No. 742,007. PATENTED OCT. 20, 1903.

F. L. COLLIS.

SHELF SUPPORTER.

APPLICATION FILED JAN. 10, 1903.

NO MODEL.

Fig. 1.

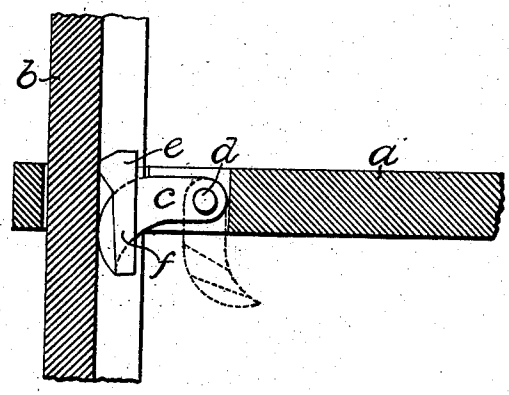


Fig. 2.

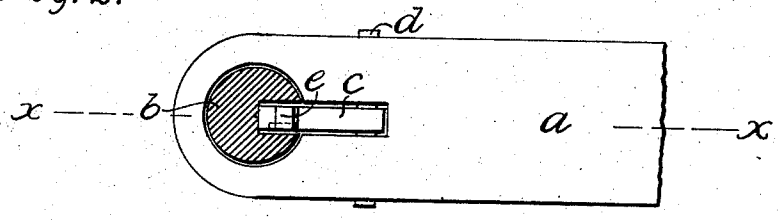


Fig. 3.

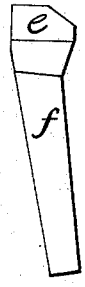
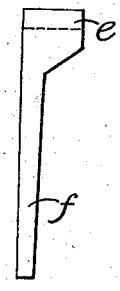


Fig. 4.



WITNESSES:

J. F. Allen Jr.

C. M. Jenson

INVENTOR

Fred Lee Collis

BY

G. C. Kennedy,

ATTORNEY

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

No. 742,007. Patented October 20, 1903.

UNITED STATES PATENT OFFICE.

FRED LEE COLLIS, OF IOWA FALLS, IOWA.

SHELF-SUPPORTER.

SPECIFICATION forming part of Letters Patent No. 742,007, dated October 20, 1903.

Application filed January 10, 1903. Serial No. 138,485. (No model.)

To all whom it may concern:

Be it known that I, FRED LEE COLLIS, a citizen of the United States of America, and a resident of Iowa Falls, Hardin county, Iowa, have invented certain new and useful Improvements in Shelf-Supporters, of which the following is a specification.

My invention relates to improvements in shelf-supporters; and the object of my invention is to provide a friction-clutch fastener for adjustable shelf-supporters with locking means to prevent displacement of the shelf in an upward direction and also to so design the parts that they will be completely concealed from view and out of the way. This object I effect by the means illustrated in the accompanying drawings, in which—

Figure 1 is a vertical sectional view of my locked friction-clutch and shelf-supporter on the line $x\ x$ of Fig. 2. Fig. 2 is a plan view of the same. Fig. 3 is one view of the locking-wedge, and Fig. 4 is another view of the same.

Similar letters refer to similar parts throughout the several views.

The post b is represented as being provided with a vertical groove or recess whose inner surface is designed to be engaged by the friction-clutch c, the latter pivoted at d within a slot in the shelf-supporter a. The end of the said shelf-supporter a is provided with a hole communicating with said slot for the reception of the post b, allowing the supporter to be moved vertically over the post. Of course when desired the supporter may be bracketed. The friction-clutch c is grooved along one side for the reception of the wedge f. The wedge f is provided with a peculiarly-formed head e, so contrived that when the clutch has been moved up in contact with inner surface of the inside of recess in post b and the wedge has been shoved down into the groove in the side of said clutch the angular projection on the head of the wedge also firmly contacts with the same inner surface of the recess in post. This contact both of the clutch and wedge with the surface of the recess insures a tight and binding connection, which is only locked more securely when additional weight is placed upon the shelf. It will be perceived that when the wedge has been put in place the supporter a is in no danger of being displaced by accidental blows from below, as the wedge acts as a clutch against the inner surface of the recess on account of its angular projection on head engaging same. A further practical benefit resulting from the manner of constructing and placing the parts of the friction-clutch so as to be entirely concealed is in this that it leaves no projecting parts to obstruct the free movement of goods or articles along the shelf.

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

1. A shelf-supporter consisting of a recessed post, a bracket adapted to move vertically about said post, a recessed friction-clutch pivoted in said bracket, and a headed wedge formed to fit the recess in said clutch and limit its movement in one direction, substantially as shown and described.

2. A shelf-supporter consisting of the recessed post b, in combination with the slotted bracket a having the recessed friction-clutch c pivoted on a pin d, and the wedge f provided with a projecting head e, all substantially as shown and described.

Signed at Iowa Falls, Iowa, this 18th day of December, 1902.

FRED LEE COLLIS.

Witnesses:
JAY S. NEWCOMER,
J. H. CARLETON.