

No. 747,614.

PATENTED DEC. 22, 1903.

F. X. KRABACH.
RACK.

APPLICATION FILED MAR. 23, 1903.

NO MODEL.

Fig. 1.

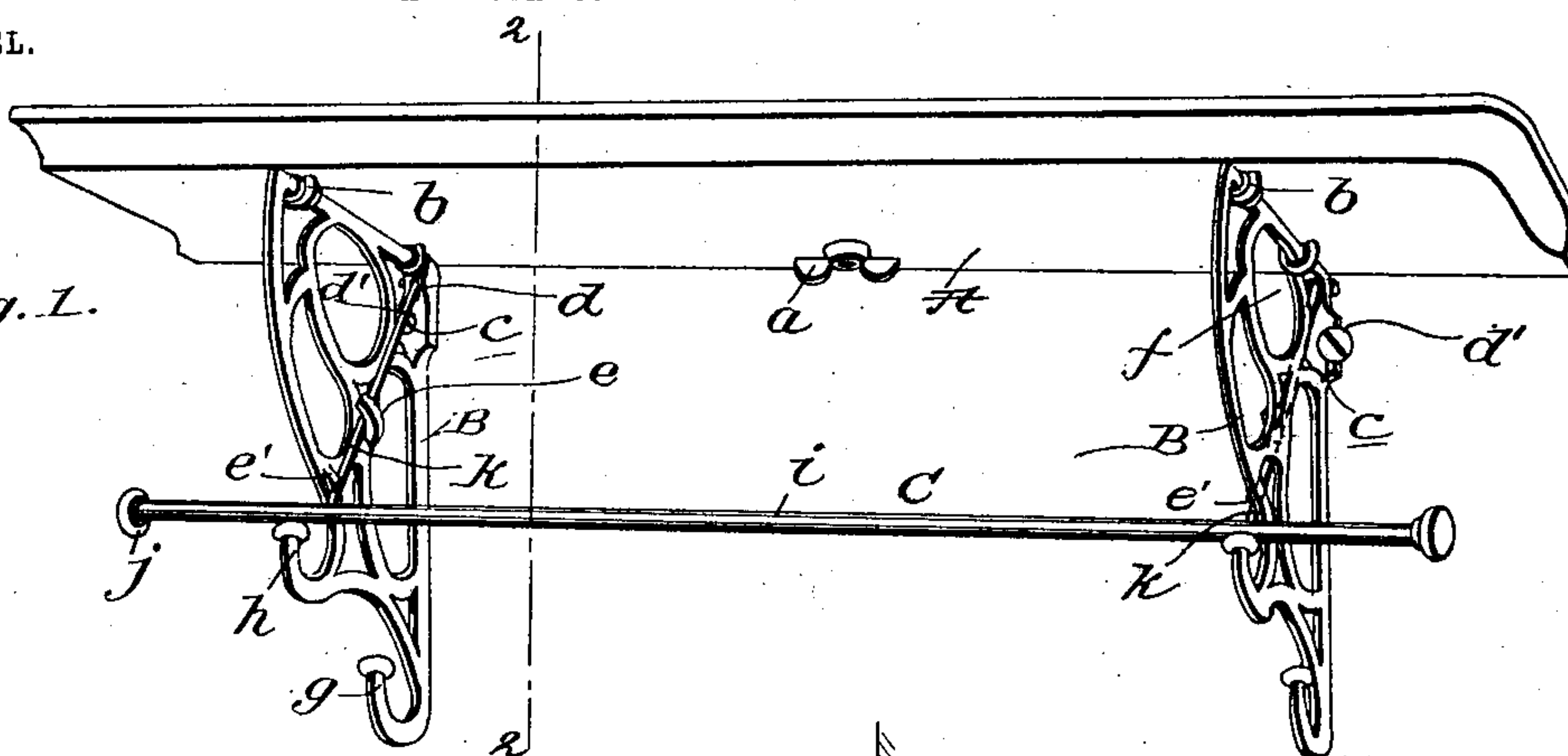


Fig. 2.

