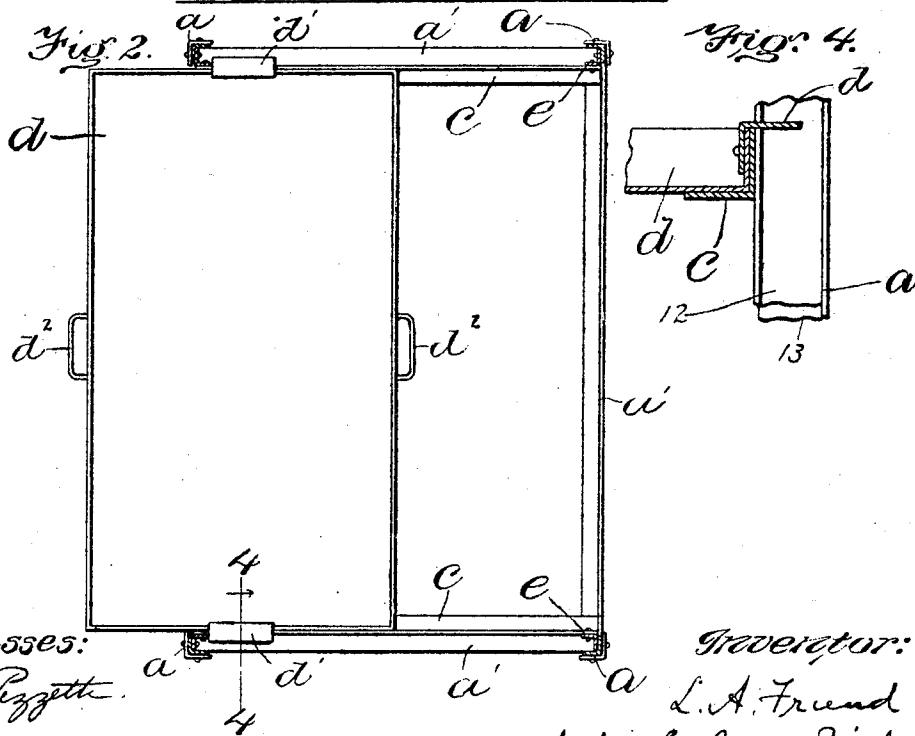
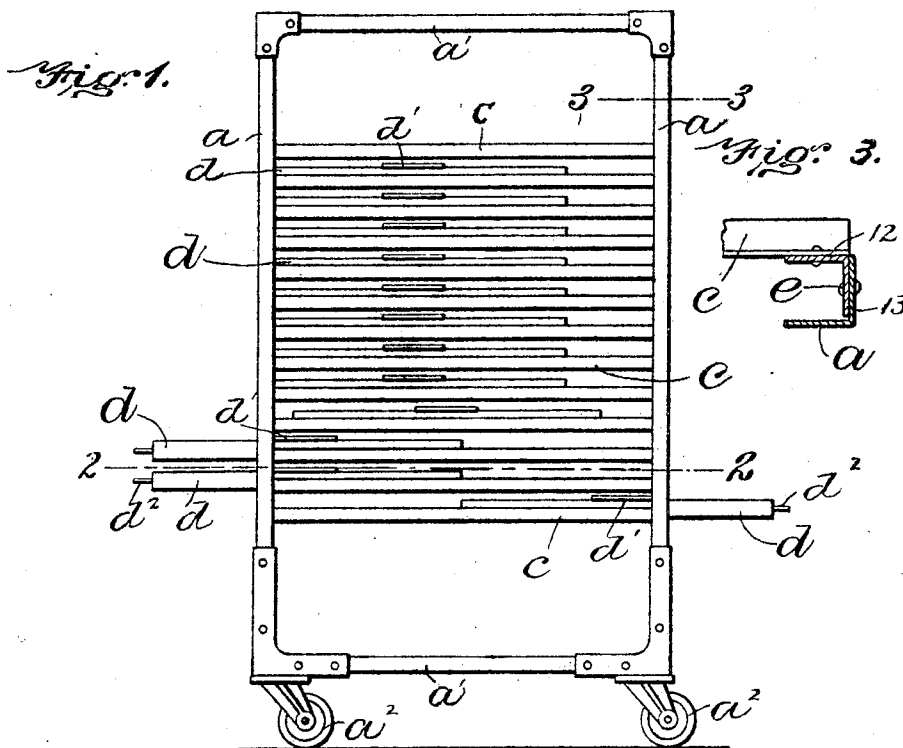


L. A. FRIEND.
PORTABLE RACK.
APPLICATION FILED MAR. 31, 1905.



Witnesses:
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UNITED STATES PATENT OFFICE.

LESLIE A. FRIEND, OF MELROSE, MASSACHUSETTS, ASSIGNOR TO H. A. JOHNSON AND COMPANY, OF BOSTON, MASSACHUSETTS.

