

No. 661,112.

Patented Nov. 6, 1900.

P. J. VANDERLINDA.
KNOCKDOWN REFRIGERATOR.

(Application filed July 18, 1900.)

(No Model.)

2 Sheets—Sheet 1.

Fig. 2.

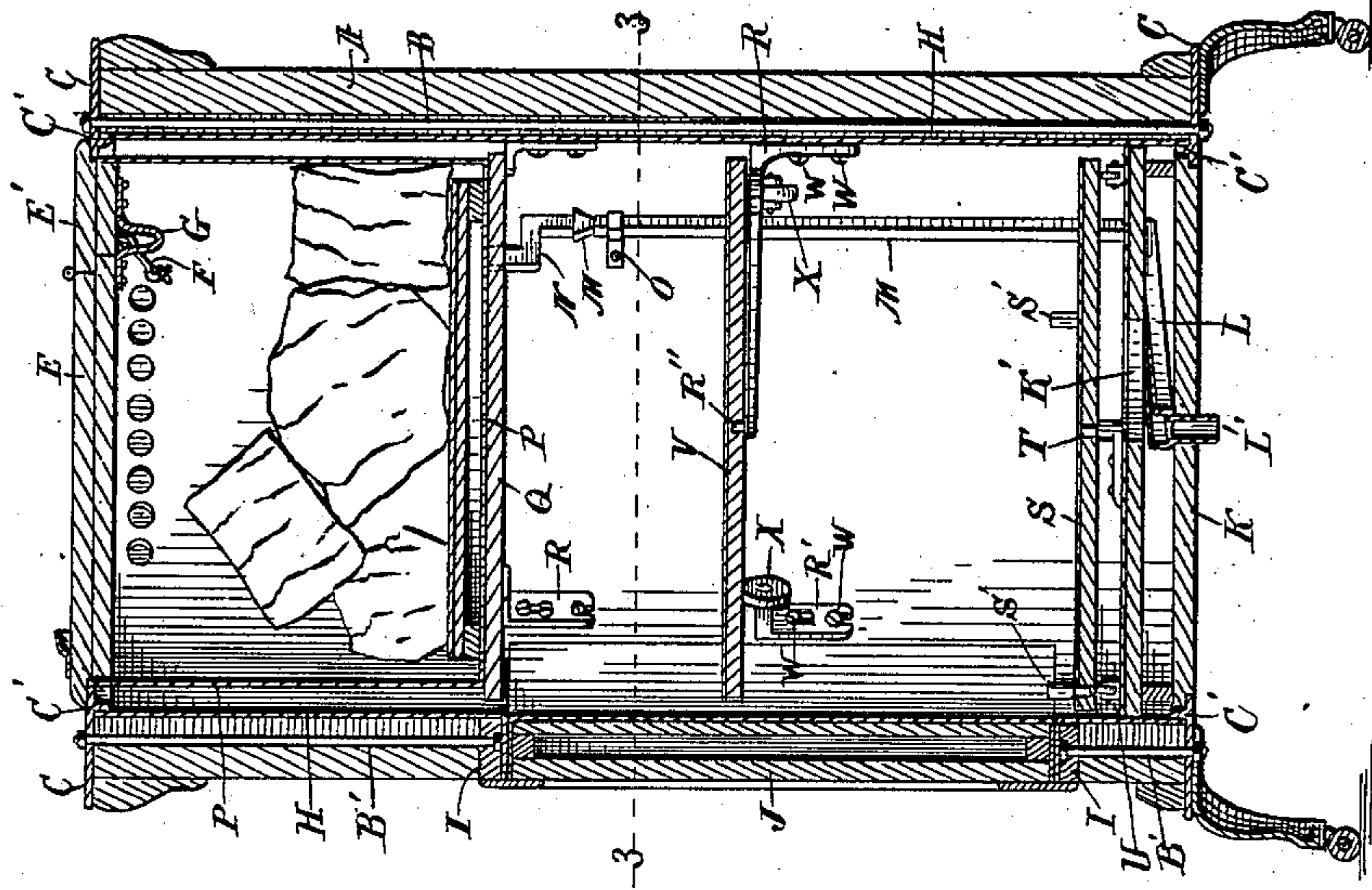
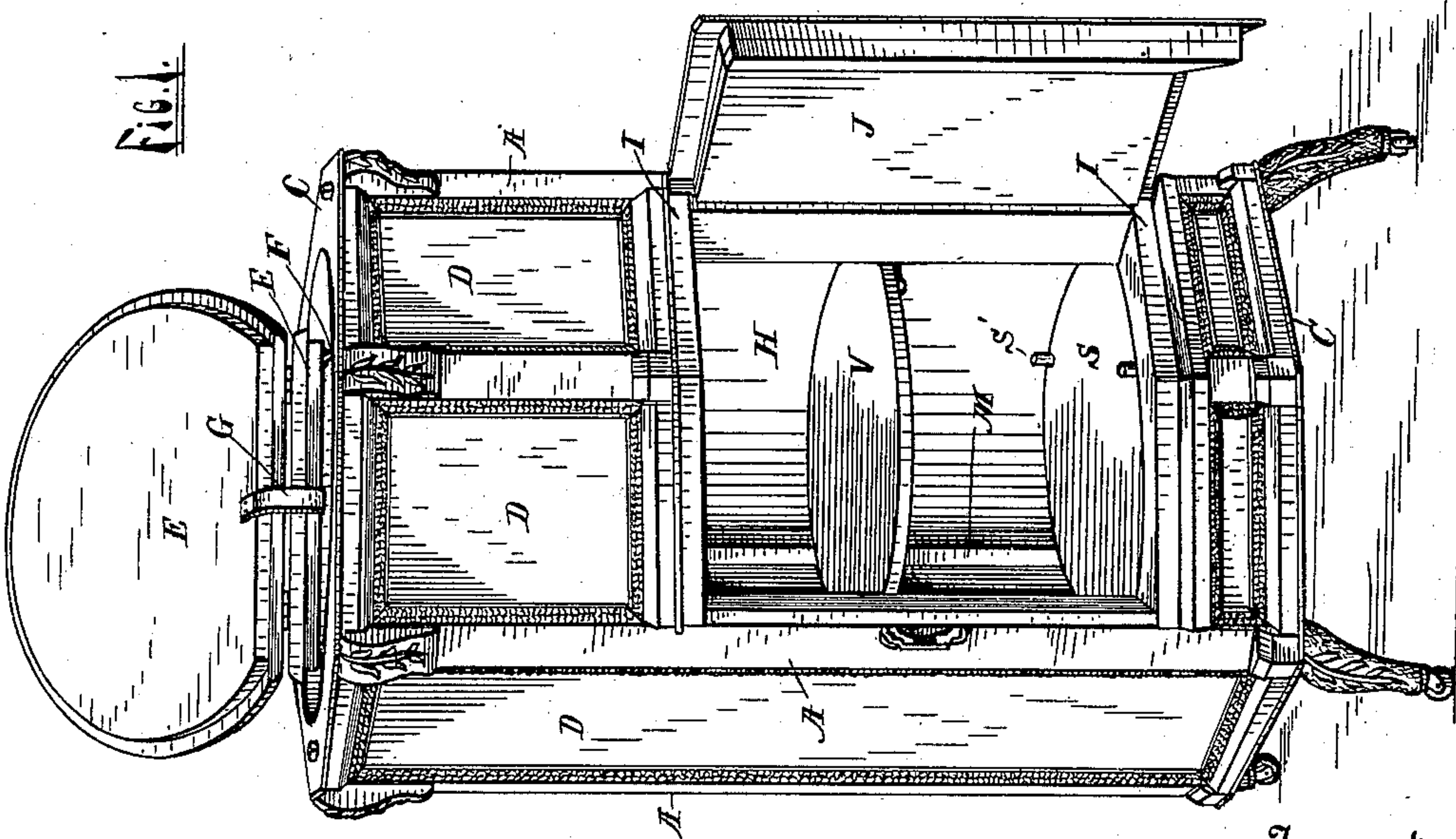


Fig. 1.