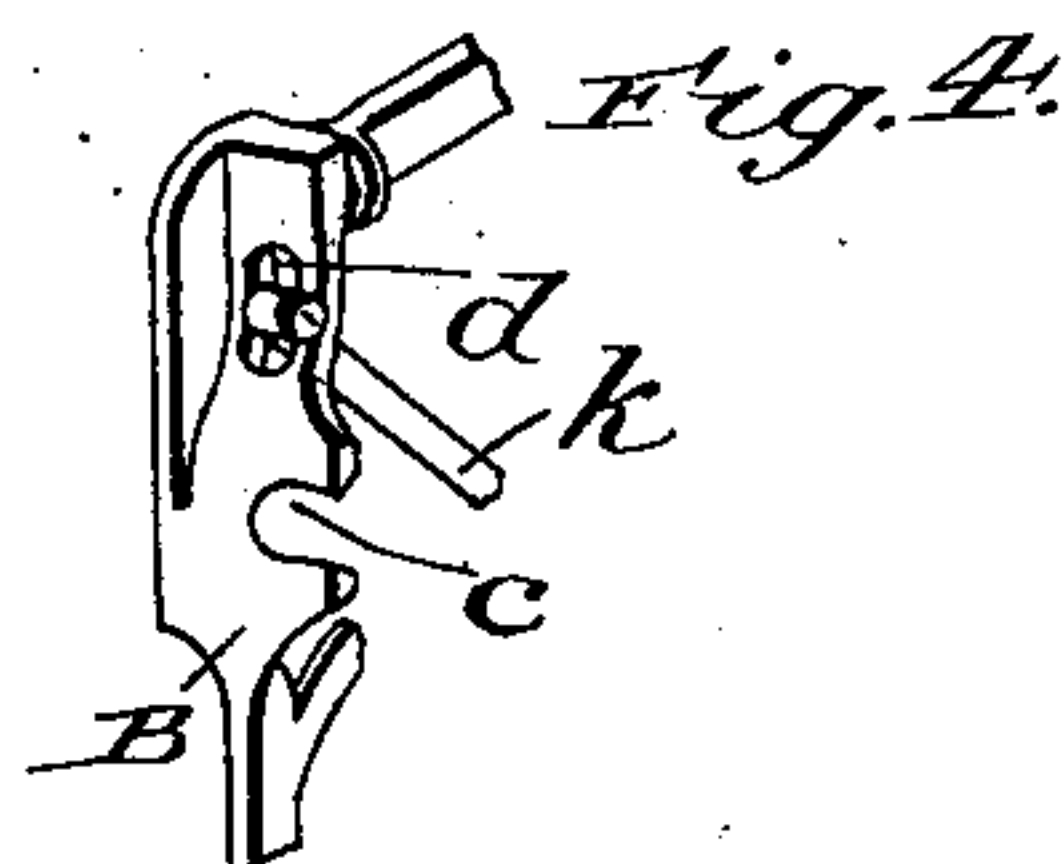
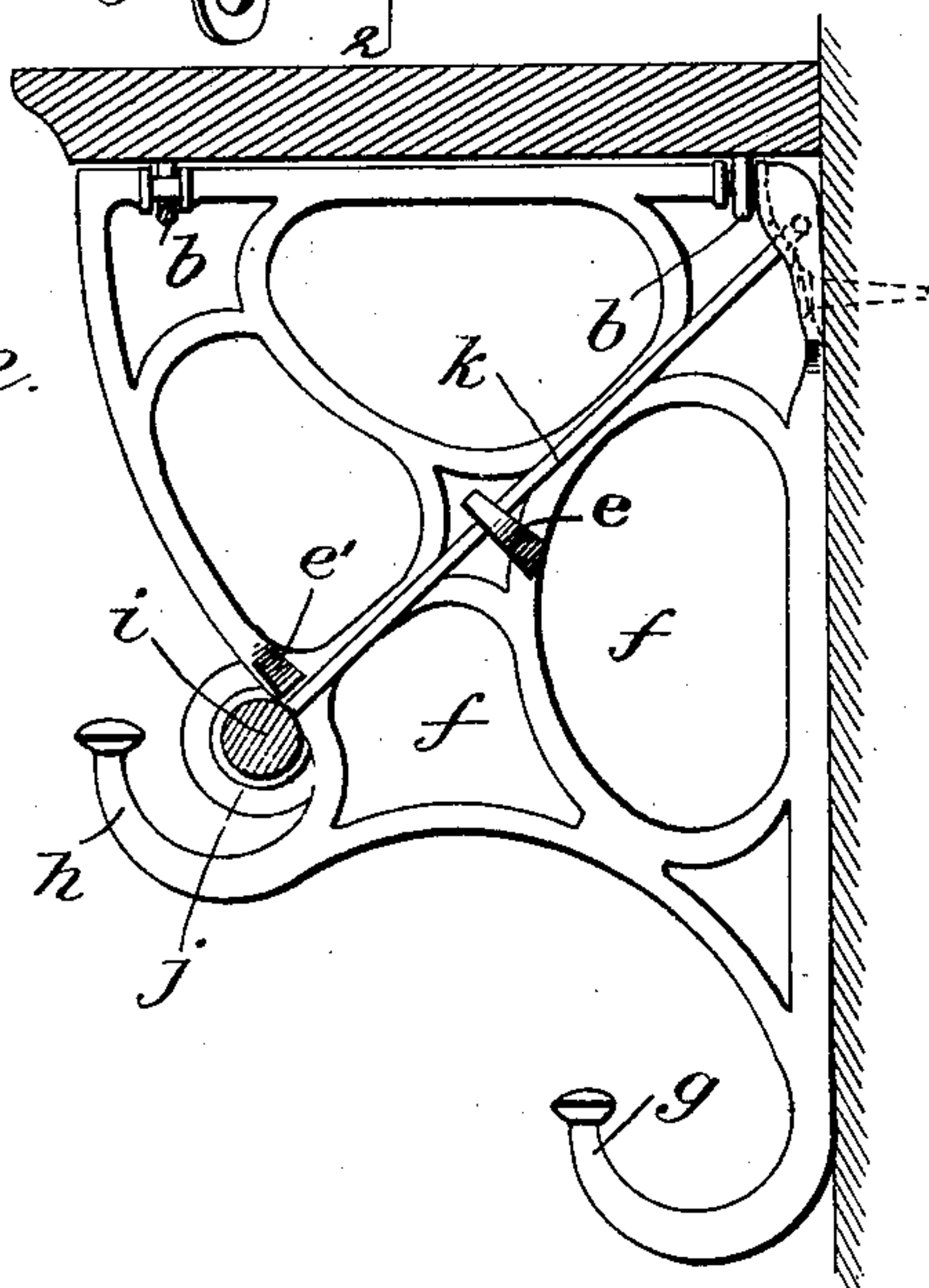
