

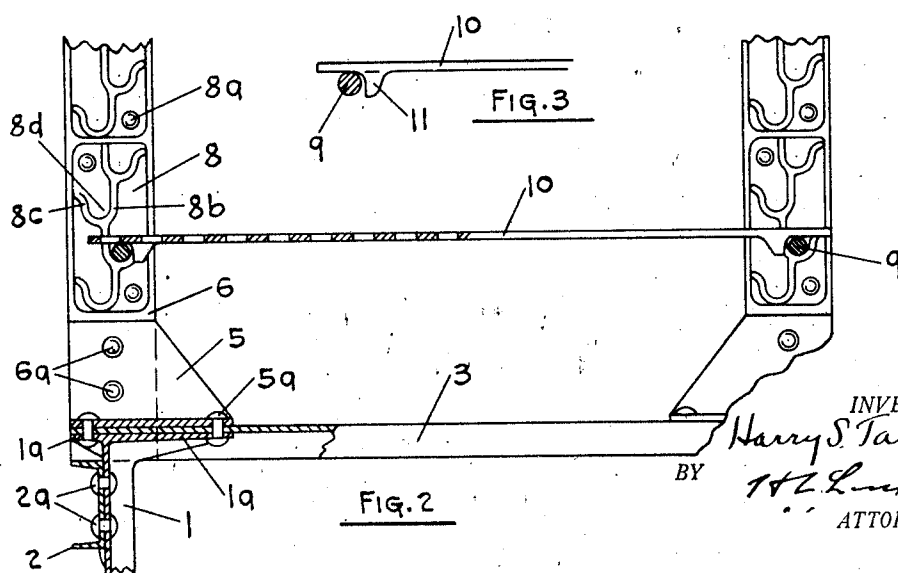
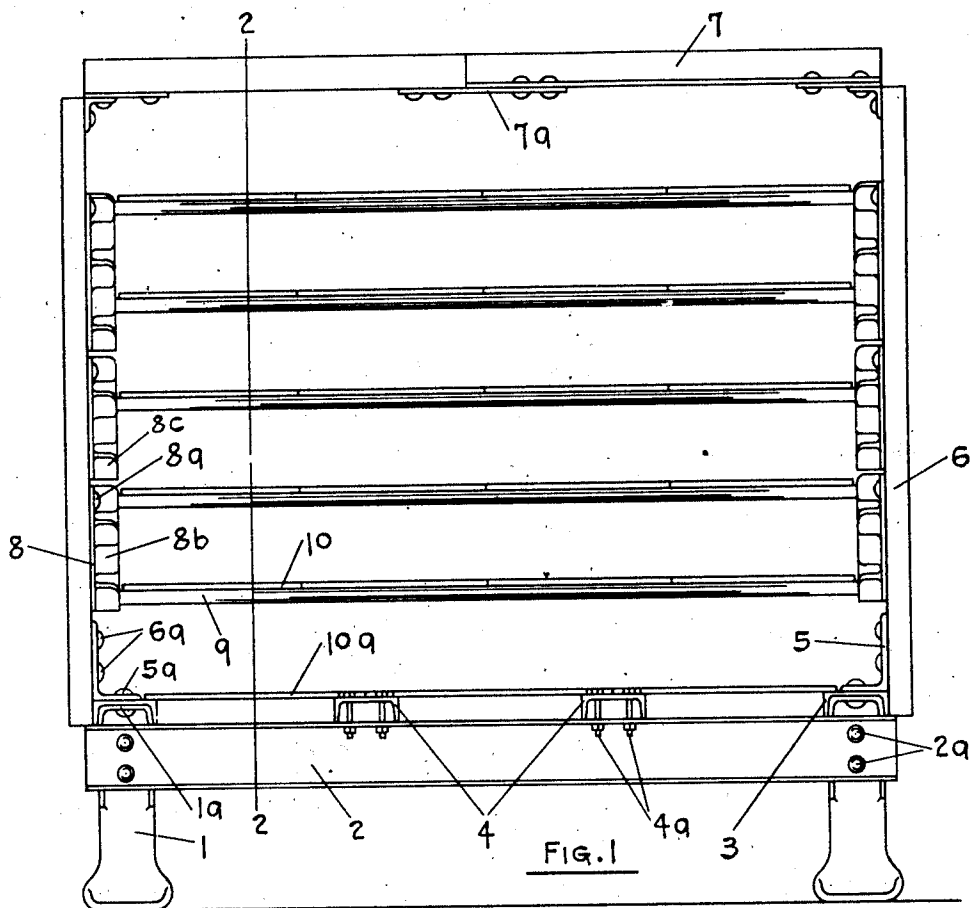
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RACK

