

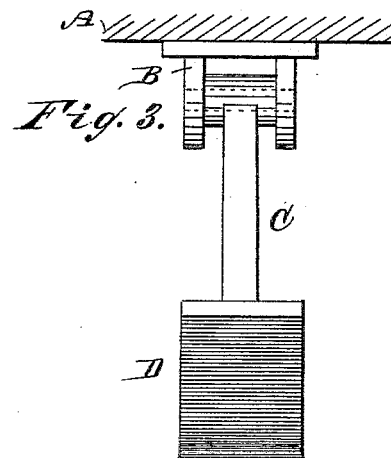
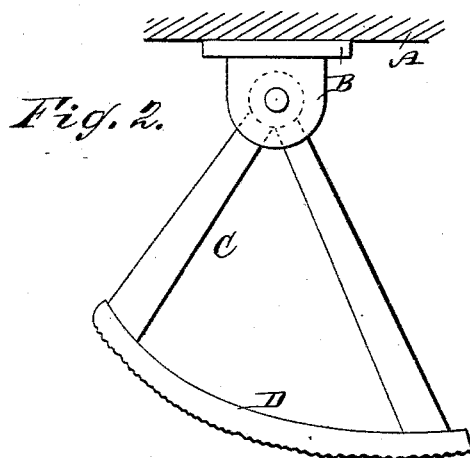
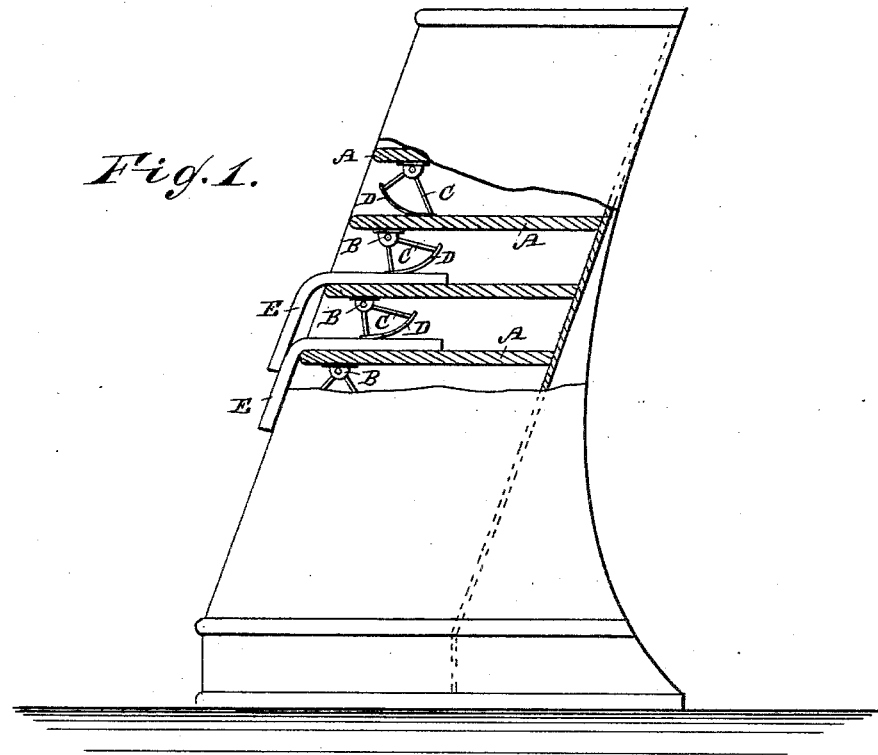
(Model.)

N. ROBERTSON.

SHELF FOR EXHIBITING GOODS.

No. 303,886.

Patented Aug. 19, 1884.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

NORMAN ROBERTSON, OF KINCARDINE, ONTARIO, CANADA.

## SHELF FOR EXHIBITING GOODS.

SPECIFICATION forming part of Letters Patent No. 303,886, dated August 19, 1884.

Application filed October 23, 1883. (Model.)

*To all whom it may concern:*

Be it known that I, NORMAN ROBERTSON, of Kincardine, in the Province of Ontario and Dominion of Canada, have invented new and Improved Shelves for Exhibiting Goods, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved device of simple construction for holding pieces of dry-goods, prints, &c., on shelves in such a manner that the goods can hang down from the front edge of the shelves.

The invention consists in the combination, with a shelf, of one or more eccentric V-shaped clamps pivoted to the under side of the shelf, between which clamp and the next lower shelf the goods are held.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is an end elevation of a series of shelves provided with my improvement, parts being broken out and others shown in section. Fig. 2 is a side view of the pivoted eccentric clamp. Fig. 3 is an end view of the same.

A series of shelves, A, are arranged above each other, the front edge of each shelf preferably projecting slightly in advance of the front edge of the next shelf directly above it.

To the lower or under surface of each shelf A, one, two, or more jaw-plates, B, are secured, to which eccentric or cam clamps C are pivoted in such a manner that they can swing in the transverse direction of the shelf. The eccentric clamp consists of a V-shaped frame pivoted at the apex, which frame has the free ends of its shanks united by a curved plate, D, which is eccentric in relation to the apex of the V-shaped frame. The outer surface of the curved plate D is ribbed, grooved, or corrugated transversely, or is serrated or roughened

in any other suitable manner. When the clamp hangs freely, the inner end of the curved plate D will be on or directly above the shelf below the one to which the clamp is pivoted, and the front end of the curved plate is held some distance above the shelf. If a piece of goods is to be held on the shelf, the corresponding clamp is swung inward, whereby the inner end of the plate D will be swung upward. The goods B are placed on the shelf and the clamp is released. It swings downward and toward the front, and the inner end of the plate D rests on the goods and clamps them between the said plate D and the shelf. The pressure of the clamp increases as the weight of the goods draws or swings the clamp in the direction toward the front edge of the shelf. The piece of goods can be held by one or more clamps, according to the size of the said piece. If the goods are to be removed, all that is necessary is to swing the corresponding clamp backward, whereby the goods will be released. The pieces of goods hang down over each other, and a part of each will be exposed. Entire pieces or remnants can be held by means of the clamps. The rear shanks of the frame C are preferably weighted more or less to cause them to swing into the vertical position.

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

In shelves for exhibiting goods, the combination, with two or more shelves arranged one above the other, of one or more eccentric V-shaped clamps, each having a curved plate, D, the clamps being pivoted to the under side of the shelves, and adapted to hold the goods on the shelf below, substantially as herein shown and described.

NORMAN ROBERTSON.

Witnesses:

W. JAS. WATSON,  
JOSEPH MCKINNEY.