

(No Model.)

H. KORELL.  
FOLDING SHELF.

No. 475,323.

Patented May 24, 1892.

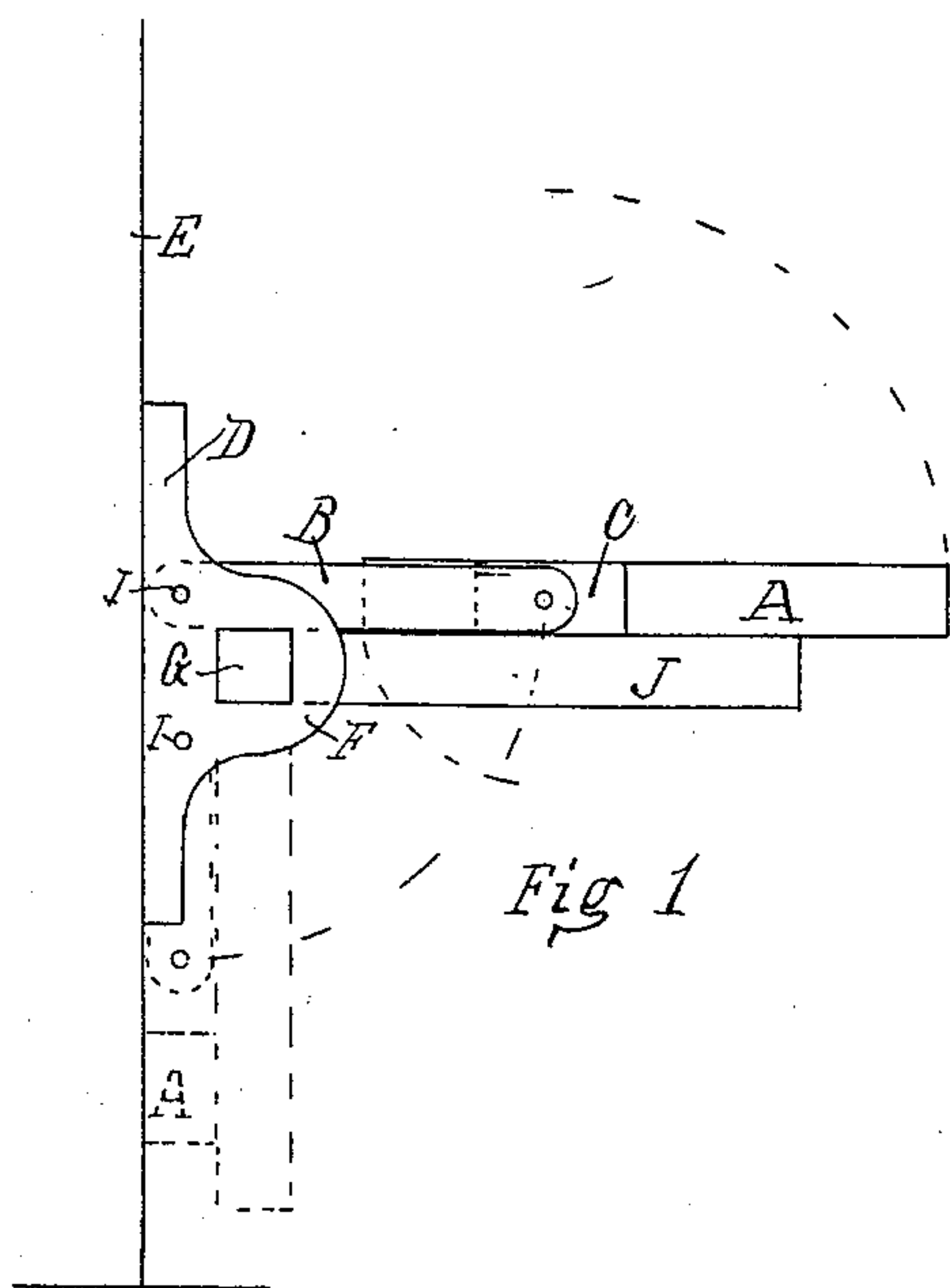


