

J. F. ESKILDSON.
FOLDING OVEN RACK.
APPLICATION FILED APR. 23, 1909.

953,128.

Patented Mar. 29, 1910.

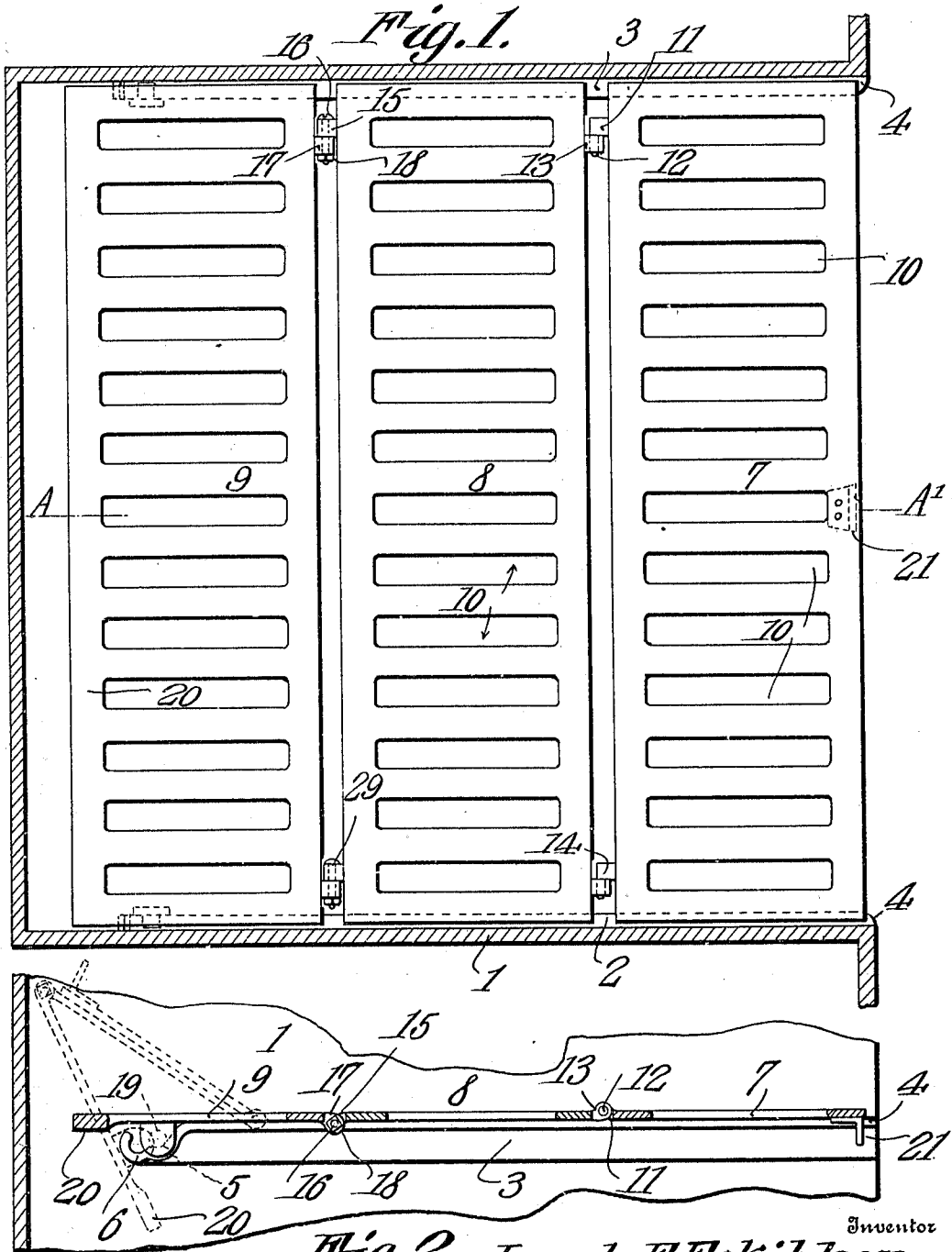


Fig. 2. Joseph F. Eskildson.

Witnesses

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UNITED STATES PATENT OFFICE.

JOSEPH F. ESKILDSON, OF MALDEN, MASSACHUSETTS.

FOLDING OVEN-RACK.

953,128.

Specification of Letters Patent.

Patented Mar. 29, 1910.

Application filed April 23, 1909. Serial No. 491,682.

To all whom it may concern:

Be it known that I, JOSEPH F. ESKILDSON, a citizen of the United States, residing at Malden, in the county of Suffolk and State of Massachusetts, have invented a new and useful Folding Oven-Rack, of which the following is a specification.

My invention relates to foldable oven racks, and has for its object to provide a device of this kind in which the rack when folded lies back against the back of the oven, whereby the oven door is not strained as in the usual style of foldable oven rack which folds against the door.

Another object is to provide a device of this kind, which will itself complete the process of folding as soon as given an impulse with a poker or other implement.

Still another object is to provide a device of this kind which the attendant need never touch with his hand to place in operative position which is of considerable importance when the oven is hot at the time this operation must be performed.

With these and other objects in view, which will be shown in the following specification and set forth in the claims, my invention embraces the structure illustrated in the accompanying drawing, wherein:—

Figure 1 is a plan view of the rack in operative position. Fig. 2 is a cross section through A—A' with the rack shown dotted in normal position.

