

No. 737,684.

PATENTED SEPT. 1, 1903.

H. A. WARREN.
DISPLAY CABINET.
APPLICATION FILED JUNE 10, 1903.

NO MODEL.

Fig. 1.

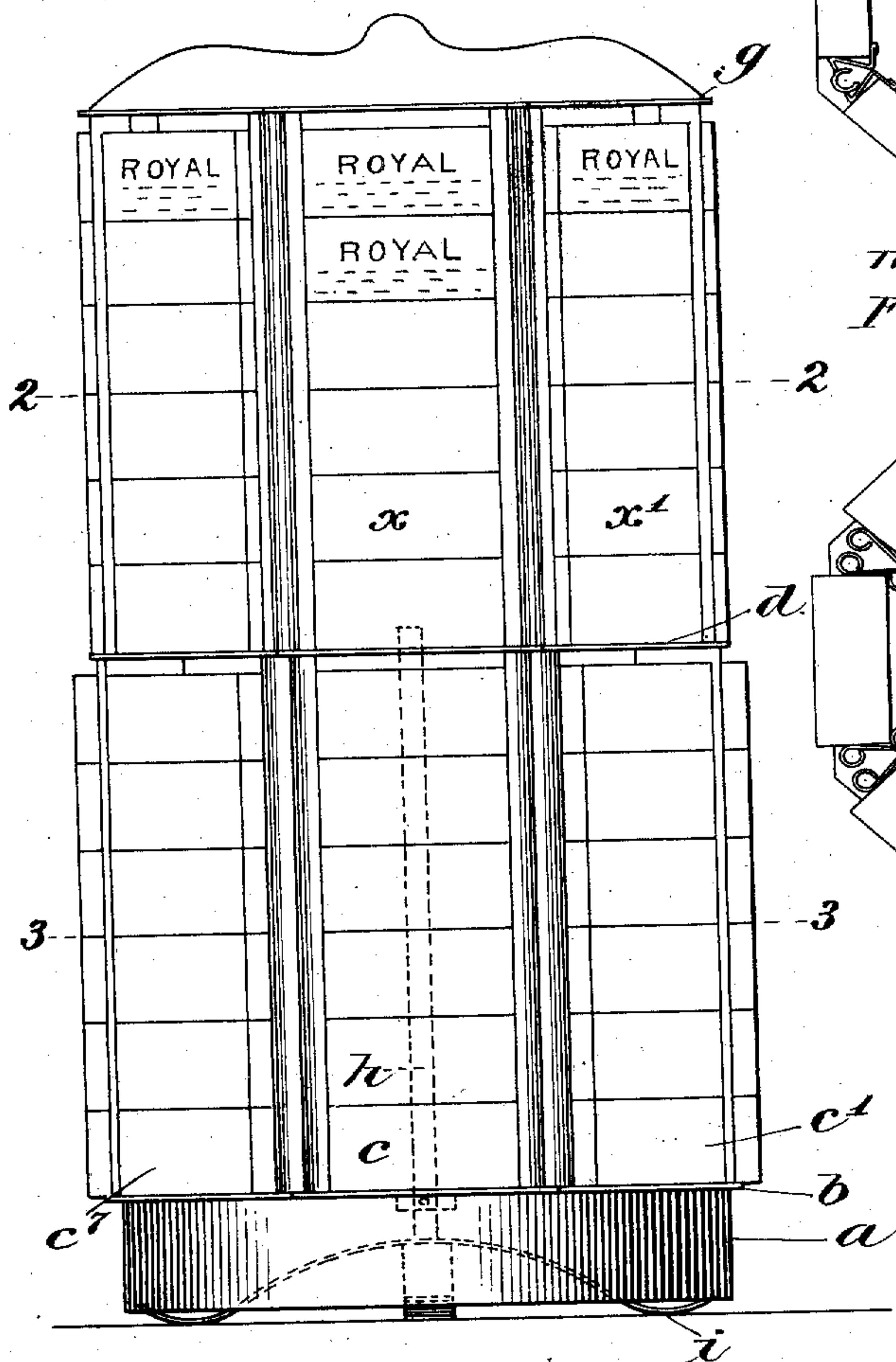


Fig. 2.