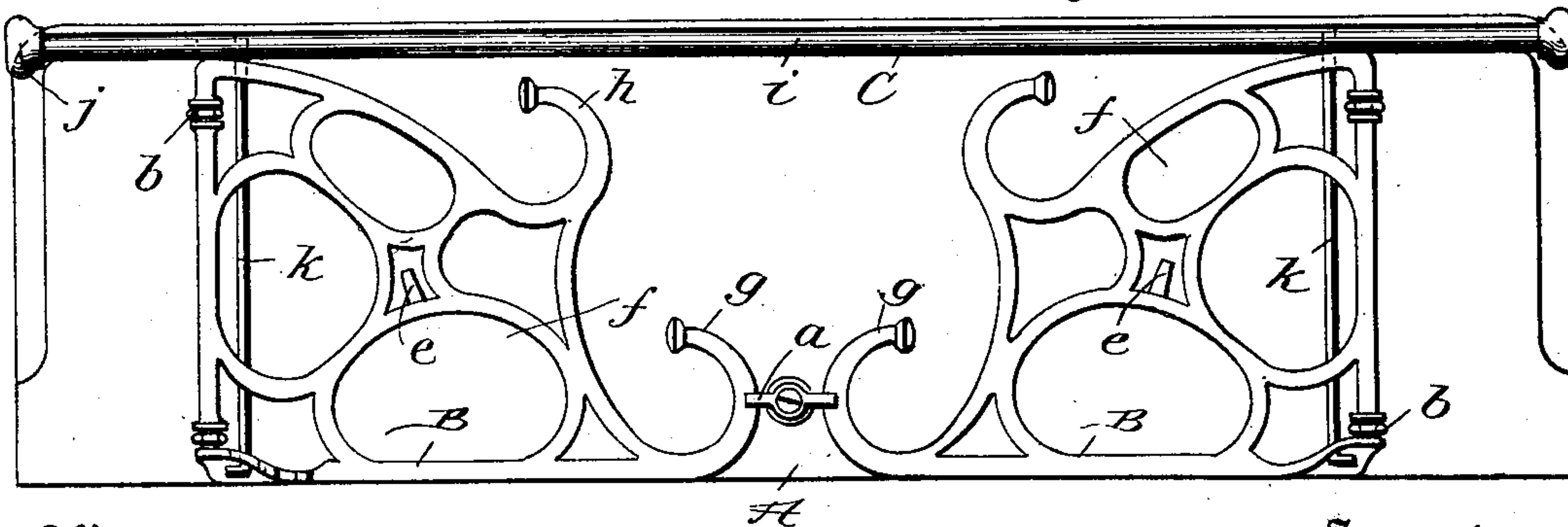