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UNITED STATES PATENT OFFICE

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RACK

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In industrial plants it is often desirable to form racks which may be used for ordinary purposes as shelving. The present invention may be so used but it is particularly designed and adapted for use in connection with ovens or similar devices into which material is placed and removed. To this end, the shelving or rack is built upon a platform truck so that it may be lifted by the ordinary elevating shop truck, moved into the oven and returned from it. Such racks are subjected to very severe duty. Details and features of the invention will appear more fully from the specification and claims.

The invention is illustrated in the accompanying drawings as follows:—

Fig. 1 shows a front elevation of the rack.

Fig. 2 a section on the line 2—2 in Fig. 1.

Fig. 3 a section of one of the supporting rods and a part of one of the shelves resting thereon.

1 marks the legs. Front and rear rails 2 are secured to the faces of these legs by rivets 2^a. The upper ends of the legs have heads 1^a which extend into cross rails 3, these cross rails being in the form of channels and the head extending into the base of the channel. Cross beams 4 rest on the front and rear rails and bridge the space between. They are secured to the rails by bolts 4^a. Angle plates 5 are secured to the side rails 3 by rivets 5^a, the rivets 5^a extending through the angle plates, side rails and heads 1^a. Posts 6, preferably of channel iron, are secured to the angle plates by rivets 6^a. The posts are connected at the top by diagonal angle plates 7 secured at the center by a joining plate 7^a.

Supporting socket plates 8 are secured to the posts by rivets 8^a. These have a central rib 8^b and branches 8^c extend from each side of the rib forming stepped staggered sockets 8^d. These sockets are open in a direction at right angles to the face of the post on which the plates 8 are secured and thus the sockets on one post oppose similar sockets on the opposing post and supporting rods 9 rest in these sockets bridging the space between the posts. The branches of one socket do not reach the branch of the next socket above this leaving lateral openings facilitating the ad-

justment of the rods from one socket to another. Shelves 10 rest on the supporting rods, these shelves being preferably formed in sections and extending from front to rear of the rack. Shelves 10^a are placed on the rails 3 and beams 4 forming a bottom shelf.

The rods may be readily adjusted. Either rod may be lifted sufficiently to carry it out of its socket and when lifted sufficiently high will pass the rib 8^b so that it may be put into the socket at the opposite side of the rib if desired, or it may be lifted to the next socket at the same side of the rib. Thus the space between the shelves may be readily adjusted and this adjustment is facilitated by the sectional arrangement of the shelves. In order to prevent the displacement of the shelves on the rod the shelves are provided with shoulders 11 which are adapted to engage the rods and thus lock the shelves in place on the rods.

What I claim as new is:—

1. In a rack, the combination of corner posts; staggered sockets on the inner faces of the posts, the sockets opening inwardly and laterally; supporting rods in the sockets, said rods extending at right angles to the inner faces of the posts; and shelves on the rods.

2. In a rack, the combination of corner posts; staggered sockets on the inner faces of the posts, the sockets opening inwardly and laterally; supporting rods in the sockets, said rods extending at right angles to the inner faces of the posts; and shelves on the rods, said shelves being formed in sections, some of the sections being remote from the posts.

3. In a rack, the combination of corner posts; vertical ribs arranged on the inner faces of the posts with branches extending from each side of the ribs forming staggered sockets at the opposite sides of the ribs, said sockets opening inwardly and laterally; and supporting rods in the sockets, said rods extending at right angles to the inner faces of the posts.

4. In a rack, the combination of corner posts; a plurality of socket plates secured to the inner faces of the posts, each plate having rod supporting sockets, said sockets be-

ing formed by ribs on the inner faces of the
plates and opening inwardly and laterally;
and rods arranged in said sockets, said rods
extending at right angles to the inner faces of
the posts.

5 In testimony whereof I have hereunto set
my hand.

HARRY S. TAYLOR.

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