Witnesses

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FIG. 3.

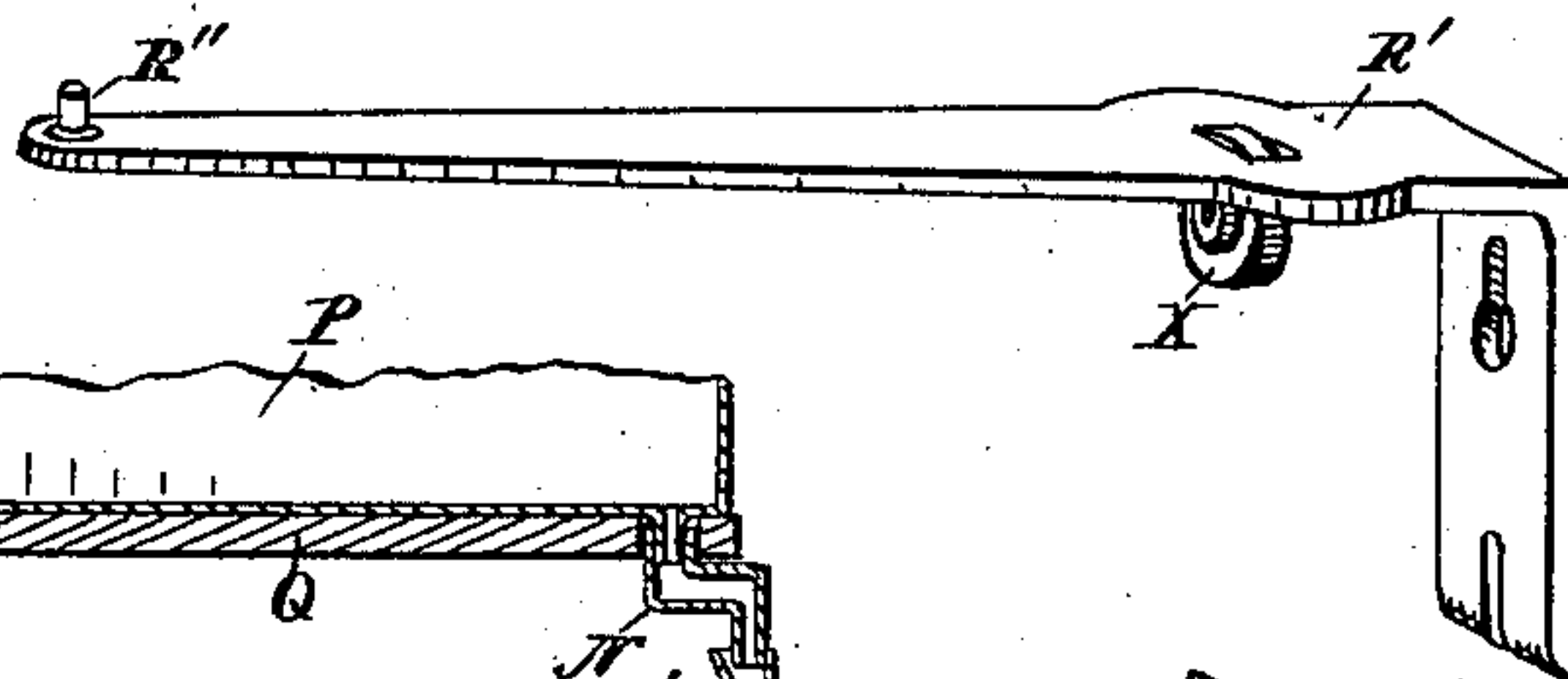
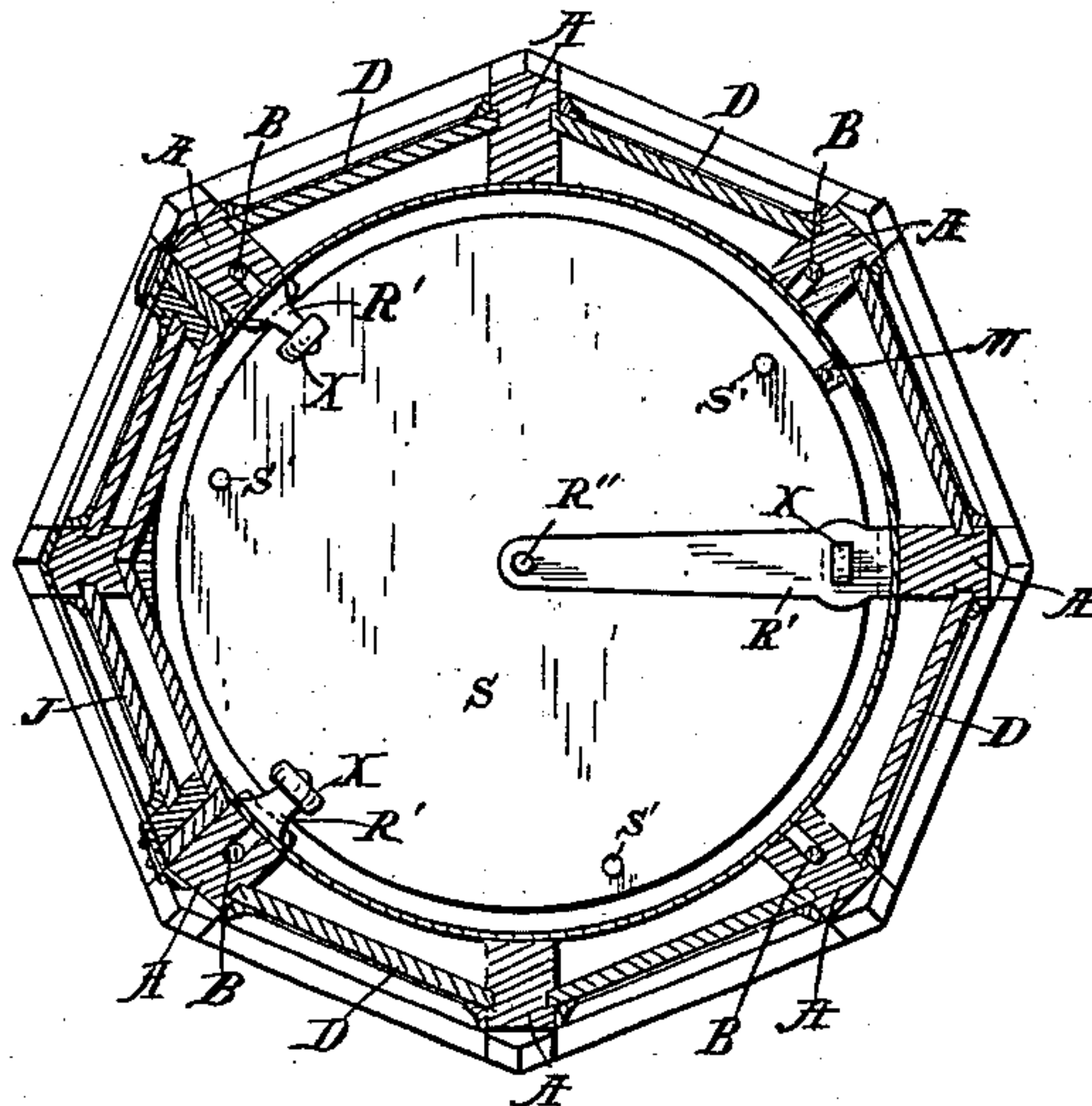