Fig. 3.



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UNITED STATES PATENT OFFICE.

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RACK.

SPECIFICATION forming part of Letters Patent No. 747,614, dated December 22, 1903.

Application filed March 23, 1903. Serial No. 149,192. (No model.)

To all whom it may concern:

Be it known that I, FRANK X. KRABACH, a citizen of the United States, residing at Fort Wayne, in the county of Allen and State of Indiana, have invented new and useful Improvements in Racks, of which the following is a specification.

My invention relates to racks, and has for its object to provide a strong and solid combined shelf and rack which is possessed of large capacity for supporting ornaments, books, clothes, hats, umbrellas, canes, and the like and is adapted to be compactly folded, so as to take up but a minimum amount of space in storage or shipment.

With the foregoing in mind the invention will be fully understood from the following description and claims when taken in connection with the accompanying drawings, in which—

Figure 1 is a perspective view of my improved shelf and rack as it appears when unfolded and set up ready for use; Fig. 2, an enlarged transverse section taken in the plane indicated by the broken line 2 2 of Fig. 1; Fig. 3, a plan view of the shelf and rack as it appears when folded, and Fig. 4 an enlarged detail perspective view illustrating the manner in which I prefer to pivotally connect the arms of the fastener of the device to the brackets thereof.

Similar letters of reference designate corresponding parts in all of the several views of the drawings, referring to which—

A is the shelf of the device, which is preferably of wood, and has a wing-nut *a* pivotally connected to its under side adjacent to its inner edge, and B B are the brackets, which are, by preference, respectively formed of one piece of cast-iron and are hinged or pivotally connected to the under side of the shelf, preferably through the medium of staples *b*, as best shown in Fig. 2. Each of the brackets is provided in its inner vertical portion and at points adjacent to its connected end with a notch *c* and an aperture *d*, Fig. 4. The notches *c* are designed to receive screws *d'*, Fig. 1, by which the brackets are connected to a wall or the like, while the apertures *d* are for the connection of the fastener, presently described. Each bracket is further provided with a hook *e* and a beveled keeper *e'*,

disposed at its inner side, in the relation best shown in Fig. 2, and with four (more or less) openings *f*, preferably of different sizes, and two (more or less) hooks *g h*.

C is the fastener of the device. This fastener comprises a longitudinal rod *i*, preferably of wood, having knobs or enlargements *j* at its ends, and arms *k*, preferably of wire, which are connected at their outer ends to the rod and are pivotally secured at their inner ends in the apertures *d* of the brackets B, Fig. 4.

When it is desired to fold my improved device so as to render it compact for carriage or storage, the fastener C is swung against the shelf A, as are also the brackets B, Fig. 3, and the nut *a* is turned so as to place its wings over the brackets and hold them against the shelf. As the brackets are swung inwardly over the arms *k* of fastener C, Fig. 3, it follows that when the brackets are secured in the position shown in Fig. 3 the fastener will be confined between the brackets and the shelf.

