(No Model.) 4 Sheets—Sheet 1.

E. BROCKMANN.

SHOW STAND.

No. 447,658. Patented Mar. 3, 1891.

Fig. 1.

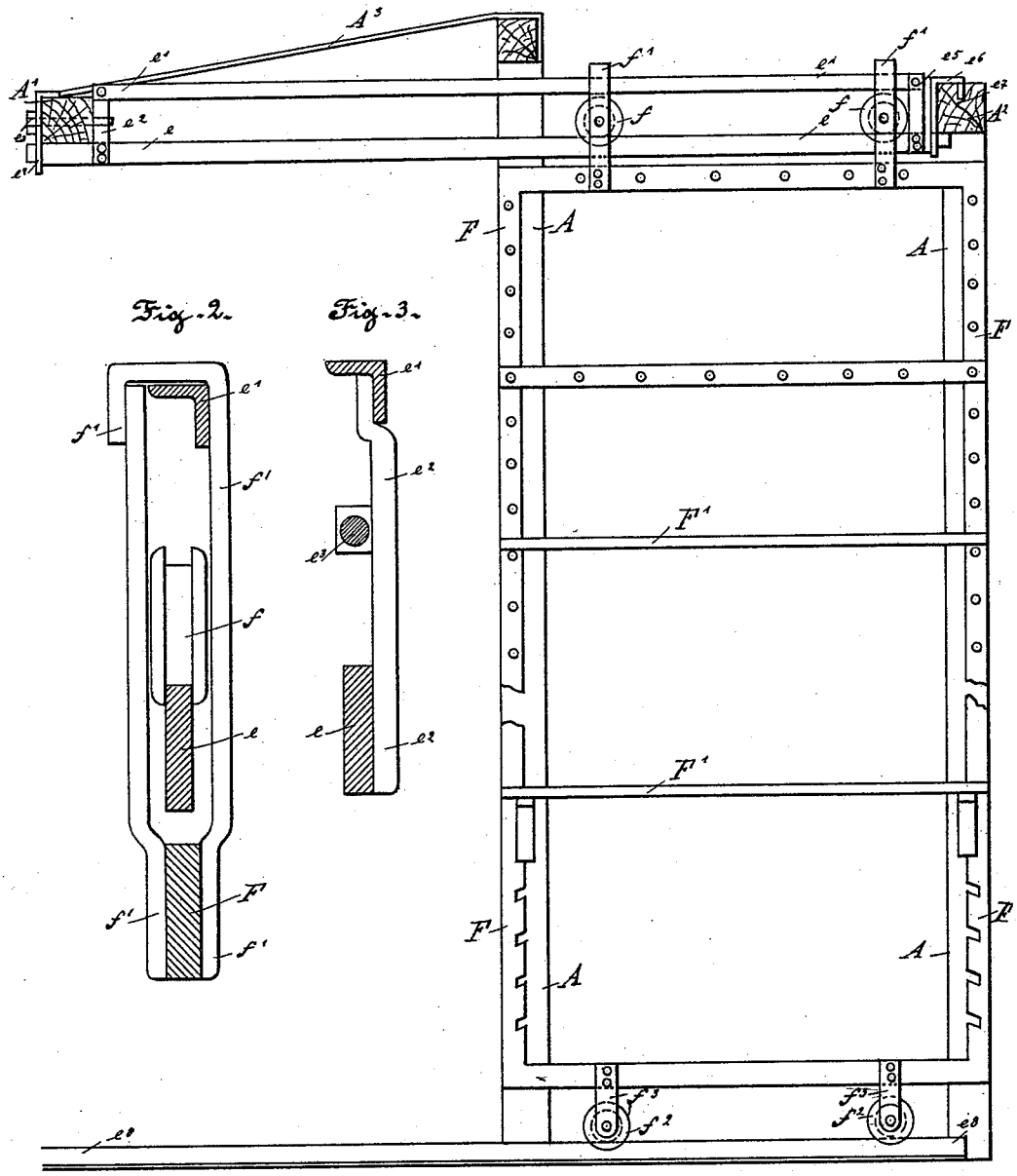


Fig. 2.

Fig. 3.

