

No. 704,056.

Patented July 8, 1902.

J. S. LEWIS & D. F. GROW.
SHOW CASE.

(Application filed Nov. 19, 1900.)

(No Model.)

2 Sheets—Sheet 1.

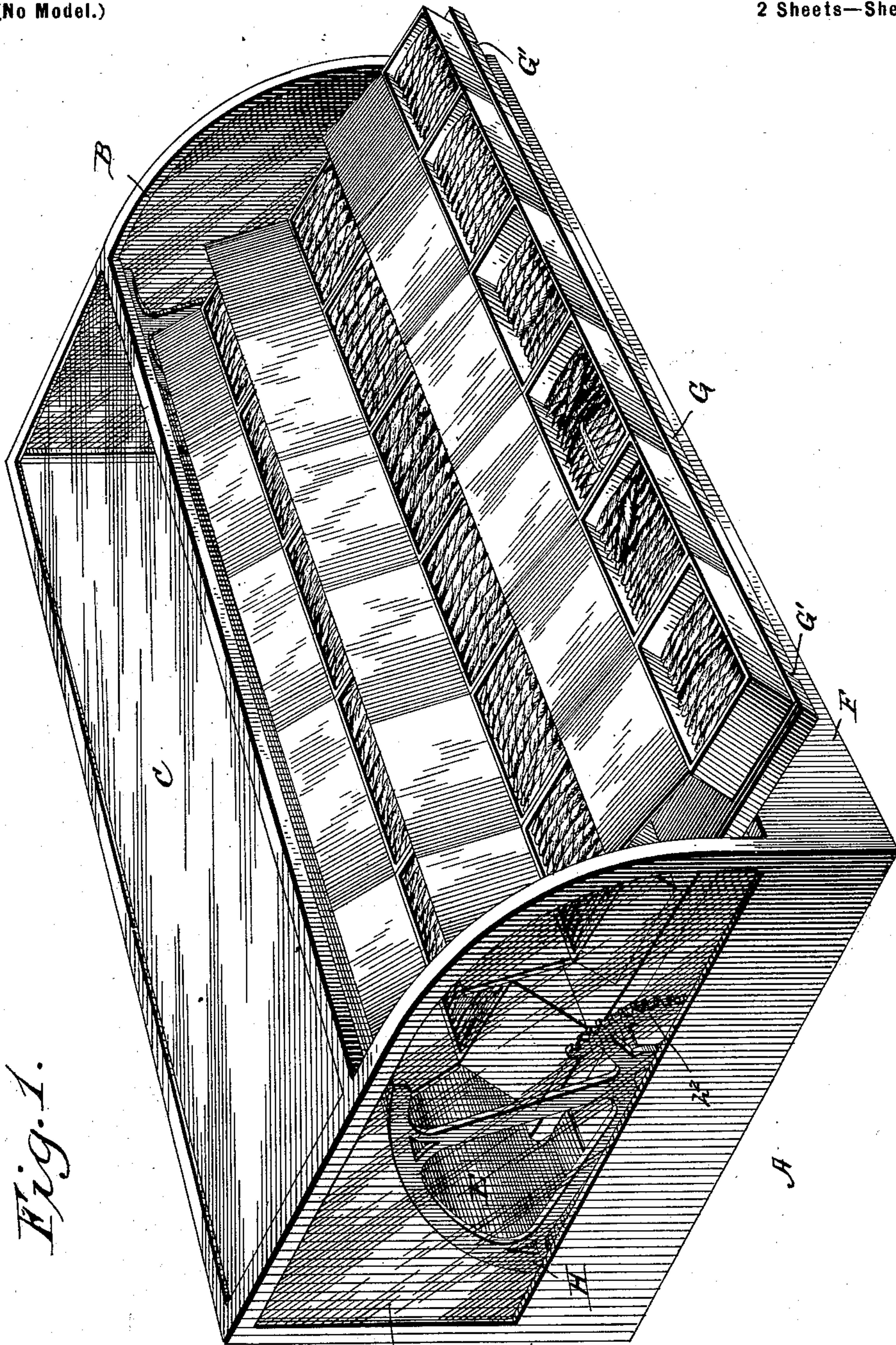


Fig. 1.

