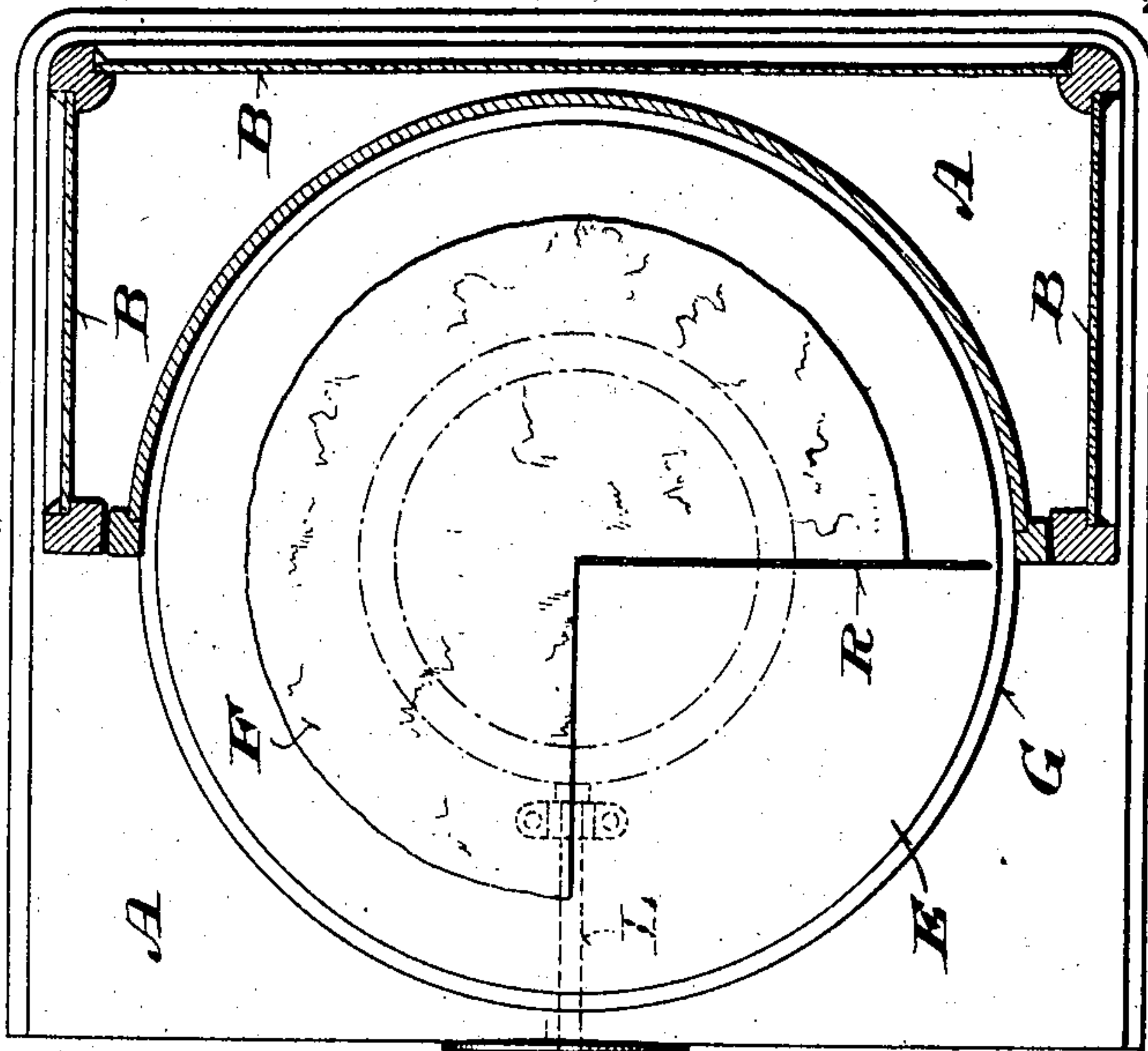


Fig. 3.