FIG. 6.

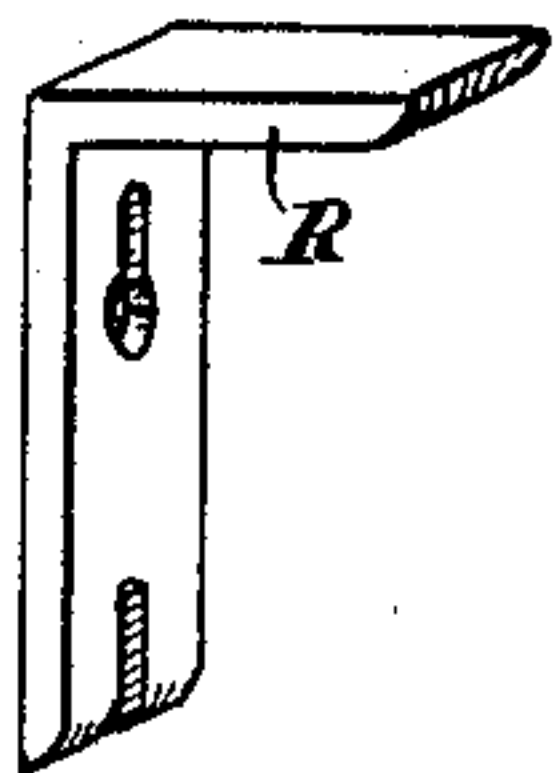


FIG. 5.