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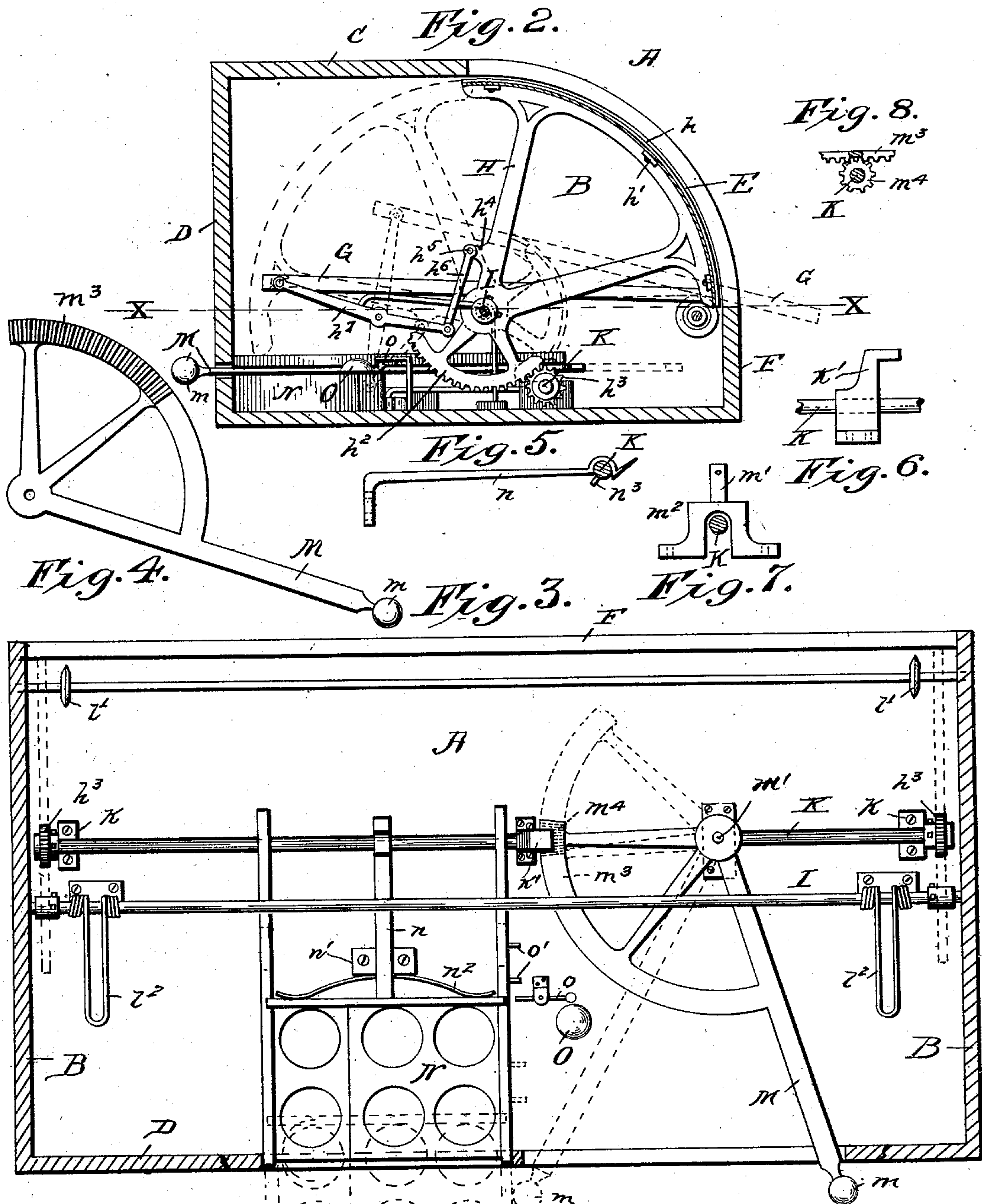
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UNITED STATES PATENT OFFICE.