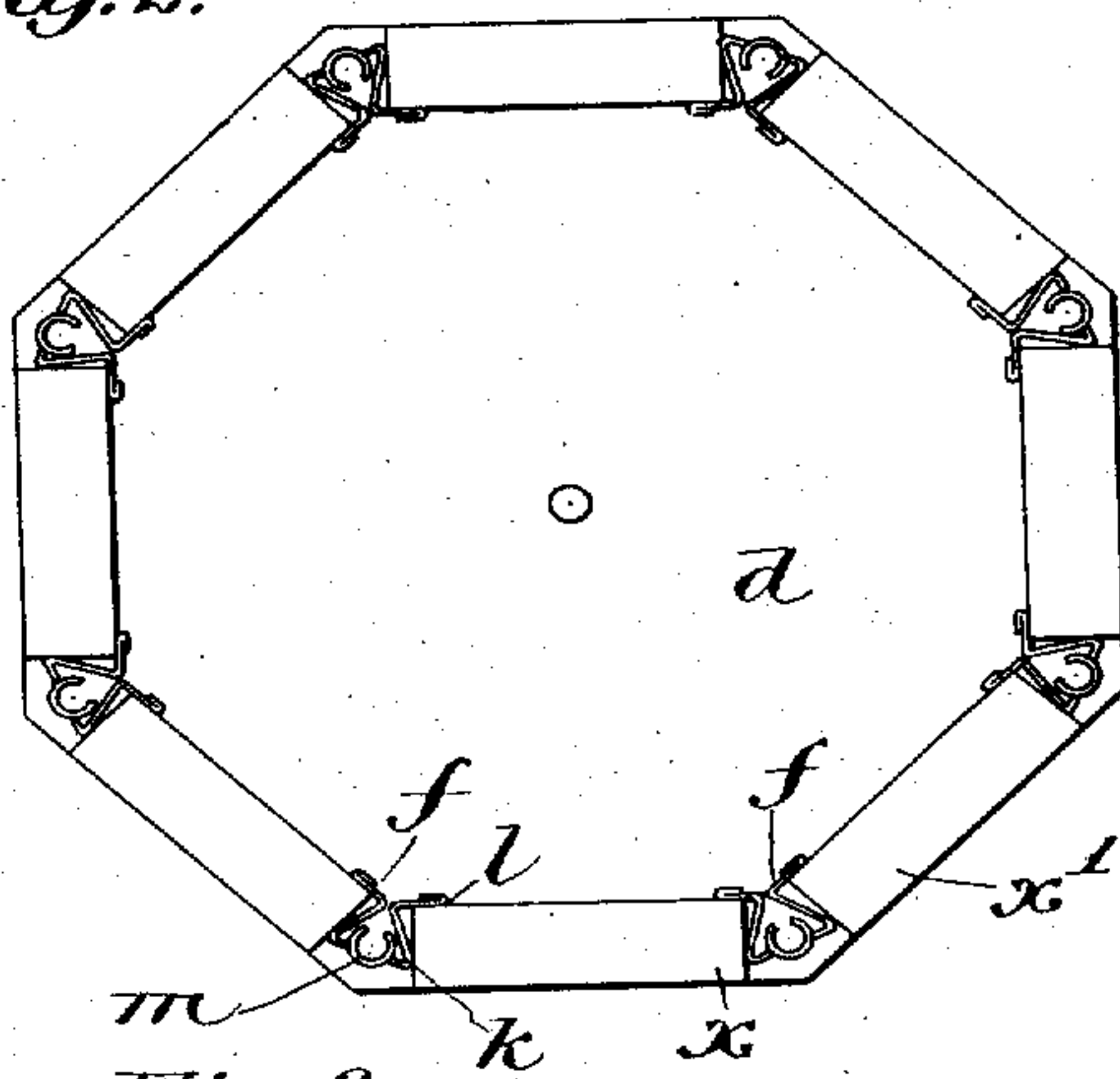
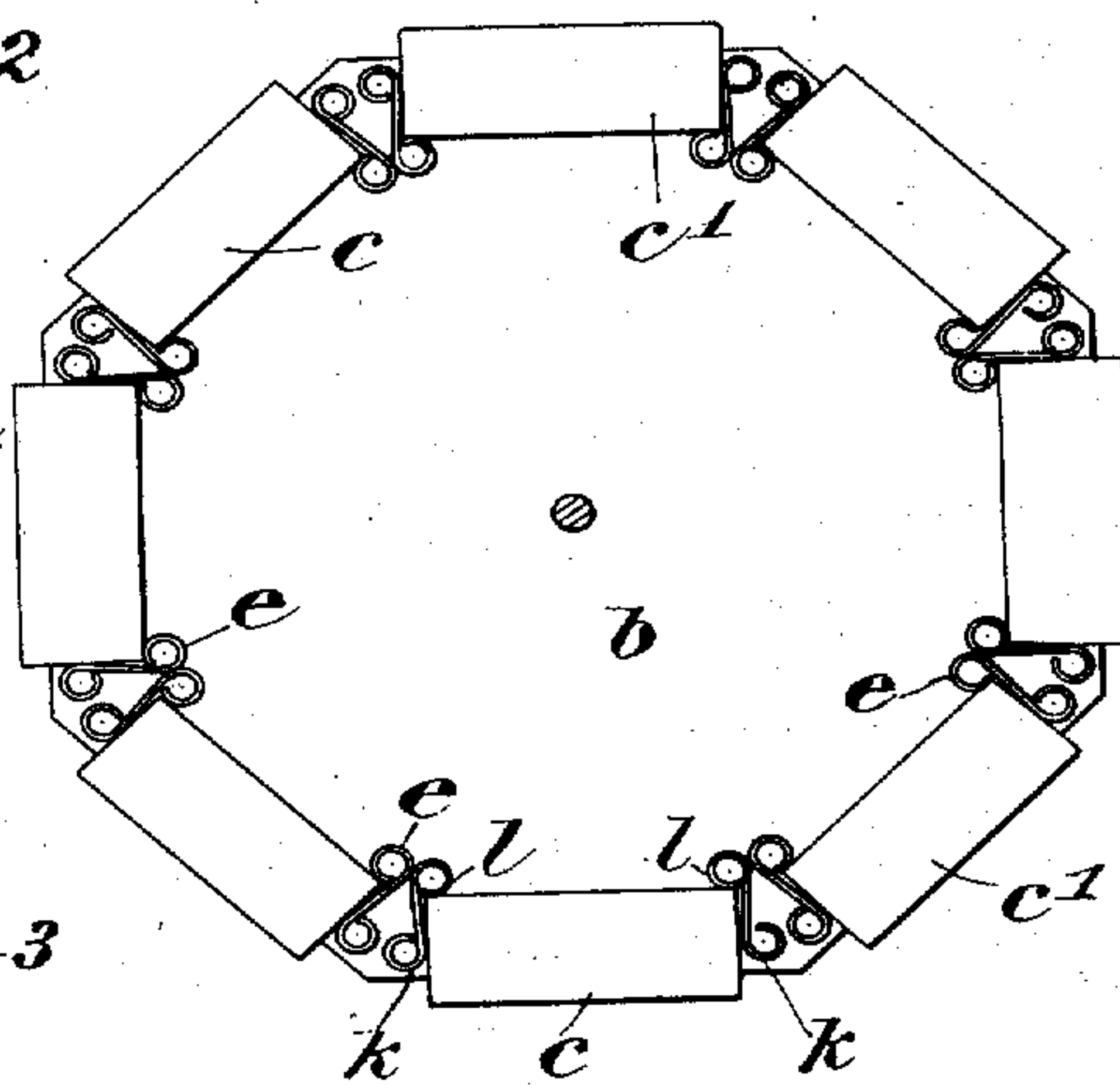