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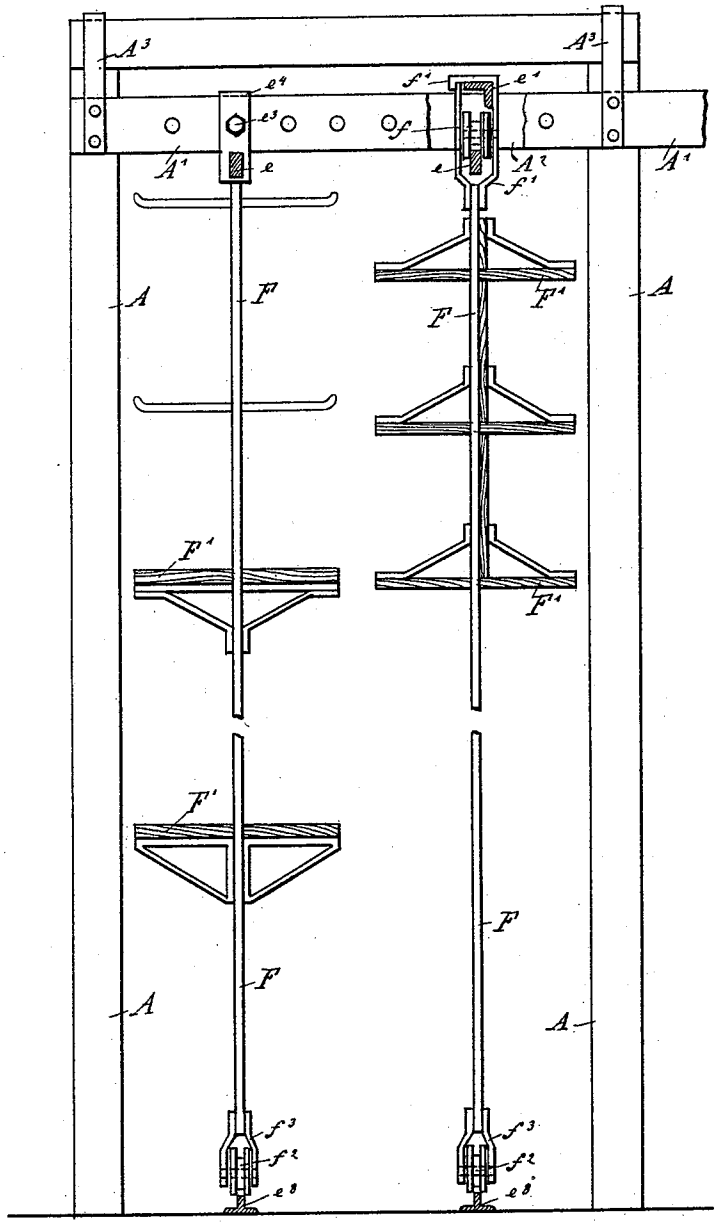
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Fig. 4.



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Fig. 5.

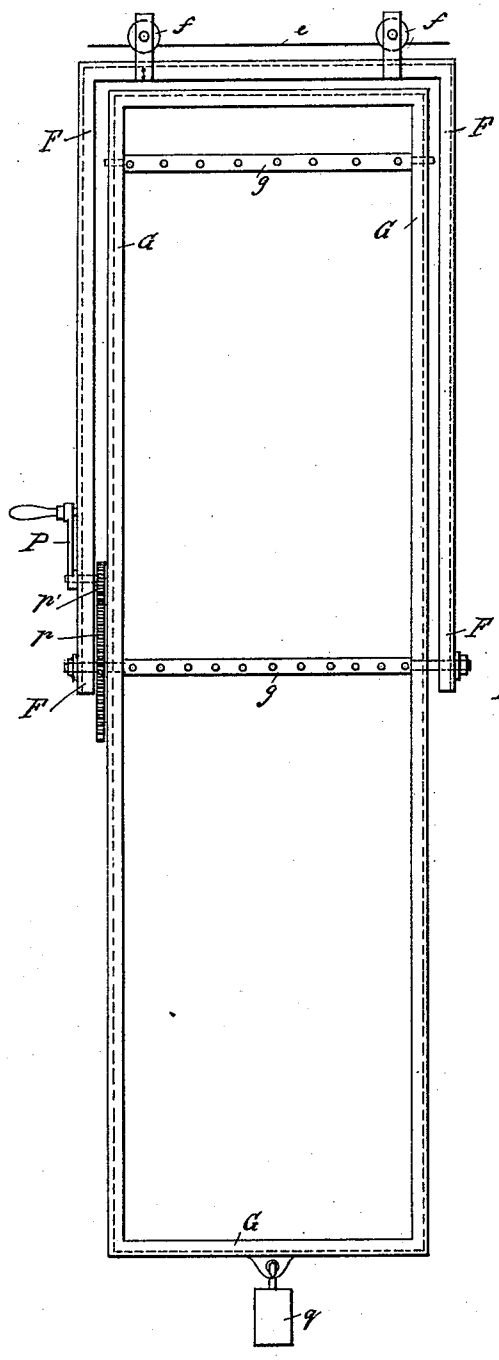
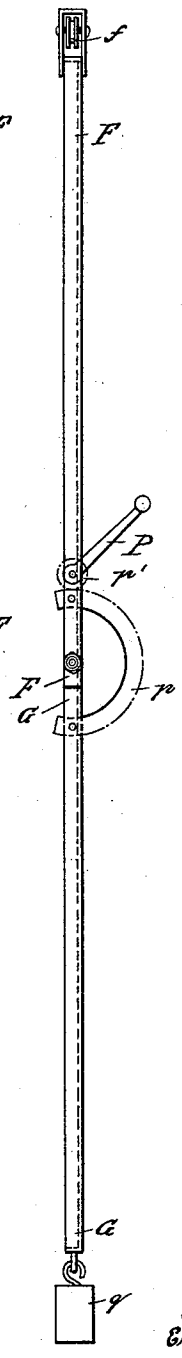