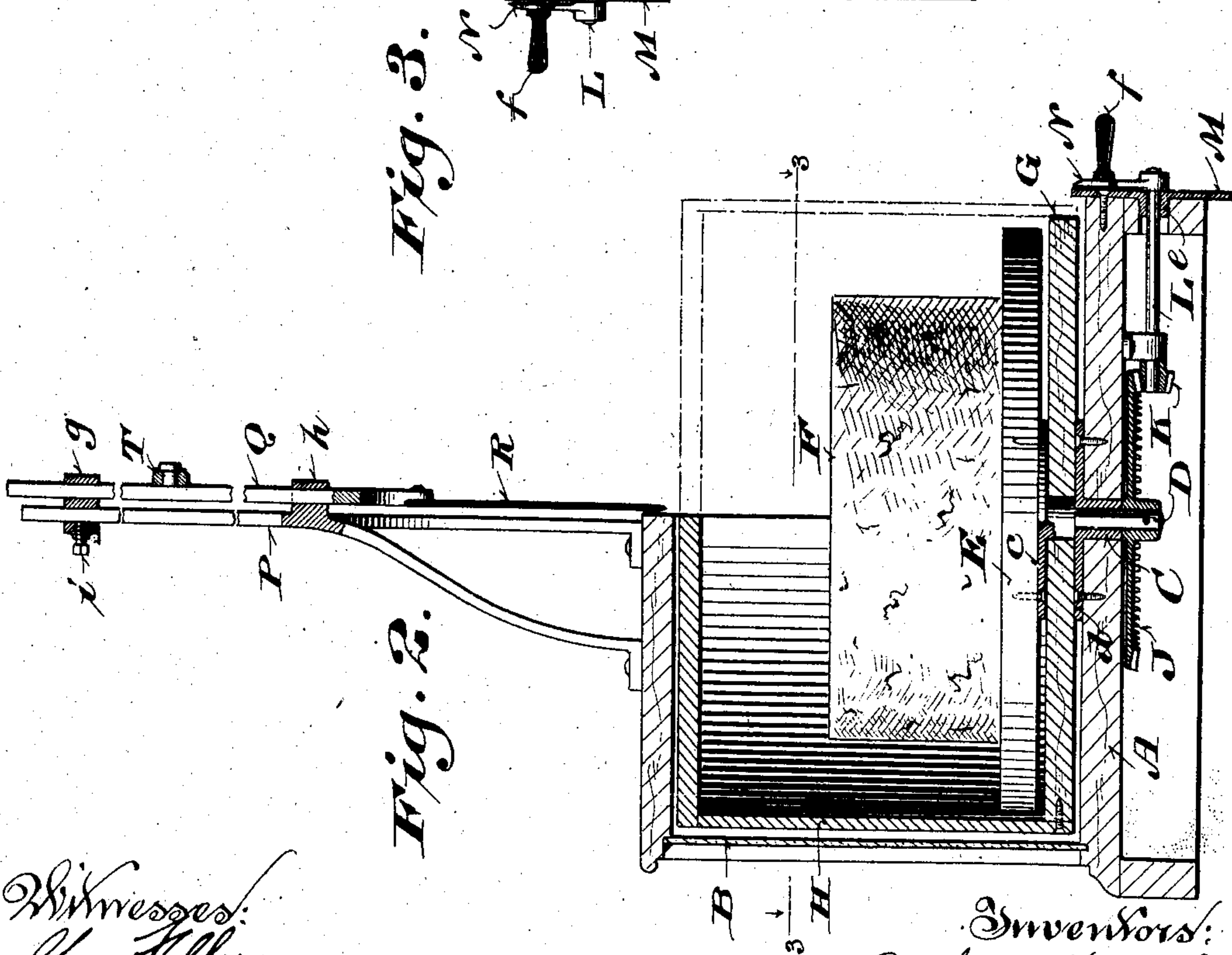


Fig. 2.

Witnesses:
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UNITED STATES PATENT OFFICE.

JOSEPH E. KLEINER, OF MADISON, AND HANS J. ANDERSON, OF LAKE-MILLS, WISCONSIN.

STORE FURNITURE.

No. 834,674.

Specification of Letters Patent.

Patented Oct. 30, 1906.

Application filed March 29, 1906. Serial No. 308,636.

To all whom it may concern:

Be it known that we, JOSEPH E. KLEINER, a resident of Madison, in the county of Dane, and HANS J. ANDERSON, a resident of Lake-mills, in the county of Jefferson, State of Wisconsin, citizens of the United States, have invented certain new and useful Improvements in Store Furniture; and we do hereby declare that the following is a full, clear, and exact description thereof.

Our invention has for its object to improve store furniture similar to that set forth in Patent No. 617,292, granted January 3, 1899, said invention consisting in certain peculiarities of construction and combination of parts herein shown, described, and claimed as constituting a cheese-safe, a rotary adjustable table therein, a cheese-cutting mechanism, and means in connection with the table-adjusting mechanism for computing the amount of cheese to be cut.

Figure 1 of the accompanying drawings represents a rear elevation of a cheese-safe provided with a rotary adjustable table, cutting mechanism, and computing mechanism in accordance with our invention; Fig. 2, a vertical transverse section of the same indicated by line 2 2 in Fig. 1, and Fig. 3 a horizontal section indicated by line 3 3 in Fig. 2.