JOHN S. LEWIS AND DANIEL F. GROW, OF WABASH, INDIANA, ASSIGNORS
OF THREE-TENTHS TO LUDWIG WOLF, OF WABASH, INDIANA.

SHOW-CASE.

SPECIFICATION forming part of Letters Patent No. 704,056, dated July 8, 1902.

Application filed November 19, 1900. Serial No. 37,015. (No model.)

To all whom it may concern:

Be it known that we, JOHN S. LEWIS and DANIEL F. GROW, citizens of the United States, residing at Wabash, in the county of Wabash and State of Indiana, have invented certain new and useful Improvements in Show-Cases; and we 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.

Our invention relates to store furniture, but more particularly to that class commonly known as "show-cases."

The object of our invention is to provide an apparatus of the said class which is simple in its construction, easy of operation, and above all durable and efficient.

A further object of our invention is to provide a show-case to be used in stores, whereby the goods are advantageously displayed and which furthermore enables the purchaser to select what he wishes and wait on himself.

A further object of our invention is to provide a show-case for displaying goods and arranged so that the customer selects the articles he wishes to purchase without said articles passing through the hands of the salesman.

A further object of our invention is to provide a show-case having the usual curved glass front, said case and the cash-drawer being so arranged that said drawer is opened every time a sale is made.

With these objects in view we have constructed a show-case which is particularly adapted to the use of tobacconists in their sale of cigars, the points of novelty of which will be fully set forth, and hereinafter more specifically set forth in the appended claims.

Referring to the accompanying drawings, Figure 1 is a perspective view of our show-case in an open position. Fig. 2 is a sectional view of the same in a closed position. Fig. 3 is a sectional view along the lines $x-x$ of Fig. 2. Fig. 4 is a plan view of the operating-lever. Fig. 5 is an elevation of the securing-spring catch. Fig. 6 is an elevation of the keeper-block k' . Fig. 7 shows the bearing and bifurcated bearing-block of the operating-lever. Fig. 8 is a fragmentary detail

view of the segmental bracket m^3 and bevel gear-wheel m^4 in side elevation.

Referring to the drawings by letters, A is the show-case, provided with the sides B, top C, and back D, the same being of glass or other suitable material.

E is the movable curved glass front, which extends from the top C to the vertical front F, said front being the height of the false floor or bottom G. The movable glass front E is supported by the bracket H and fits loosely in a groove therein, a pad or filling h and the set-screws h' firmly securing the same. The bracket H is secured by a key, set-screw, or other suitable device to the rod I, which is journaled in both sides of the case, said rod I being constructed of wood or other suitable material. The bracket H is provided with a smooth toothed arc h^2 integral therewith, which meshes with the toothed gear-wheel h^3 , which is secured to the main operating-rod K in any suitable manner. Said rod K is journaled to the bottom of the case in the blocks k , located at both ends thereof. On the bracket H is the lug h^4 , provided with a small hole h^5 , to which the small arm h^6 is pivotally attached. Connecting with this arm is a lever of the first class h^7 , fulcrumed to the side of the case in such a manner that the arm connecting with the arm h^6 is the shorter.

Pivotally connected to the longer arm of the lever h^7 is the false bottom G, upon which the goods are arranged and displayed. Said false bottom is provided with two parallel V-shaped grooves G' , in which the rollers l' travel. These rollers are located near the front of the case and support the false bottom G.

At both ends of the case are arranged in any convenient and approved manner springs l^2 , continually bearing upward against the under side of the false bottom G for the purpose of compensating the weight of the stock or goods on said false bottom.