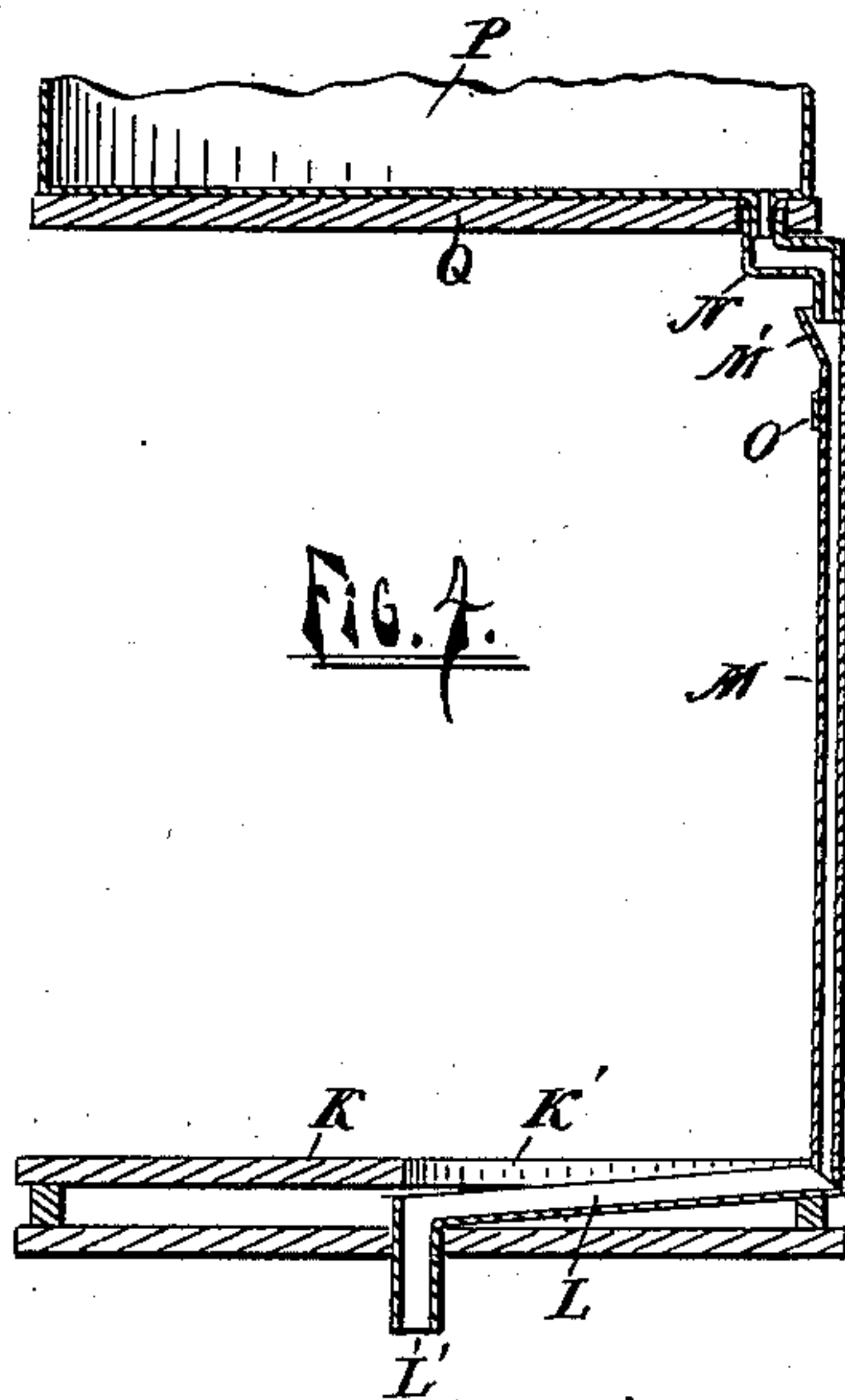


FIG. 7.

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UNITED STATES PATENT OFFICE.

PETER J. VANDERLINDA, OF GRAND RAPIDS, MICHIGAN, ASSIGNOR OF
ONE-HALF TO EDWIN L. BOWRING, OF SAME PLACE.

KNOCKDOWN REFRIGERATOR.

SPECIFICATION forming part of Letters Patent No. 661,112, dated November 6, 1900.

Application filed July 16, 1900. Serial No. 23,710. (No model.)

To all whom it may concern:

Be it known that I, PETER J. VANDERLINDA, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Knockdown Refrigerators; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in knockdown refrigerators; and its objects are to provide a device that can be readily assembled and taken apart and that will be convenient in use and easily cleaned or repaired and to provide the same with certain new and useful features, hereinafter more fully described, and particularly pointed out in the claims.

My invention consists, essentially, in constructing the body of the device in the form externally of a polygon, with a post at each angle and panels between the posts, and providing detachable heads and bolts, whereby the structure is held when assembled; also, in providing rotary shelves supported upon detachable brackets, and, further, in providing a detachable drip-pipe and open drain for convenience in cleaning, as hereinafter more fully and particularly described, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective of a device embodying my invention; Fig. 2, a vertical section of the same from front to rear; Fig. 3, a horizontal section on the line 3 3 of Fig. 2, with the upper turn-table removed; Fig. 4, a detail of the drainage mechanism in vertical section; Fig. 5, a detail of one of the detachable brackets for the ice-receptacle support, and Fig. 6 a detail of one of the brackets supporting the upper turn-table.

Like letters refer to like parts in all of the figures.

The case or body of the structure is preferably made octagon, as shown, but may have any convenient number of vertical angles. At each of said angles is a post A, provided with grooves in its sides to receive the panels D, and a sufficient number of said posts are

provided with grooves in the back side, in which grooves are the tie-bolts B, which bolts extend through heads C C at the respective ends of the structure, which heads have external angles corresponding to the vertical angles of the structure and suitable central openings. Said heads also have flanges C' to engage the inner surface of the lining H, which lining at the other side is engaged and held by the inner sides of the posts A.

E is a suitable cover closing the opening of the upper head and having a detached and hinged segment E', detachably secured in place by hooks or other suitable fastenings F. A strap G is attached to the cover at each end and spans the hinged joint thereof and limits the opening of the cover. The ice-receptacle P is of less diameter than the lining to afford an air-passage, and its upper edge fits within the opening in the upper head C and is closed by the cover E. This ice-receptacle is supported upon a floor Q, detachably supported upon brackets R. Said brackets are also detachably secured in place upon screws W, inserted in keyhole-slots in the brackets. This floor is also of less diameter than the lining to permit air to pass, and the ice-receptacle is suitably perforated in its sides to permit of air circulation in the usual way. A double bottom K is detachably supported within the lower head and closes the opening therein. The upper part of the bottom is provided with a groove or channel K', beneath which is an open inclined trough L, terminating at the axis of the structure in a downwardly open nipple L' and at its upper end close to the lining H. From the upper end of this trough extends vertically between the edges of the turn-tables and the lining a pipe M, terminating in a funnel-shaped coupling at the top and detachably secured in place by a clip O.

N is a double elbow having its lower end inserted in the coupling M' and its upper end connected to a nipple in the bottom of the ice-receptacle and detachably supported and held in place thereby.

