C. W. SAFFORD.

RACK.

APPLICATION FILED MAR. 10, 1915.

1,246,940.

Patented Nov. 20, 1917.

2 SHEETS—SHEET 1.

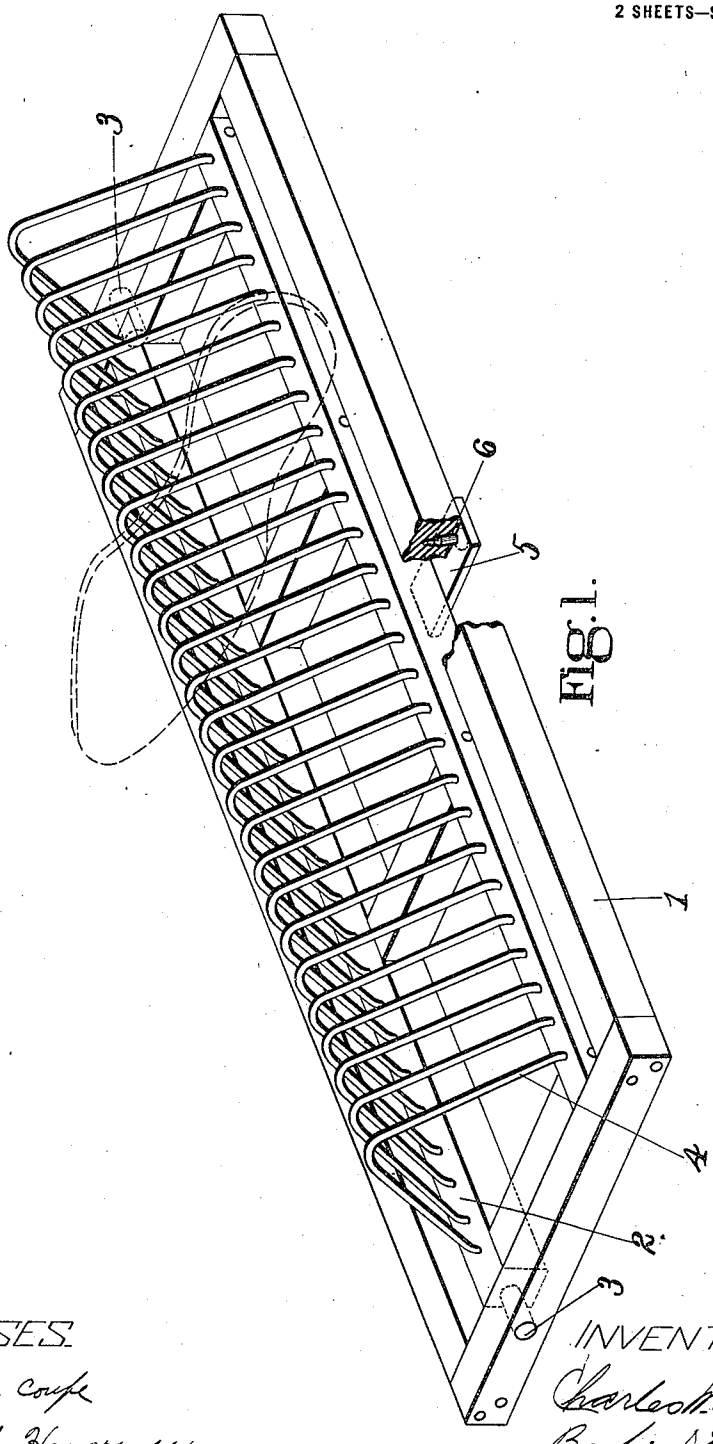


Fig. 1.

WITNESSES.

Elizabeth C. Coupe

O. Blanche Hargraves

INVENTOR.

Charles W. Safford

By his Attorney,

Nelson M. Howard

C. W. SAFFORD.

RACK.

APPLICATION FILED MAR. 10, 1915.

1,246,940.

Patented Nov. 20, 1917.