Fig. 6.



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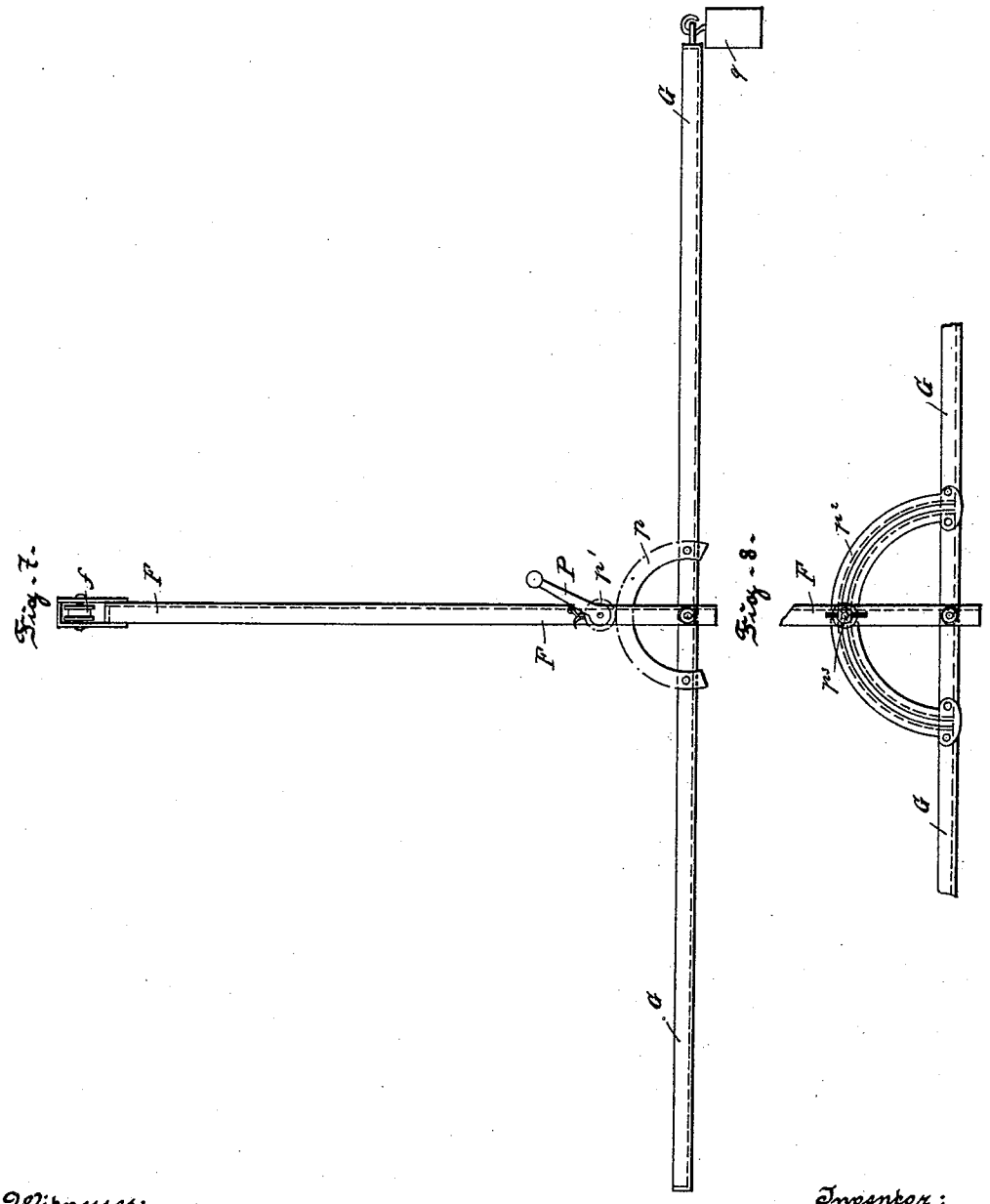
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UNITED STATES PATENT OFFICE.