Fig. 3.



Witnesses:

Ernest L. Emery
A. E. Chuley

Inventor:

Herbert A. Warren
by Edmund L. Emery
Atty.

UNITED STATES PATENT OFFICE.

HERBERT A. WARREN, OF WOBURN, MASSACHUSETTS, ASSIGNOR TO
DIVINELL-WRIGHT COMPANY, OF BOSTON, MASSACHUSETTS, A
CORPORATION OF MASSACHUSETTS.

DISPLAY-CABINET.

SPECIFICATION forming part of Letters Patent No. 737,684, dated September 1, 1903

Application filed June 10, 1903. Serial No. 160,811. (No model.)

To all whom it may concern:

Be it known that I, HERBERT A. WARREN, citizen of the United States, residing at Woburn, in the county of Middlesex and State of Massachusetts, have invented an Improvement in Display-Cabinets, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

My invention consists in a new and improved construction of display-cabinet intended particularly for the display and storage of packaged goods, especially such as spices and other groceries which are customarily packed in boxes or small cartons.

My invention will be best understood from the following description, taken in connection with the accompanying illustration of one specific embodiment thereof, while its scope will be more particularly pointed out in the appended claims.

Referring to the drawings, Figure 1 is a side elevation of the embodiment of my invention herein described. Fig. 2 is a sectional plan view taken on the line 2 2, Fig. 1, and Fig. 3 is a similar section taken on the line 3 3, Fig. 1.

In the particular embodiment of my invention herein shown the cabinet consists of a cylindrical base member *a*, surmounted by the base-plate *b*, which is here shown as symmetrical in outline and as having eight sides, corresponding to the eight tiers of packages *c c'*, &c., which rest thereon. At a distance above the base-plate *b* sufficient to provide the necessary space for the height of the packaged tiers desired is the upper plate *d*. To provide suitable racks for the tiers of packages and to retain the individual packages in place and preserve their alinement, longitudinal gripping and alining members *e* are provided, which are secured at their lower ends to the base-plate *b* and at their upper ends to the plate *d*.