2 SHEETS—SHEET 2.

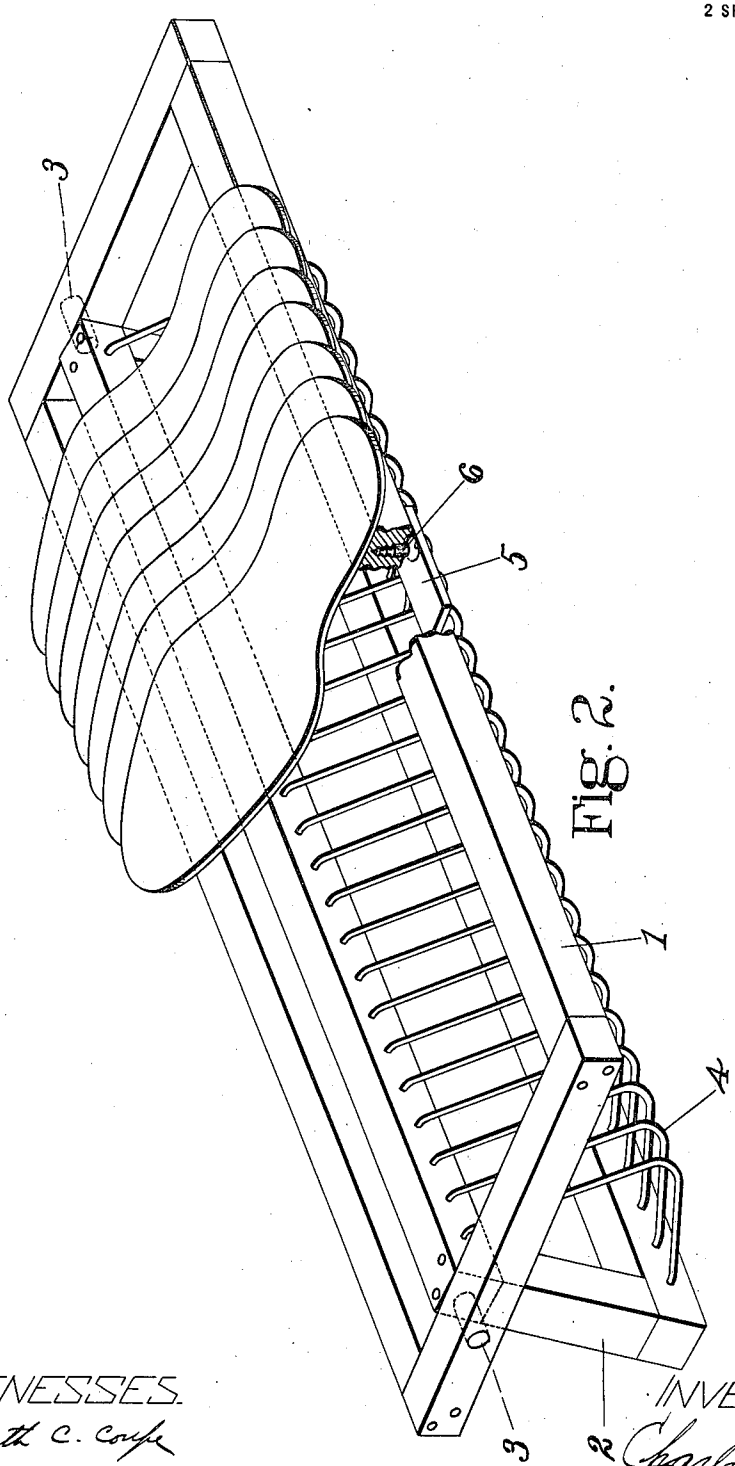


Fig. 2.

WITNESSES.

Elizabeth C. Coupe

O. Blanche Fargnares

INVENTOR.

Charles W. Safford

By his Attorney

Nelson A. Howard

UNITED STATES PATENT OFFICE.

CHARLES W. SAFFORD, OF BROCKTON, MASSACHUSETTS, ASSIGNOR TO UNITED SHOE MACHINERY COMPANY, OF PATERSON, NEW JERSEY, A CORPORATION OF NEW JERSEY.

RACK.

1,246,940. Specification of Letters Patent. Patented Nov. 20, 1917.

Application filed March 10, 1915. Serial No. 13,358.

To all whom it may concern:

Be it known that I, CHARLES W. SAFFORD, a citizen of the United States, residing at Brockton, in the county of Plymouth and State of Massachusetts, have invented certain Improvements in Racks, of which the following description, in connection with the accompanying drawings, is a specification, like reference characters on the drawings indicating like parts in the several figures.

