(No Model.)

E. E. CASSELL.

SHELF SUPPORT.

No. 278,506. Patented May 29, 1883.

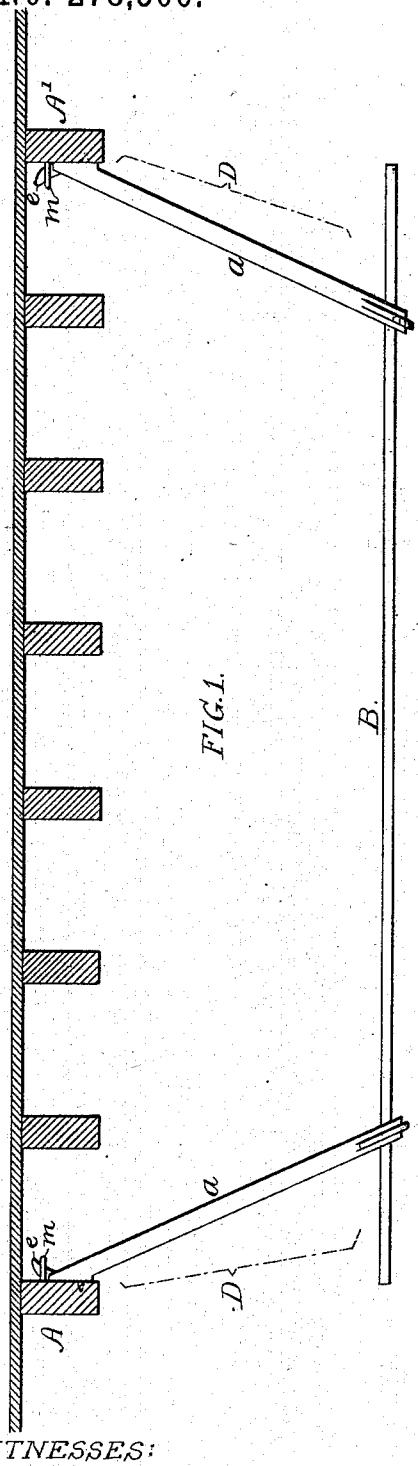


FIG. 1.

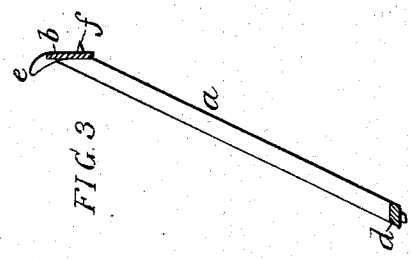


FIG. 3.

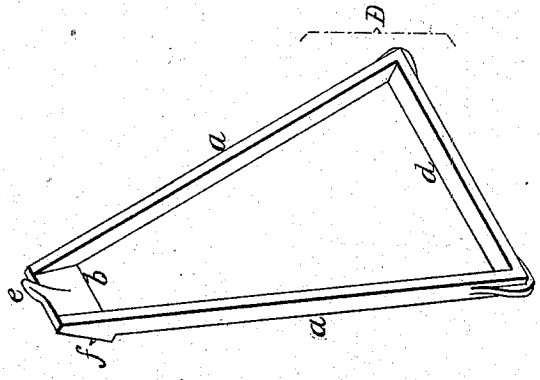


FIG. 2.

WITNESSES:

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UNITED STATES PATENT OFFICE.

EDWIN E. CASSELL, OF PHILADELPHIA, PENNSYLVANIA.

SHELF-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 278,506, dated May 29, 1883.

Application filed December 11, 1882. (No model.)

To all whom it may concern:

Be it known that I, EDWIN E. CASSELL, a subject of the Queen of Great Britain and Ireland, and a resident of Philadelphia, Pennsylvania, U. S. A., have invented an Improved Shelf-Support, of which the following is a specification.

My invention consists of a simple device, fully described hereinafter, for readily suspending shelves from joists.

In the accompanying drawings, Figure 1 is a side view of the shelf-supporter; Fig. 2, a perspective view of one of the hangers, and Fig. 3 a sectional view of the same.

A A′ represent the joists of a floor, from which the shelf B has to be suspended, and D D the supporting-hangers, each of which, as shown in Fig. 2, consists of two inclined bars, *a a*, connected together at the top by a plate, *b*, and below by the cross-piece *d*, the whole being cast or forged in one piece. The bars *a a* are far enough apart where they meet the cross-piece *d* to admit the shelf B, and the plate *b* is provided at the top with a hook, *e*, and at the rear with one or more spurs, *f*, both hook and spurs being cast on the hanger. A staple, *m*, is driven into or otherwise secured to each of the joists A A′ for the reception of the hook *e* of one of the hangers, and when the latter are in their places they will occupy the positions shown in Fig. 1, the shelf B resting on the cross-bars of the hangers, and any weight placed on the shelf tending to force the spurs into the joists and to render the attachment of the hangers to the joints more secure, owing to the inclination of the frame formed by the bars *a* and *d*.

Ordinary screw-eyes may be used in place of staples for the reception of the hooks *e*, if desired.

I claim as my invention—

1. The within-described shelf-hanger D, the same consisting of the plate *b*, provided with a hook, *e*, the bars *a a*, inclined in respect to the said plate, and the cross-bar *d*, all being made in one piece, substantially as set forth.

2. The hangers D D, each composed of the plate *b*, provided with a hook, *e*, and spur or spurs *f*, the inclined bars *a a*, and cross-bar *d*, in combination with the shelf B and staples or eyes *m m* in the joists to which the hanger is attached, all substantially as set forth.

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

EDWIN E. CASSELL.

Witnesses:
HARRY DRURY,
HARRY SMITH.