The plates *b* and *d* and the members *e* may be and preferably are formed of sheet metal and may be secured together by any suitable means, as by soldering the upper and lower ends of *e* to the adjacent plates *d* and *b*, respectively. In this manner a skeleton frame

is formed which has all the necessary strength and is adapted to fulfil the intended purpose, yet which has a minimum weight and is of an extremely inexpensive construction. The frame thus described constitutes one section of the display-cabinet. Another section may be and herein is added to the first by employing the plate *d* as a base-plate for the second section and providing suitable gripping and alining members *f f* and an upper plate *g* to form said section in a manner similar to that already described. This section may be so dimensioned as to provide storage for packages *x x* of a smaller or different size or shape from those intended to be stored or displayed in the lower section. Other sections also may be added to this cabinet in a similar manner, although in the embodiment herein illustrated I have shown the same to consist of but two sections, the lower one intended for packages of one size and the upper one intended for packages of smaller size.

The cabinet constructed as described may be, as herein shown, revolvably mounted upon a vertical shaft or spindle *h*, fixedly secured at its lower end to a foot-rest or base *i*, so that it may be revolved from one position to another to bring any desired tier of packages into view.

For the purpose of holding the packages in position the members *e* preferably consist of inversely-rolled pieces of sheet metal and present frictional gripping-surfaces at the point *k*, (see Fig. 3,) where they bear against the sides of the packages. The packages when in position are thus self-retained and are securely held in place. This is accomplished without the employment of the usual retaining-walls covering a portion of the front or face of the package, and the objection to this construction, which consists in its concealment of a portion of the descriptive matter intended to be displayed, is thereby obviated. By the construction herein described not only the entire face of the package is exposed, but a portion of each package side as well. The extension of the sides of the packages beyond the gripping-walls permit the same to be grasped by the hand, as between the thumb

and finger, whereby any intended package in a tier may be selected at will and conveniently withdrawn from its place.

To produce a yielding elastic grip on the
 5 part of the members *ee*, I preferably secure said members to the top and bottom plates *d* and *b* only at their inner ends, so that the outer ends or those portions adjacent the points of contact *k k* with the packages are
 10 given a certain freedom of movement, and they not only act as elastic or springing grips, but are also subject to manual adjustment by bending the same inward or outward if the recess afforded thereby does not exactly
 15 fit the package to be placed therein. The packages are retained in suitable alinement by the back-stop surfaces *ll*, which prevent their insertion beyond a certain depth. Each package is securely held on three sides in
 20 such a manner that the matter upon its face is wholly exposed and it may be grasped by its two exposed sides and withdrawn at will. The racks are preferably symmetrically disposed, so that the cabinet when filled is bal-
 25 anced both in bulk and appearance.

The upper section of the cabinet for the smaller packages (shown in section in Fig. 2) is provided with gripping and alining devices *ff*, which in their functions are sub-
 30 stantially the same as those already described, but which are of slightly different construction. Herein the gripping-surfaces *k* and the back-stop surfaces *l* are provided by suitably bent sheet-metal strips, while reinforcing
 35 tubes *m* are employed to give increased rigidity to the structure.

It will be obvious that my invention is in no respect limited to the specific details which I have herein shown, which may be varied

within wide limits without departing from the spirit thereof. 40

I claim—

1. A display-cabinet for packages comprising a revoluble frame having one or more sections, each section having a base and sym- 45 metrically-disposed vertical racks to receive the said packages in tiers, said racks presenting lateral frictional, gripping-walls to retain said packages in place, and inner walls to determine the position and alinement of said 50 packages.

2. A display-cabinet for packages having a plurality of racks to receive packages of uniform size in vertical tiers and presenting lateral frictional gripping-walls to retain said 55 packages in position.

3. A display-cabinet for packages having a plurality of racks to receive packages of uniform size in vertical tiers and presenting lateral, frictional gripping-walls engaging 60 the inner ends of the sides of said packages, whereby the faces and the outer ends of the sides of the packages are left exposed.

4. A revolving sectional display-cabinet for packages comprising superimposed sections 65 for packages of different size, each section having racks to receive the packages of the size corresponding thereto in vertical tiers, and means to retain the packages in position while exposing the matter upon the faces 70 thereof.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HERBERT A. WARREN.

Witnesses:

THOMAS B. BOOTH,
 EVERETT S. EMERY.

Correction in Letters Patent No. 737,684.

It is hereby certified that the name of the assignee in Letters Patent No. 737,684, granted September 1, 1903, upon the application of Herbert A. Warren, of Woburn, Massachusetts, for an improvement in "Display-Cabinets," was erroneously written and printed "Divinell-Wright Company," whereas the said name should have been written and printed *Dwinell-Wright Company*; and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 29th day of September, A. D., 1903.

[SEAL.]

F. I. ALLEN,
 Commissioner of Patents.

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