Fig 1

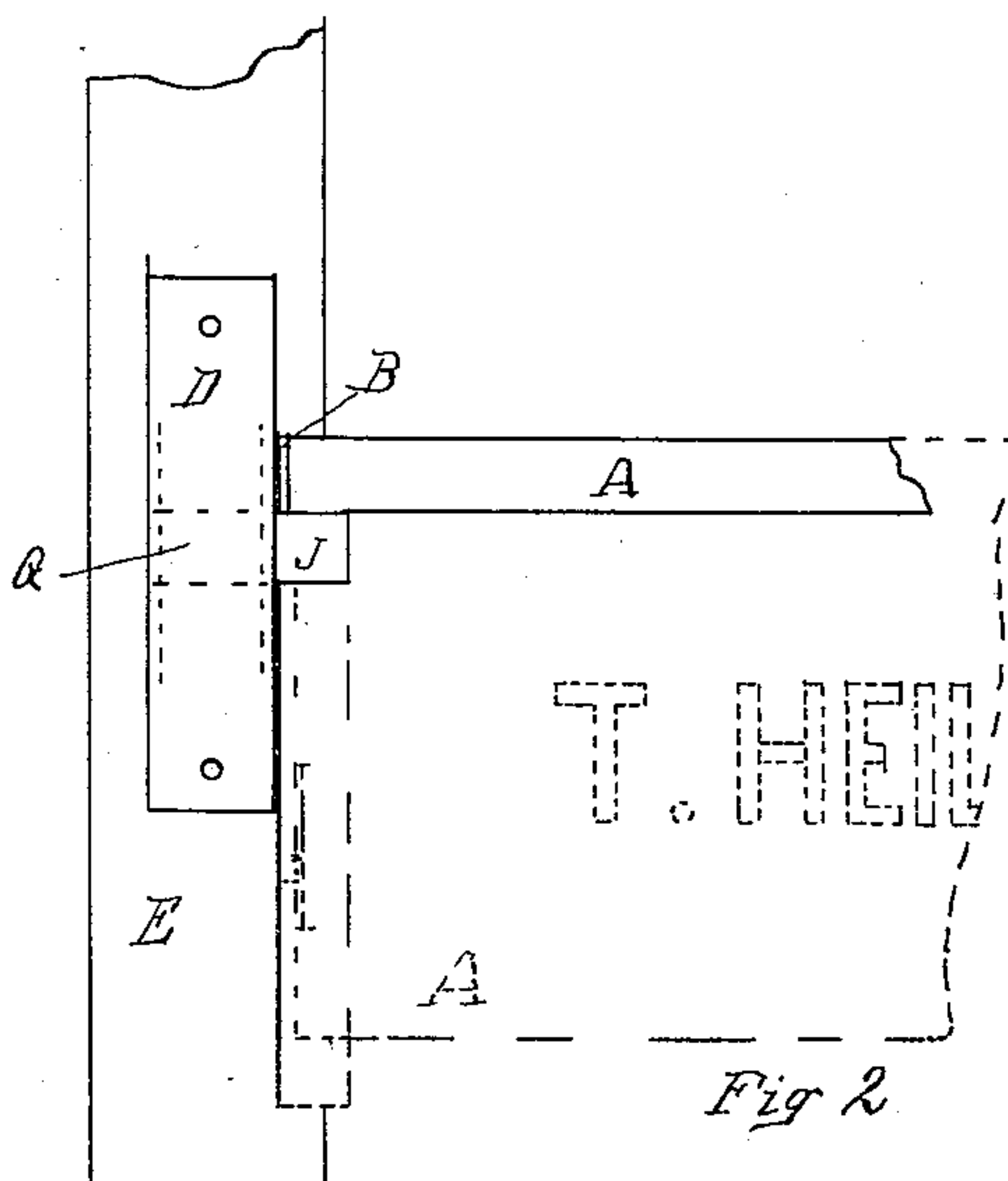


Fig 2

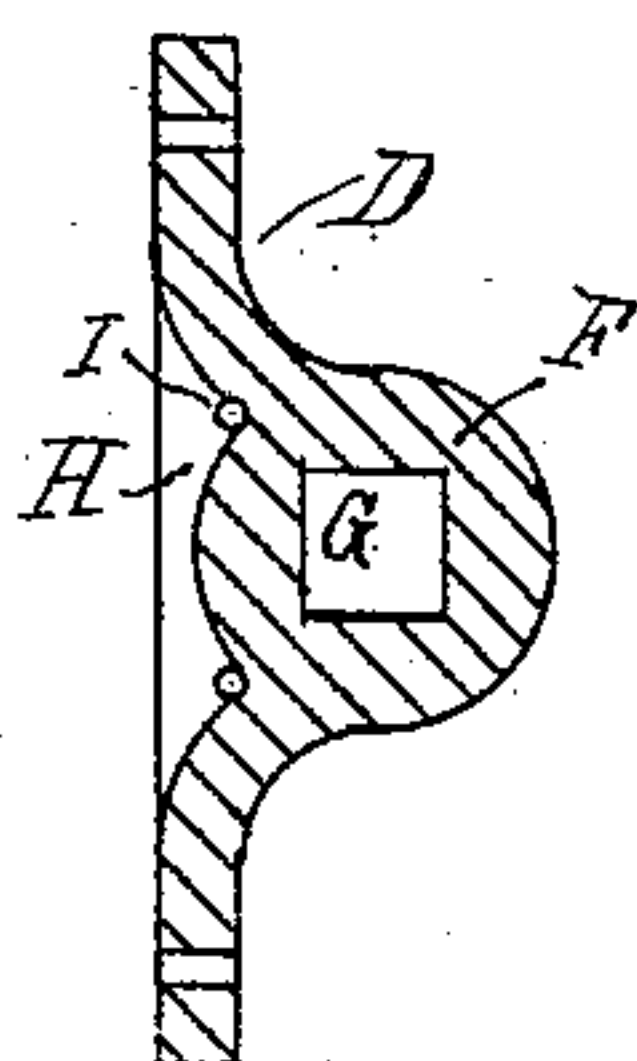


Fig 4