S is a turn-table in the bottom of the case, rotative about a pin T, secured to the bottom K, and supported on a series of rolls U, and provided with pins S' to turn the said

table. An upper turn-table V is also provided, and to avoid the obstruction of a center post this latter table is supported upon detachable brackets R', secured in the same manner as the brackets R and provided with rolls X. One of said brackets R' is extended inward to the axis of the table V and provided with a pin R'', which engages a suitable opening in said table to form a journal for the same.

The door J is made integral and extends across two or more sides of the structure, being provided with suitable angles. To provide an opening for said door, sills I I are inserted, as shown, and secured by short bolts B' B'.

By the construction shown it will be seen that the internal parts are all readily removable. The ice-receptacle can be lifted out through the opening of the upper head after detaching the cover by releasing the hooks F. The floor and turn-tables can be removed through the door, the brackets detached, and by removing a screw from the clip O the pipe M can be removed. By removing the bolts B and B' the outer case is readily taken apart also. Another feature is that the drain-pipe M and elbow N can be removed and cleaned at any time by releasing the clip O, and by removing the turn-table S the trough L can be cleaned through the slit K' without removing it from place.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a refrigerator, a case having polygonal sides formed of a series of posts having grooves in their sides, panels engaging the grooves in the posts and a lining, heads engaging the ends of the posts, lining and panels, and bolts connecting the heads, substantially as described.

2. In a refrigerator, walls of polygon form consisting of a series of posts having grooves in their sides and panels engaging the grooves, and a cylindrical lining; in combination with heads having polygonal outlines and flanges, and engaging the ends of the posts, panels and lining, and bolts connecting the heads, substantially as described.

3. The combination of heads having polygonal outlines, flanges, and circular openings; posts extending between the angles of the heads, a cylindrical lining engaged by the flanges of the heads, a detachable cover, closing the upper head, and a detachable bottom closing the lower head, substantially as described.

4. In a refrigerator, the combination of annular heads each having a central opening and a flange, posts having grooves in their sides and rear, panels engaging the side grooves in the posts, bolts in the rear grooves of the posts and connecting the heads, a cy-

lindrical lining engaged by the flanges at one side and engaged by the posts at the other side, transverse sills between the posts, bolts connecting the sills and heads, a door between the sills, a top having a hinged segment and detachably secured in the upper head, and a detached bottom closing the lower head, substantially as described.

5. In a refrigerator, a bottom having a groove or channel, an open inclined trough in the channel, a detachable pipe extending upward from the trough and an ice-receptacle detachably connected to the pipe, substantially as described.

6. In a refrigerator, or ice-receptacle having a nipple, a bottom having a channel, an open trough in the channel a pipe extending upward from the trough and a nipple extending downward from the same, a clip detachably holding the pipe, and an elbow detachably connecting the pipe and the nipple of the ice-receptacle, substantially as described.

7. In a refrigerator, in combination with an ice-receptacle having a nipple, a double elbow, a pipe having a coupling engaging the elbow, an open trough having one end beneath the pipe and a nipple extending downward from the trough at its other end, substantially as described.

8. In a refrigerator, a turn-table, brackets having keyhole-slots, screws in the wall of the refrigerator to engage the slots in the brackets, rolls on the brackets engaging and supporting the turn-table, an extension on one of the brackets, and a pivot-pin on the extension and engaging an opening in the axis of the turn-table, substantially as described.

9. In a refrigerator, a turn-table, brackets detachably secured to the wall of the refrigerator and provided with rolls, one of said brackets also having an extension pivotally connected to the axis of the turn-table, substantially as described.

10. A knockdown refrigerator, consisting of a series of posts having grooves, panels between the posts and engaging the grooves, a cylindrical lining, heads engaging the ends of the posts, panels, and lining, bolts connecting the heads, a detachable cover to the upper head, a detached floor and turn-table, brackets detachably secured to the wall of the refrigerator and supporting the floor and turn-table, a detachable ice-receptacle supported by the floor, and a detachable drain-pipe to the ice-receptacle, substantially as described.

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

PETER J. VANDERLINDA.

Witnesses:

LUTHER V. MOULTON,
LOIS M. JONES.