(No Model.)

C. DENECKE.

EXTENSIBLE STAND.

No. 314,808. Patented Mar. 31, 1885.

Fig. 1.

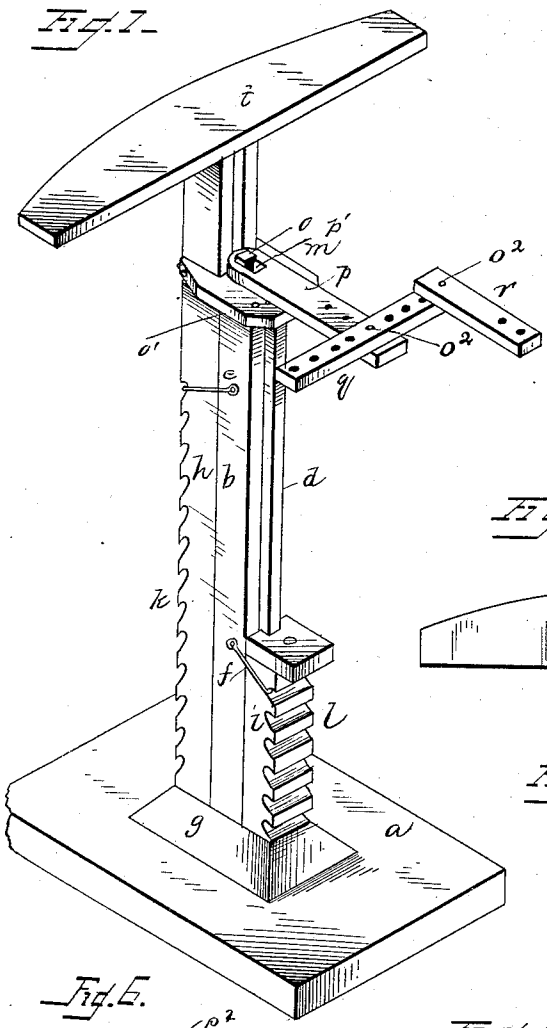


Fig. 2.

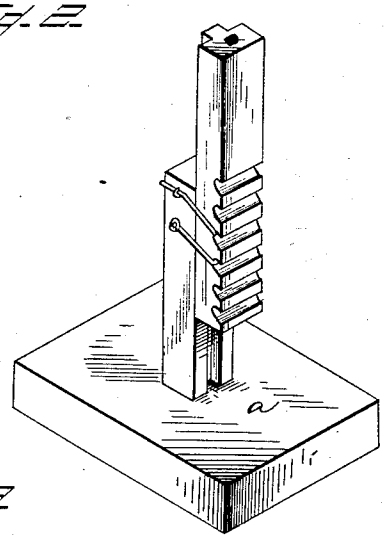


Fig. 3.

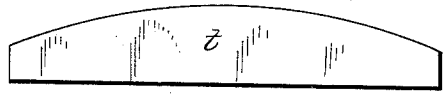


Fig. 4.

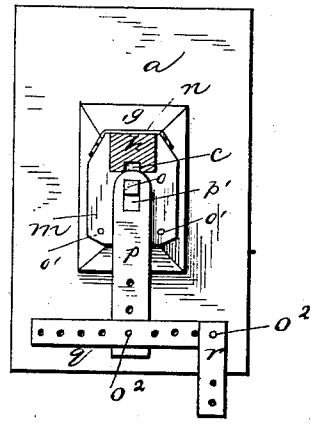


Fig. 5.

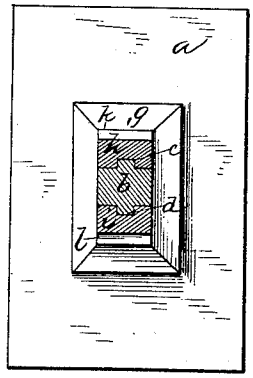
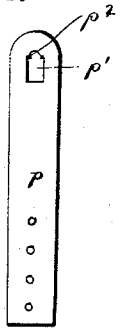


Fig. 6.



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UNITED STATES PATENT OFFICE.

CHARLES DENECKE, OF TOLEDO, OHIO.

EXTENSIBLE STAND.

SPECIFICATION forming part of Letters Patent No. 314,808, dated March 31, 1885.

Application filed February 28, 1884. (No model.)

To all whom it may concern:

Be it known that I, CHARLES DENECKE, a citizen of the United States, residing at Toledo, in the county of Lucas and State of Ohio, have invented a new and useful Extensible Stand, of which the following is a specification, reference being had to the accompanying drawings.

This invention has relation to extensible stands for displaying goods and other articles; and it consists in the construction and novel arrangement of parts, as will be hereinafter fully described, and particularly pointed out in the claims appended.