ERNST BROCKMANN, OF ELLRICH, GERMANY.

SHOW-STAND.

SPECIFICATION forming part of Letters Patent No. 447,658, dated March 3, 1891.

Application filed July 23, 1890. Serial No. 359,653. (No model.)

To all whom it may concern:

Be it known that I, ERNST BROCKMANN, a subject of the King of Prussia and Emperor of Germany, a resident of Ellrich, in the Province of Saxony, German Empire, have invented certain new and useful Improvements in Show-Stands, of which the following is an exact description.

The object of my invention is to provide a stand for exhibiting objects of sale in show-windows or shops, with an especial view to economy of space and facility in reaching the articles.

In order to make my invention more clear, I refer to the accompanying drawings, in which similar letters denote similar parts throughout the several figures.

Figure 1 is an end elevation of the stand. Fig. 4 is a front elevation, partly in section, of Fig. 1. Fig. 2 is a section through the top guide-rail, drawn to a larger scale. Fig. 3 is a joint at the end of top guide-rail. Fig. 5 is an end elevation of the stand, showing a modified form of the displaceable frame. Fig. 6 is a front view of the same frame, the shelf of it being in vertical position. Fig. 7 is another front view of the same frame, the shelf being in horizontal position. Fig. 8 is a modification of the fastening device for the shelf.

Any number of shelves F′, Figs. 1 and 4, according to requirement, are secured by any means to a frame F, Figs. 1 and 4, the whole frame adapted to be drawn out. For this purpose guide-rails *e e* are attached to the upper part of the frame A and project forward. These projecting rails are supported by a cross-piece A′, which is stayed to the main frame A by a tie A^3, hooking over a beam on the said frame A and attached to the cross-bar A′ by a bolt e^3. The back ends of those rails are supported in a suspending-hook e^6, suspended on the back cross-bar A^2 of the frame A.

The frames F F contain the guide-irons *f′ f′*, in which the rollers *f f* run on rails *e e*. In order that the frames may be guided perfectly securely on being drawn out, the angle-irons *e′ e′*, running parallel to and lying over the guide-rails *e e*, are attached at their front ends to the cross-bar A′ and rail *e* by means of bolts e^3 and irons e^2, Fig. 3, said iron e^2 having a projection through which bolt e^3 passes, while the back ends of these angle-irons are attached to the guide-rails by straps e^5. The guide-irons *f′* of the frames F pass over this angle-iron *e′*, thus insuring a safe guiding of the frames F. In order to relieve the top projecting guide-bar *e* of the weight of the whole frames, bottom or ground rails e^8 are provided, on which the frames run by means of rollers f^2 in straps f^3. The shelves F′ may be made vertically adjustable sidewise, the hooks e^6 being movable in their grooves e^7 at the back, while the front cross-beam A′ is provided with holes, Fig. 4, into which the bolts e^3 may be placed. The ground-rails need only be shifted into the required position, and, if desirable, screwed onto the floor.

Instead of providing the frames with shelves, they may be modified in such a manner that they contain one large shelf or frame, which may be made to rotate round a horizontal axle, Figs. 5 to 8, such as frame G, Fig. 5, which may stand on end in the main frame, and on the articles being inspected the frame F will be run or drawn out and the shelf or frame G turned into a horizontal position by means of the cogged segment *p* and pinion *p′*, turned by handle P. The frame G will have a counterbalance-weight *q* on its lower end to hold it in its vertical position. Instead of a cogged segment, a segment p^2, provided with a slit, may be substituted and the frame fixed in the same by means of a set-screw p^3.

Having thus fully described my invention, what I desire to secure by Letters Patent of the United States is—

The combination of a frame A, having top guiding-rails *e*, guiding angle-irons *e′*, projecting out in front and connected to said frame and cross-bar A′ by straps e^3 e^4 e^5 and bolt e^3, tie A^3, and hook e^6 of the frames F F, containing adjustable shelves F′ F′ and supported on upper guide-rails *e e′* by rollers *f f* and straps *f′ f′* and on ground-rail e^8 by rollers f^2 f^2, said frames, together with guide-rails, being adjustable sidewise in frame A A′, in the manner described.

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

ERNST BROCKMANN.

Witnesses:
ADOLF ATOMANN,
WM. KETTLER.