In a more detailed description of my invention in which like characters of reference designate similar parts in the views shown, (1) designates the walls of a stove oven of the usual kind, having the rails (2) and (3) disposed transversely on the opposite sides midway the top and bottom. Each rail consists essentially of an angle iron suitably secured to the side of the oven, and having the front end (4) terminating at the front edge of the side of the oven. The rear end of this angle iron is bent downward to form a depression (5), the purpose of which will hereafter be explained, and terminates in a bracket (6) which forms a support for the rack when it is folded against the back wall of the oven.

The rack is composed of three or more sections, (7), (8) and (9), according to the depth of the stove oven it is required to fit, and the sections should be sufficient in number to have the front edge of the first section even with the front edge of the oven in order

that the attendant will not have to reach back into a heated oven. The sections are provided with a plurality of slots (10), arranged transversely in order that the heated currents of air may freely circulate in the oven, and are substantially the width of the oven in length and adapted to have a sliding motion on the side rails and walls of the oven adjacent thereto. The section (7) is provided on its inner side with a lug (11), disposed adjacent its end, said lug having a transverse pivot pin (12) adapted to engage a corresponding lug (13) formed on the section (8) thereby pivotally connecting sections (7) and (8) by a hinge joint. A similar hinge joint pivotally secures the opposite end of sections (7) and (8) as shown at (14). The section (8) is provided at one end adjacent the side wall of the oven with a lug (15) having an annular opening formed transversely therein, adapted to receive the bolt (16) which is sufficient in length to engage a lug (17) formed on section (9), and terminates in a screw threaded end adapted to receive the nut (18) thereby pivotally securing sections (8) and (9) by a hinge joint. A similar hinge joint pivotally secures the opposite ends of sections (8) and (9) as shown at (29).

It may be readily seen that by this arrangement of hinge joints, if the attendant desires to have a plurality of different sized vessels in the oven at the same time, he can slide out the rack till the front section projects over the front edge of the oven and shove the section sideways till the engaging pins disengage from the lugs in the second section, when the first section may be removed altogether and the remaining sections shoved back in operative position and used as a rack in the rear of the oven while the whole height of the front of the oven is available for vessels requiring this height.

A lug (19) is formed on the lower side of section (9), adjacent the side of the oven, having a transversely disposed projection, adapted to slidingly fit the rail (3) and to conform to the contour of the depression (5) when in operative position, and the contour of the bracket (6) when in normal or upright position. The opposite end of section (9) is provided with a similar lug, similarly placed and adapted to engage the rail (2) on the opposite side of the oven in a like manner. The section (9) has its rear end (20) thickened, to facilitate tipping the

section when the other sections are shoved back against it as is the case when it is desired to fold the rack back against the rear wall of the oven. A ring (21) is secured to the under side of section (7) intermediate its ends, the purpose of which is to enable the attendant to fold the rack back by inserting a poker or other implement in the ring, and so will not be compelled to touch the parts with his hands when placing the rack either in normal or operative position.

The operation of the device is as follows: The rack rests, when in operative or extended position, on the transverse side rails, secured to the opposite sides of the oven. When it is desired to use the whole height of the oven, a poker is inserted in the eye of the dependent ring on the front edge of the first section and the section shoved back. The motion is transmitted through the intermediate sections to the last section and the heavy rear end of this section depressed, thereby causing the engaging lugs formed on its under surface to slide from their seats and drop down into the hooks on the side rails. The heavy rear end of this section accelerates this tipping movement, the front end of the section being tilted back against the rear wall of the oven. The second section will be carried back with it and will assume the position shown in Fig. 2. All that is necessary is to rest the first section back against the second and the rack is compactly folded against the rear wall of the oven. In order to place the rack in operative position, the poker or other implement is inserted in the ring and the first section dropped down on the side rails, when an outward pull will cause the remaining sections to follow the first and slide along the rails into operative position.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of my invention will be easily understood without

a more extended explanation, it being understood that various changes in the form, proportion and minor details of the invention may be made, without sacrificing any of the advantages or departing from the spirit of the invention.

Having described my invention, what I claim is:—

1. The combination with a stove oven, of a foldable rack slidably mounted in the oven and detachably pivoted thereto at its inner end.

2. The combination with a stove oven of side rails, transversely disposed on the sides of said oven, midway the top and bottom, terminating at one end in a double bracket, a foldable, sectional rack, adapted to have a sliding motion on said side rails, said sectional rack having one section provided with a means for pivotally securing said sectional rack in operative position on said side rails and for removing said sectional rack from same.

3. The combination with a stove oven of side rails transversely disposed on the opposite sides of said oven, each of said rails terminating at the inner end in an inclined bracket, said bracket having a shoulder formed midway its length and terminating in a hook, a foldable, sectional rack, adapted to have a sliding motion on said rails, the outer section being provided with an eye pendent therefrom, the inner section being provided on its under side with lugs adapted to slidably fit the shoulders of said brackets, and to pivotally secure said section in the hooks of said brackets, whereby to facilitate the removal of the rack from operative position, substantially as described.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

JOSEPH F. ESKILDSON.

Witnesses:

JOHN H. JACKSON,
WM. M. SMITH.