M is the operating-lever, preferably provided with a knob m and journaled on the pin m' , Fig. 7, said pin being secured in the block m^2 , which straddles the operating-rod K. Said operating-lever M is provided with a segmental bracket m^3 , cast integrally there-

with and toothed on its under side in order to mesh with a bevel gear-wheel directly underneath. (Shown in dotted lines in Fig 3.) Said wheel is secured in any suitable manner
 5 to the operating-rod K. Adjacent to and overlapping the segmental bracket m^3 is a block k' , which acts as a bearing for the operating-rod K, and the small lateral projection keeps the segmental bracket and the bevel-
 10 gear always in mesh.

N is the cash-drawer, secured in any suitable manner with a spring-catch n , said catch being adapted to engage the operating-rod K.

Secured to the bottom of the case and a
 15 short distance behind the cash-drawer is a block n' , holding a spring n^2 , said spring continually bearing against the back of the drawer and tending to push it open. Directly under the spring-catch n , and secured
 20 to the operating-rod K, is a pin n^3 , Fig. 5. Between the operating-lever and the cash-drawer is a bell or gong O and a clapper o , designed to be operated by lugs o' , secured to the cash-drawer N.

25 Having thus described the several parts of our invention, its operation is as follows: When the operating-lever is moved to the left, the operating-rod K is turned in the direction of the hands of a watch. The pin n^3 ,
 30 secured thereon, trips the spring-catch n , and the spring n^2 pushes open the drawer. At the same time the gear-wheels secured to the ends of the operating-rod K, being in mesh with the toothed arc h^2 of the bracket H,
 35 move said bracket carrying the curved glass front in an opposite direction to the hands of a watch, thus opening the entire front of the show-case. This backward movement of the bracket H pushes down the short arm of
 40 the lever h^1 . This reverses the direction of the longer arm, and the false bottom G being secured thereto is raised and pushed forward to a point outside the case, said bottom running out on the rollers l' , thus allowing
 45 the purchaser himself to select what he wishes and displaying the goods to an exceptional degree.

It must be understood that the mechanism described is duplicated at both ends of the
 50 show-case.

As aforesaid, this show-case is particularly adapted for the sale of cigars, although different classes of merchandise, such as pipes and other articles of manufacture, can be

used and profitably displayed therein; and 55 we do not wish to be understood as limiting ourselves to the exact construction herein set forth, as various slight changes might be made therein which would clearly fall within the limit and scope of our invention. Conse- 60
 quently we consider ourselves entitled to all such changes, and

What we claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a show-case the combination of a movable front, a movable bottom secured to said case, and connected to said front; an operating-rod under said bottom adapted to operate said movable front and movable bottom, intermediate mechanism, between said operating-rod and said movable front and said movable bottom, whereby said bottom is extended and tilted and said front raised, substantially as described. 65 70

2. In a show-case the combination of a movable front, a movable bottom secured in said case, an operating-rod under said bottom whereby said movable front and movable bottom are simultaneously operated intermediate mechanism, an operating-lever adapted 80 to turn said operating-rod, a spring-catch adapted to engage said operating-rod, a cash-drawer secured to said spring-catch, and means for releasing said drawer by said operating-rod substantially as described. 85

3. In a show-case, the combination of a movable front, a bracket supporting said front, a toothed arc integral therewith, an operating-rod adapted to move said toothed arc, means on said rod for coöperating with said toothed arc, a movable bottom connected to said bracket, and means for simultaneously moving said front and bottom, substantially as described. 90

4. In a show-case, the combination of a movable front, means for supporting said front, a movable bottom connected to said supporting means, means for extending and tilting said bottom, and simultaneously moving said front. 95 100

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

JOHN S. LEWIS.
 DANIEL F. GROW.

Witnesses:

JOHN H. BICKEW,
 LUDWIG WOLF.