Referring by letter to the drawings, A indicates the bottom of an open-back preferably rectangular case ordinarily provided with front and end panels B, of glass, said bottom being rearwardly extended from the remainder of the case. The case-bottom is provided with a central bearing C for a shouldered spindle D, having a disk head *c*, made fast to an annular table E, upon which a circular cheese F is supported.

Loose on the upper shoulder portion of the spindle, between the disk head of same and a similar head *d* of the bearing C, is the annular bottom G of an otherwise semicircular closure H for the case aforesaid. To facilitate rotary adjustment of the closure, the same is provided with a handle I, and this handle abuts against one or the other of the rear posts of the case A to prevent overrunning of said closure.

Fast on the lower end of the spindle is a bevel gear-wheel J, in mesh with a bevel-gear-pinion K, fast on an arbor L, for which the bottom and rear of the case aforesaid are provided with bearings. The rear bearing

for the arbor is preferably a hub extension *e* of a dial M, fastened by screws or other suitable means to the case and graduated for pounds and fractions of pounds avoirdupois. Fastened on the outer end of the arbor is an indicator N, and a handle *f* is provided in connection with the indicator.

Made fast on the top of the case A is a standard P, provided with guides *g h* for a forked shank Q, and a cheese-cutting blade R is fastened to the fork branches of the shank. The shank-guide *g* is vertically adjustable on the standard P and held in adjusted position by a set-screw *i* to tension a spiral spring S, connected at its ends to said guide and a fork branch of the shank aforesaid.

In pivotal connection with the shank Q is a lever T, and one end of the lever is connected by a link U with a bracket V, fast on the top of the case A above specified.

The blade R is hung to be normally clear of the top of the closure H for the case A and parallel to the rear upper portion of said case, and its depth is such as to cut through the thickness of a cheese of standard size positioned on the table E aforesaid, the width of the blade and its arrangement being such that it also cuts radially of the cheese from the center of said table. The blade is moved down by the lever T against resistance of the spring S, that serves as a counterpoise for said blade and lever. After the first cut the table and cheese thereon are moved on their axis by turning the arbor L to bring said cheese in position under the blade for the next cut, the approximate weight of the slice being computed by the indicator N, traversing the dial M adjacent thereto.

Preliminary to the cutting operation above described the closure H is rotated to open the case A and clear the cutting-blade, and said blade and parts in connection therewith having been returned to normal position, automatically or otherwise, said closure is swung to normal position, its rotary movement being always independent of the cheese-table.

We claim—

1. A support, a table in rotatable connection with the support, a blade arranged radially of the table and provided with a vertical shank, a standard provided with shank-guides one of which is vertically adjustable,

a counterpoise-spring connecting the adjustable guide and the shank, a lever in pivotal connection with said shank, and a link connecting one end of the lever with a stationary
5 device.

2. An open-back case provided with a rotary adjustable closure, a rotatable table independent of the closure within the confines of same and those of the case, and a lever-
10 controlled vertically-reciprocative counterpoised cutter normally clear of said closure and parallel to the rear upper portion of said case.

3. An open-back case provided with a rotary adjustable closure, a rotatable table independent of the closure within the confines of same and those of the case, a lever-controlled vertically-reciprocative counterpoised
15 cutter normally clear of said closure and parallel to the rear upper portion of said case, an indicator in gear connection with the table, and a graduated dial adjacent to the indicator.

4. An open-back case provided with a bearing, a table having a shouldered spindle engaging the bearing, a rotary adjustable closure for the case loose on the upper shoulder
25 portion of the spindle, an indicator having an arbor in gear connection with said spindle, a graduated dial adjacent to the indicator, and
30

a lever-controlled vertically-reciprocative counterpoised cutter normally clear of said closure and parallel to the rear upper portion of said case.

5. An open-back case, a standard and
35 bracket thereon, a rotary adjustable closure for the case, a table in rotatable connection with the support within the confines of the closure and case independent of said closure, an indicator in gear connection with the ta-
40 ble, a graduated dial adjacent to the indicator, a shank for which the standard is provided with guides, a blade in connection with the shank radially of said table, a lever in pivotal connection with said shank and linked at
45 one end to the aforesaid bracket, and a counterpoise for the shank, blade and lever, said blade being normally parallel to the rear upper portion of the case clear of the closure for same.
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In testimony that we claim the foregoing we have hereunto set our hands, at Lakemills, in the county of Jefferson and State of Wisconsin, in the presence of two witnesses.

JOSEPH E. KLEINER.
HANS J. ANDERSON.

Witnesses:

W. H. WOOD,
E. C. BROWN.