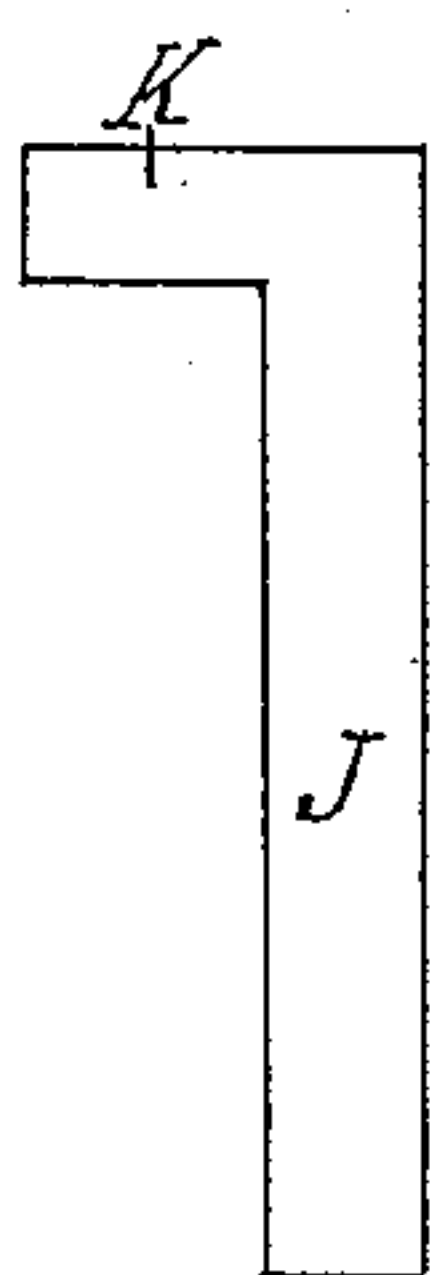


Fig 5

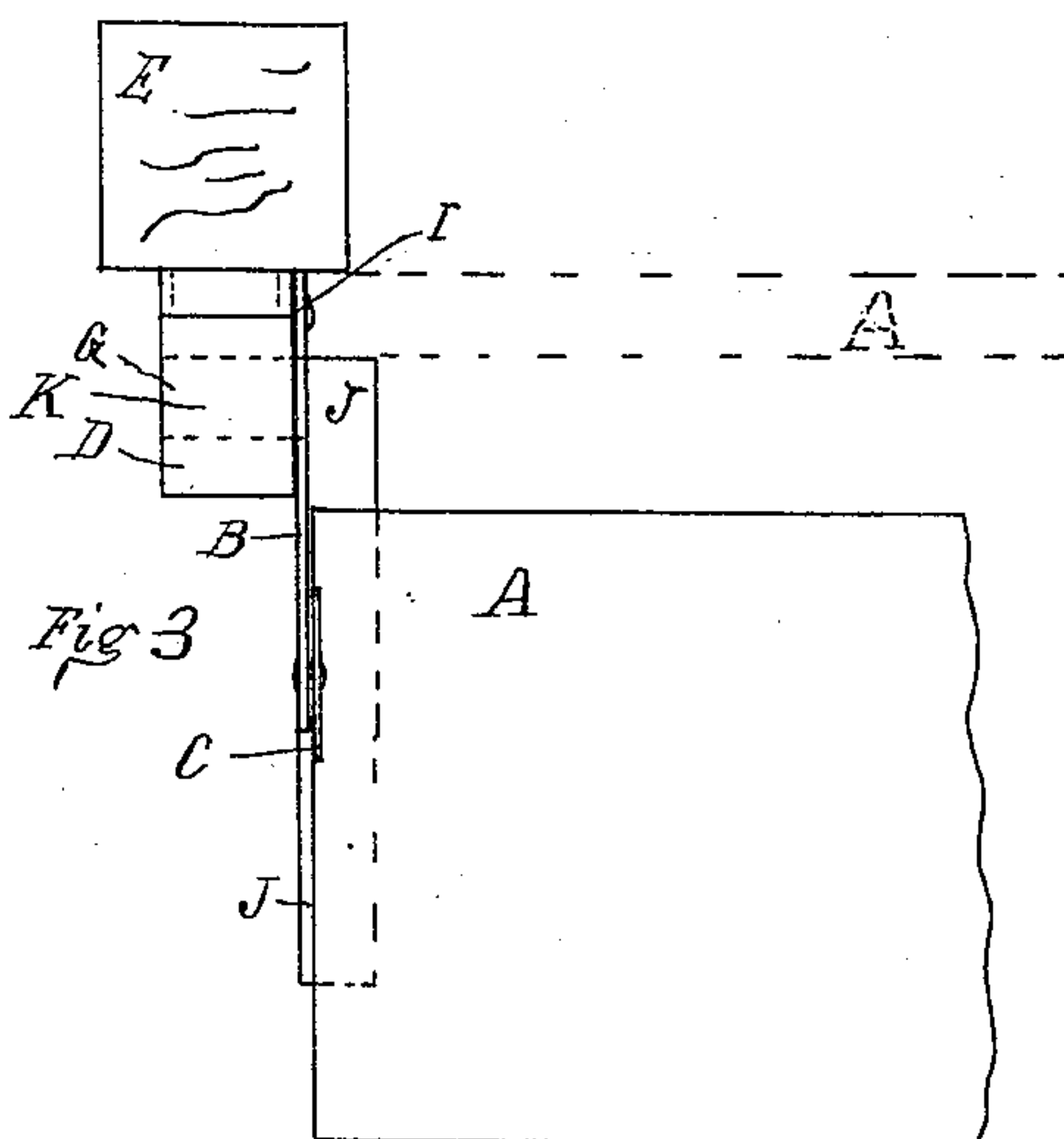


Fig 3

Witnesses James I. Bennett Henry Korell Inventor  
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# UNITED STATES PATENT OFFICE.