To unfold and set up the device, the nut *a* is turned out of engagement with the brackets, the brackets are swung to positions at right angles to the shelf, and the fastener is swung away from the shelf until its arms *k* ride over and pass the keepers *e'* of the brackets and seat in the hooks *e* of the same, Fig. 2. In this latter position the arms of the fastener are not liable to casual movement, and hence may be depended on to hold the brackets at right angles to the shelf and against movement in either direction and render the device as a whole rigid and strong. When, however, it is desired to fold the device, as before described, the arms *k* of the fastener may be readily sprung laterally and swung out of engagement with the hooks *e* and keepers *e'*.

When the device is connected to an apartment-wall or other support, as shown in Fig. 1, hooks, ornaments, and the like may be placed on the shelf A, coats, hats, and other articles of apparel may be hung on the hooks *g h* of the brackets, umbrellas, canes, and like articles may be placed longitudinally in the openings of the brackets, and newspapers may be filed—*i e.*, hung—on the rod *i* of the fastener. When desired, hats or caps may

be hung on the ends of the rod *i* which extend beyond the brackets B. From this it follows that my improved combined shelf and rack is possessed of large capacity and constitutes a highly-desirable piece of furniture.

I have entered into a detailed description of the construction and relative arrangement of the parts embraced in the present and preferred embodiment of my invention in order to impart a full, clear, and exact understanding of the same. I do not desire, however, to be understood as confining myself to such specific construction and arrangement of parts, as such changes or modifications may be made in practice as fairly fall within the scope of my invention as claimed.

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

1. In a combined shelf and rack, the combination of a shelf, swinging brackets hinged to the shelf, and a swinging fastener comprising a longitudinal rod and arms disposed at right angles to the rod; said arms being pivotally connected to the brackets, and arranged to swing at right angles to the direction of movement of the brackets and alongside the same, whereby said arms are adapted in one position, to hold the brackets at an angle to the shelf, and in another position to permit of the brackets being swung against the shelf.

2. In a combined shelf and rack, the combination of a shelf, brackets hinged thereto, and each having a hook at one side, and a swinging fastener comprising a longitudinal rod and arms pivotally connected to the brackets, and adapted to be seated in the hooks thereof.

3. In a combined shelf and rack, the combination of a shelf, brackets hinged thereto, and each having a keeper at one side, and a swinging fastener comprising a longitudinal rod and arms pivotally connected to the brackets, and adapted to be moved past the keepers thereon.

4. In a combined shelf and rack, the combination of a shelf, brackets hinged thereto, and each having a hook and a beveled keeper at its inner side, and a swinging fastener comprising a longitudinal rod and arms arranged at the inner sides of the brackets, and pivotally connected thereto.

5. In a combined shelf and rack, the combination of a shelf, brackets hinged thereto,

and each having a hook and a beveled keeper at its inner side, a swinging fastener comprising a longitudinal rod and arms arranged at the inner sides of the brackets and pivotally connected to the same, and a turn device connected to the shelf and adapted to be turned into engagement with the brackets when the latter are swung against the shelf.

6. In a combined shelf and rack, the combination of a shelf, brackets hinged thereto, a swinging fastener comprising a longitudinal rod and arms pivotally connected to the brackets, and adapted in one position to hold the brackets at an angle to the shelf, and in another position, to permit of the brackets being swung against the shelf, and a turn device connected to the shelf and adapted to be turned into engagement with the brackets when the latter are swung against the shelf.

7. The combination of hinged brackets, adapted to swing, and a fastener mounted to swing at right angles to the direction of movement of the brackets, and arranged in one position to permit of the brackets being swung, and in another position, to hold the brackets against movement.

8. A swinging fastener having arms, in combination with brackets, hinged to swing at right angles to the direction of movement of the arms of the fastener, and having devices for holding them to said arms of the fastener, and against movement.

9. In a combined shelf and rack, the combination of a shelf, brackets hinged thereto, and having openings and hooks, and also having means for holding them to the arms of a swinging fastener when the latter is swung outwardly, and the said swinging fastener comprising a longitudinal rod, and arms pivotally connected to the brackets and adapted to be engaged thereby.

10. The combination of a shelf, brackets hinged thereto, a swinging fastener comprising a longitudinal rod, and arms disposed at the inner sides of the brackets, and means on the shelf for engaging and holding the outer portions of the brackets.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

FRANK X. KRABACH.

Witnesses:

GEORGE S. MILLER,
GEORGE K. TORRENCE.