Figure 1 is a view in perspective of a double extensible stand and movable fixtures attached thereto after the design of my invention. Fig. 2 is a perspective view of a single extensible stand. Fig. 3 is a plan view of the top piece. Fig. 4 is a horizontal sectional view above the bearing-plate, showing the square-headed bolt rising therefrom, and Fig. 5 is a horizontal section through both vertical extensions and the stem, showing the tongues and grooves. Fig. 6 is a detailed plan view of the swinging arm.

Referring by letter to the accompanying drawings, *a* designates the base-plate, which is adapted to be secured to the floor of the place in which the stand is to be used. From this base-plate *a* rises the main stem *b*, which is provided with tongues *c* and *d* on opposite sides, extending throughout its entire length, as shown. This stem *b* is also provided with two pivoted wire bails, *e* and *f*, one near its upper end and the other near its lower end or below its middle. These are drop-bails, and work on opposite sides of the stem *b*, as shown.

Upon the base *a*, and around the lower end of the stem *b*, is built a seat, *g*, rectangular in form, which forms a recess on each side of the stem, in which the lower ends of the longer and shorter rack-extensions *h* and *i* are stepped when they are in their normal positions. The faces of the extensions *h* and *i* are provided with grooves for the reception of the tongues *c* and *d* on the stem *b*. The opposite faces from the grooves of the extensions *h* and *i* are provided with racks *k* and *l*, which are engaged, respectively, by the drop-bails *e* and *f* to hold the extensions to their adjustments.

The upper end of the stem *b* is provided with a bearing-plate, *m*, which is recessed in one side for the passage of the longer extension *h*, and provided at the mouth of the recess with a transverse guard-wire, *n*, to guide said extension in its ascent and descent. This bearing-plate *m* is provided with a vertical square-headed bolt, *o*, and near its end with a series of vertical perforations, *o'*, for the reception of pins o^2 on some of the movable fixtures that are to be attached thereto when desired.

p represents a swinging arm which is pivoted on the plate *m*. This arm is provided at its free end with a series of vertical perforations. The square-headed bolt *o* forms the pivot for the arm *p*, and in order to place this arm in position on said bolt I provide the arm, at its pivotal end, with a rectangular slot, *p'*, which is equal in width to the width of the bolt-head, but is somewhat longer than it is wide. At the rear end of the slot *p'* is formed a semicircular integral slot, p^2, which corresponds to the diameter of the shank of the bolt *o*. The pivotal end of the arm *p* is rounded, as shown. To place the arm *p* in position on the bolt, the said arm is placed parallel to the grooved face of the extension *h*, at right angles to the position shown at Fig. 1. The slot *p'* is passed down over the square head of the bolt, and then the arm is drawn outwardly, which causes the shank of the bolt to enter the semicircular slot p^2. The space from the center of this bolt to the face of the extension *h* is equal to the distance from the center of the semicircular slot to the rounded end of the arm, and it follows that, having thus secured the arm upon the bolt, the free end of the arm may be made to describe a half-circle, and may rest at any point within the limits thereof.

Additional fixtures—such as *q* and *r*—provided with perforations and pins for attaching them to the swinging arm and to each other, are provided in order to extend the display laterally.

The tops of the rack-extensions *h* and *i* are provided with vertical holes, in which the pins for attaching the top plates, *t*, or other movable fixtures thereto are seated.

In the single extension-stand there is but

one groove in the stem, and but one tongued rack is employed. The bail and guard are the same as in the longer extension in the double stand, except there is no bearing-plate, and the guard extends around the upper end of the stem.

It will be observed that when the extensions are elevated the bails hold them so rigidly in place that the stem and rack-extensions operate as if virtually made of one piece.

The device is cheap, simple, and efficient for the purposes for which it is intended. It is susceptible of numerous changes, and is not likely to get out of order.

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

1. In an extensible stand, the combination, with the base having the vertical stem provided with vertical tongues on opposite faces, and pivoted drop-bails working in opposite directions, of the longer and shorter grooved rack-extensions on opposite sides of the stem, and top plates for said extensions, substantially as specified.

2. In an extensible stand, the combination, with the base-plate having the vertical stem rising therefrom, provided with tongues on its opposite faces, and pivoted bails at its sides working in opposite directions, of the longer and shorter grooved extension-racks, the recessed and perforated bearing-plate provided with the guard-wire and the vertical square-headed bolt on the end of the tongued stem, and the swinging arm having the rectangular opening and integral slot at one end, and a series of perforations near the other end, substantially as specified.

3. In an extensible stand, the combination, with the base-plate having the vertical stem rising therefrom, and provided with the bearing-plate at its upper end, having the square-headed vertical bolt, of the swinging arm having the rectangular opening and the integral slot near one end and the series of perforations near the other end, and a series of perforated fixtures having attaching-pins, whereby they may be secured to the swinging arm and to each other, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence two witnesses.

CHARLES DENECKE.

Witnesses:
J. H. REUSLER,
CHAS. J. KIRSCHNER.