PORTABLE RACK.

SPECIFICATION forming part of Letters Patent No. 795,111, dated July 18, 1905.

Application filed March 31, 1905. Serial No. 253,102.

To all whom it may concern:

Be it known that I, LESLIE A. FRIEND, of Melrose, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Portable Racks, of which the following is a specification.

This invention relates to a portable rack comprising a frame having wheels or casters and adapted to be conveniently moved about and trays or shelves slidingly engaged with the frame and adapted to be projected therefrom to permit the reception and removal of articles intended to be supported by the trays.

The invention has for its object to provide a rack of this character adapted particularly for holding pies; and it consists in the improvements hereinafter described and claimed, resulting in the production of a rack having a series of trays adapted to be projected from either side of the portable frame, the arrangement being such as to prevent the center of gravity of the rack from being moved outside the center of the base of the frame by the simultaneous projection of all the trays in either direction, and, further, such that the simultaneous projection of one tray in one direction and an adjacent tray in the opposite direction will cause the uncovering of the lower tray and permit it to be conveniently loaded and unloaded.

Of the accompanying drawings, forming a part of this specification, Figure 1 represents a side elevation of a rack embodying my invention. Fig. 2 represents a section on line 2 2 of Fig. 1, the projected tray shown at the right in Fig. 1 being omitted. Fig. 3 represents a section on line 3 3 of Fig. 1. Fig. 4 represents a section on line 4 4 of Fig. 2.

The same reference characters indicate the same parts in all the figures.

In carrying out my invention I construct a rectangular frame having four vertical corner-posts *a* and suitable horizontal cross-bars *a'* rigidly connected with the posts *a*, the whole constituting a strong and rigid frame having open sides. The said parts are preferably made of metal bars, which are angular or L-shaped in cross-section, the corner-posts *a*

being preferably made by uniting two angle-bars 12 13 by rivets *e*, as shown in Fig. 3.

c c represent horizontal guides affixed to adjacent corner-posts and adapted to support a series of horizontal trays *d*. There are two series of guides *c*, one series at each end of the frame, said guides being preferably L-shaped metal bars riveted at their ends to the corner-posts. The trays *d* are shallow metal pans of sheet metal, preferably steel, and are adapted to move upon the guides *c* and be partially projected from either side of the frame, each tray being provided with handles *d'* to enable it to be conveniently moved. Means are provided for preventing the trays from being projected far enough to move the center of gravity of the rack outside the base of the frame, the base in this instance including the space between the points where the wheels or casters *a''* at the four corners of the frame bear upon the floor. The said means, as here shown, comprise stop-ears *d''*, affixed to the trays *d* and projecting outwardly from the ends of the trays over the guides *c* and between the corner-posts to which said guides are affixed, the arrangement being such that the stop-ears *d''* abut against the corner-posts, as indicated in Fig. 2, and thus limit the projection of the trays. As will be seen by reference to Fig. 1, the arrangement of the stop-ears is such that considerably less than half the width of any tray can be projected from the frame. Hence if all the trays are projected in one direction there is no liability of interference with the equilibrium of the rack. The stop-ears *d''* are also so arranged that the inner edge of a tray when fully projected is about midway between the opposite sides of the frame, so that when one tray is projected from one side of the frame, and the tray above it is projected from the opposite side of the frame the upper tray is entirely removed from above the lower tray, and the latter is therefore exposed, so that it can be conveniently loaded and unloaded.

The described rack is particularly useful for pie-bakers, because it enables a large

number of unbaked pies to be stored in one rack, moved to the oven, and conveniently transferred to the oven. After the pies have been baked they are returned to the rack, 5 which may be then wheeled to the point from which the pies are to be taken for delivery.

I claim—

1. A rack of the character stated comprising a portable frame having vertical corner- 10 posts, and horizontal guides attached to the posts, and horizontal trays movable on said guides and adapted to be partially projected from either side of the frame, the trays and frame having complemental stop members 15 adapted to limit the projection of the trays and prevent the center of gravity of the rack from being moved outside the base of the frame, the arrangement being such that the projection of two adjacent trays in opposite 20 directions exposes the lower tray.

2. A rack of the character stated compris-

ing a portable frame having vertical corner- posts, and horizontal guides attached to the posts, horizontal trays movable on said guides and adapted to be partially projected from 25 either side of the frame, and stop-ears affixed to the ends of the trays and projecting between adjacent corner-posts and adapted to abut against said posts to limit the projection of the trays from the frame in each direction, 30 the said ears being arranged to prevent the center of gravity of the rack from being moved outside the base of the frame, and to cause a tray projected in one direction to be uncovered by the projection of an adjacent 35 tray in the opposite direction.

In testimony whereof I have affixed my signature in presence of two witnesses.

LESLIE A. FRIEND.

Witnesses:

EDWIN F. WARREN,
FRANK M. JONES.