This invention relates to racks. Its object is to provide a rack which will support objects of flat or extended form out of contact with one another, and yet permit all the objects to be grasped or removed at one time.

A feature of my invention is a rack for supporting a plurality of objects, comprising a supporting frame and a separating means so related that the objects and supporting frame on the one hand, and the separating means on the other hand, can be relatively moved to discontinue the separated relation of the objects and permit them to be gathered together.

Another feature of my invention is a rack having a supporting frame and a separator frame which can be moved out of operative position relative to objects supported on the frame.

A further feature of my invention is a separating means and a device constructed and arranged to move relatively to each other to terminate the separated relation of the objects supported thereby.

Other features of the invention, comprising certain combinations and arrangements of parts will be described in the specification and pointed out in the claims.

The invention is shown embodied in a cut-sole rack used for the purpose of supporting a number of cut-soles out of contact with one another for drying purposes. In the use of racks for this purpose, as heretofore constructed, it was necessary to remove the soles individually and this required a good deal of time. The rack shown in the drawings is so constructed that the soles, when dried, may be removed from it all at once.

In the drawings, which show one embodiment of the invention in a cut-sole rack:—

Figure 1 is a perspective of the rack as it appears when supporting the undried soles, and

Fig. 2 is a perspective showing the separating means dropped to release the soles.

The main frame 1 is supported in any desired way so that there is suitable free space beneath it. The separator frame 2 is situated within the frame 1 and is pivoted to it at one side on the pintles 3. The separator frame 2 carries the fingers 4 which extend upwardly from it in parallel planes. The button 5 on the pivot 6 extends under the frame 2 and keeps it from dropping. The damp soles are placed between the fingers 4 with their ends resting on the sides of the frame 1. When the soles are ready for the next operation which is to be performed on them, the operator turns the button 5 and releases the frame 2, which turns about its pivots 3 dropping the fingers 4 down from between the soles. The soles can then be picked up all at once between the operator's hands and removed.

It will be obvious that my invention in its broader aspects embraces racks for handling all sorts of objects whose lateral dimensions are great relatively to their thickness, such as platters, plates, saucers, photographic plates, molded soles, chair seats, etc. It is my intention that the term "flat" as used in this application shall be interpreted so broadly as to include such objects.

Having described my invention, what I claim as new and desire to secure by Letters Patent of the United States is:—

1. A sole rack comprising a sole-supporting frame, and a separator comprising members constructed and arranged to support the soles laterally out of contact with one another, said frame and separator being constructed and arranged to be movable out of operative relation with each other leaving the soles supported by said frame.

2. A rack comprising a frame, and a separating means comprising partitions for holding objects out of contact with one another constructed and arranged to permit the

operative relation between the separator and the objects to be broken, leaving the objects supported by the frame.

3. A rack comprising a supporting frame, and a separating means constructed and arranged to be movable out of operative relation to the objects supported by said frame.

4. A rack for supporting substantially flat objects comprising a supporting frame, and a separator for supporting said objects out of contact with one another, constructed and arranged to drop out of operative relation to said objects.

5. A rack for supporting substantially flat objects comprising a supporting frame, a second frame movably mounted thereon and separator fingers constructed and arranged to support said flat objects loosely mounted on said second frame.

6. A rack for supporting objects comprising a frame, a separator for holding said objects out of contact with one another, and normally tending to move out of operative relation with them, and means for maintaining said separator in operative relation with said objects.

7. A rack for supporting objects comprising separating means, in combination with a device constructed and arranged to permit relative movement between said separating means and said device, and to remove the objects from said separating means upon said relative movement.

8. A rack comprising separating means having partitions and a device constructed and arranged to move relatively to each other to terminate the separated relation of the objects supported by the rack, leaving the objects supported by the device.

9. A rack comprising a support, and a separating means having partitions constructed and arranged to support objects held by the rack out of contact with one another, and to move through said support, to release said objects.

10. A rack comprising a separator having partitions constructed and arranged to hold flat objects in separated position, and a member constructed and arranged to permit said partitions to be projected and retracted through it.

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

CHARLES W. SAFFORD.

Witnesses:

GEO. N. GORDON,

HERBERT J. SINCLAIR.