

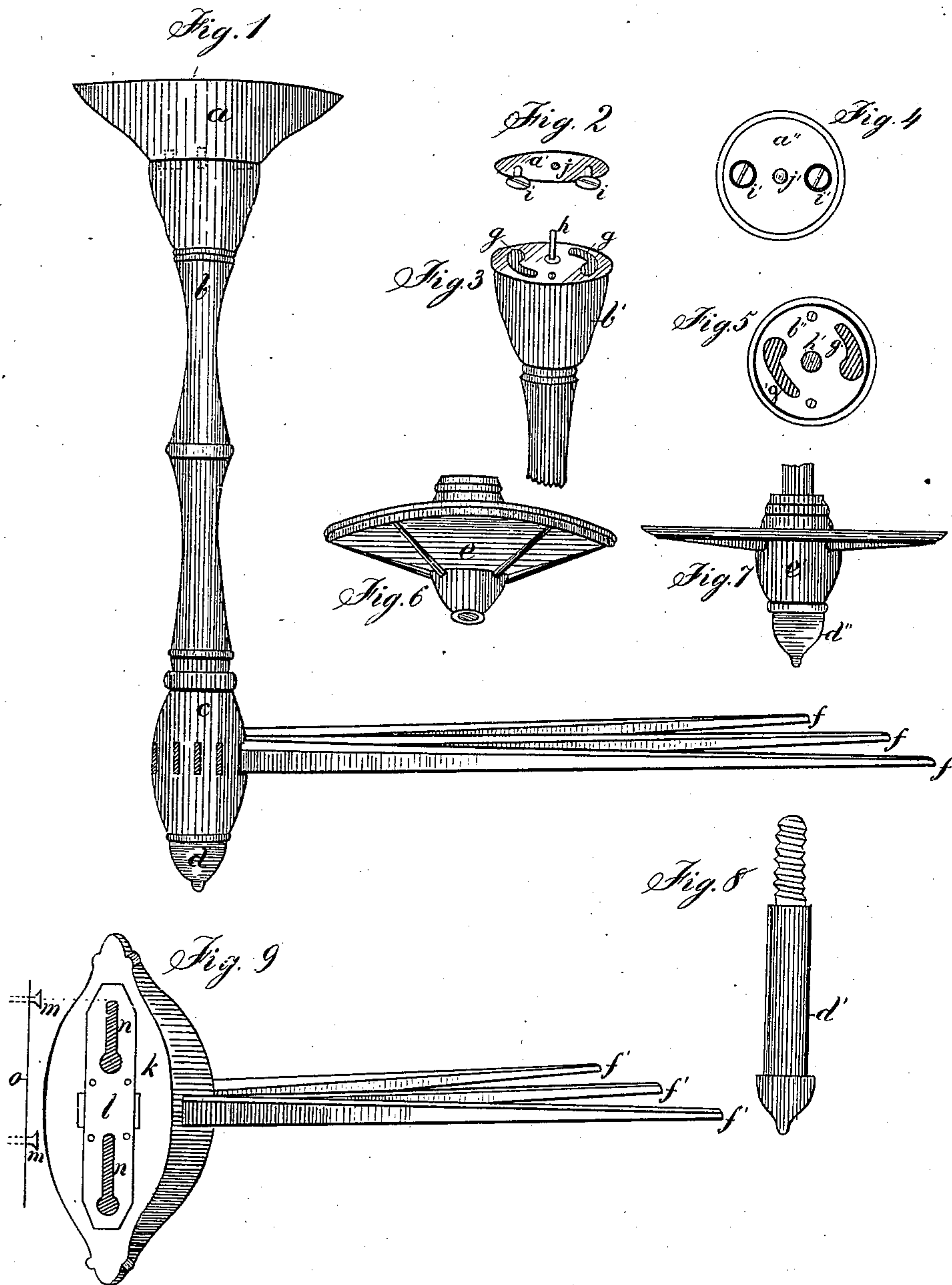
(No Model.)

F. J. MANN.

COMBINED ADJUSTABLE RACK AND SHELF.

No. 309,862.

Patented Dec. 30, 1884.



WITNESSES

L. P. Brunker.
L. P. Brunker.

INVENTOR

Franklin J. Mann
By *Allen Webster*

Attorney

UNITED STATES PATENT OFFICE.

FRANKLIN J. MANN, OF NORTH BLANDFORD, MASSACHUSETTS.

COMBINED ADJUSTABLE RACK AND SHELF.

SPECIFICATION forming part of Letters Patent No. 309,862, dated December 30, 1884.

Application filed May 31, 1884. (No model.)

To all whom it may concern:

Be it known that I, FRANKLIN J. MANN, of North Blandford, in the county of Hampden and State of Massachusetts, have invented new and useful Improvements in Adjustable Racks and Shelves, of which the following is a specification, reference being had to the accompanying drawings, in which like letters of reference indicate like parts.

Figure 1 is a view of a hanging support or rod. Figs. 2, 3, 4, 5, 6, 7, and 8 are views in detail of the device, and Fig. 9 is a view of a modification.

The rod *b* is adapted to be secured to the ceiling, and support either the shelves *e* or hub *c*, having rods *f*, or one or more racks and shelves may be supported upon this rod at the same time. The shelves are constructed with a central opening to receive a rod or part, *d*, which, passing through the shelf or central portion of the rack, screws into support *b*. The shelves or racks are thus left free to turn. The end of the supporter *b* which is adapted to be attached to the ceiling is provided with a plate, *b''*, having slots *g*, one end of each slot being of sufficient size to permit a screw-head to be inserted, and the remainder of the slot being of a size to allow a screw-shank to enter. Two screws are inserted in the ceiling in position to engage in the slots in the plate. In preference to inserting the screws in the ceiling, I permanently attach a piece, *a*, to the ceiling, thus giving a better bearing and appearance.

To facilitate the attaching and removal of the supporting-rod to the supporting-screws, I insert a central pin, *h*, and provide the upper plate or part, *a*, with a recess, *j*, adapted to receive the same. This pin being first inserted, it simply becomes necessary to turn the rod until the screw-heads enter the larger

openings, then the rod, being forced upward and again turned, is locked in place. The rods *f* are inserted in the openings in the movable portion or hub *c*. These openings may be of the shape shown, or they may be round. The rods may be permanently secured therein, or they may be left to be removed, as may be desired.

Fig. 9 shows a modification of the device. This is adapted to be secured to the wall by substantially the same means as the supporting-rod is secured to the ceiling. Thus a rack or shelf may be readily and firmly fixed in place or removed with but little inconvenience.

Very many modifications may be made without departing from my invention.

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

1. A supporting-rod, *b*, adapted to be secured to the ceiling, and having one or more shelves, *e*, suspended thereon.

2. A supporting-rod, *b*, adapted to be suspended from the ceiling, and having one or more racks suspended thereon, substantially as shown.

3. The supporting-rod *b*, adapted to support shelves or racks, and having the plate *b''*, in combination with screws *i i*, all constructed and operating substantially as shown.

4. The rod *b*, in combination with part *d*, and a shelf or rack, substantially as shown.

5. The rod *b*, having plate *b''*, provided with slots *g*, and pin *h*, in combination with supporting-screws *i i* and opening *j j*, substantially as shown.

FRANKLIN J. MANN.

Witnesses:

SAML. A. BARTHOLOMEW,

ELIZABETH C. BARTHOLOMEW.