HENRY KORELL, OF HAMILTON, OHIO.

## FOLDING SHELF.

SPECIFICATION forming part of Letters Patent No. 475,323, dated May 24, 1892.

Application filed August 17, 1891. Serial No. 402,820. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY KORELL, of Hamilton, Butler county, Ohio, have invented certain new and useful Improvements in Folding Shelves, of which the following is a specification.

My invention relates to improvements in folding shelves to be secured to the front of stores or elsewhere to receive merchandise for display or be used for other purposes; and the objects of my improvements are to secure the shelves from unnecessary removal, to cause them to project more or less from the wall, to fold them either up or down closely against the wall, and to fold the under side outward for use as a sign. I attain these objects in the manner illustrated in the accompanying drawings, in which—

Figure 1 is an end elevation of the shelf in position for use, the manner of folding being shown by dotted lines. Fig. 2 is a front elevation of one end of the shelf in same position as in Fig. 1. Fig. 3 is a plan of Fig. 2. Fig. 4 is a transverse vertical section of the wall plate or bracket, and Fig. 5 a plan of the bracket-arm.

In the drawings, A represents a plain shelf of any desired dimension, provided with a sign on its under side, as shown in Fig. 2. Straps or braces B are pivoted to the ends of said shelf by means of plates C at a distance from the front edge of said shelf equal to the length of said straps.

D represents the wall plate or bracket, preferably of cast-iron, to be fastened in any desired manner to the wall or columns E. Its rear portion is recessed at H and should be constructed to fit the surface to which it is attached. F is a boss on the face of said bracket, perforated transversely by a rectangular mortise G at a distance from the rear of said plate equal to the thickness of shelf A. Rivets or screws I extend through holes in the edges of bracket D from recess H, on which braces B are pivoted, thus connecting the shelf at each end, by said braces pivoted at each, to the brackets D and permitting it to fold, as shown in dotted lines, Fig. 1. The supporting-arm J is preferably formed of

square wrought-iron, with foot K turned at right angles to the main portion and slightly converged toward the point to enter mortise G easily from either side. Said mortises should correspondingly converge from each end toward the center, and foot K may be made to extend only to the center of said mortise, when two supporting-arms may be connected to each bracket, if desired. When the shelf is in position, each of its ends may rest on one of the arms J, said arms being secured in a horizontal position to the respective brackets D by the insertion of foot K of each arm in a respective mortise G from the inner end of said mortise. When necessary, a bracket may be placed midway of the shelf between its ends. To fold the shelf, the supporting-arms are removed from the brackets. The shelf is turned down, as shown in Fig. 1, dotted lines, and there fastened by replacing the arms J in the brackets with the main portion depending close to the outer surface of the shelf to keep it close to the wall, as shown. The shelf may be folded either side out or either edge up, or the straps B may be turned upward with the shelf, when it may be used like a portion of a shutter to protect a window to which it may be fastened.

This invention may be used advantageously for innumerable purposes not named herein—such as shop-benches, to be folded out of the way when not in use, or for scaffolding, that is frequently needed in one place, to be folded when not used, &c.

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

1. In combination, a bracket to be fastened to a wall, an arm removably connected to said bracket, a shelf supported at one end by said arm, and a strap connecting the end of said shelf to said bracket.

2. In combination, a bracket to be fastened to a wall, a rectangular mortise in said bracket, an arm with a rectangular foot to removably enter said mortise to extend outwardly, a shelf supported at one end by said arm, and a strap connecting the end of said shelf to said bracket.



3. In combination, a shelf, a strap pivoted to each end thereof, a bracket pivoted to each of said straps, said brackets being each provided with a rectangular mortise, and arms  
5 adapted to support the respective ends of said shelf, said arms being each constructed with a foot adapted to enter into either of said mortises, whereby said arms are secured in a horizontal or a vertical position.

HENRY KORELL.

Witnesses:

J. W. SLONEKER,  
JAMES I. HEWITT.