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A. J. REEDY ET AL

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OVEN AND OVEN SHELF

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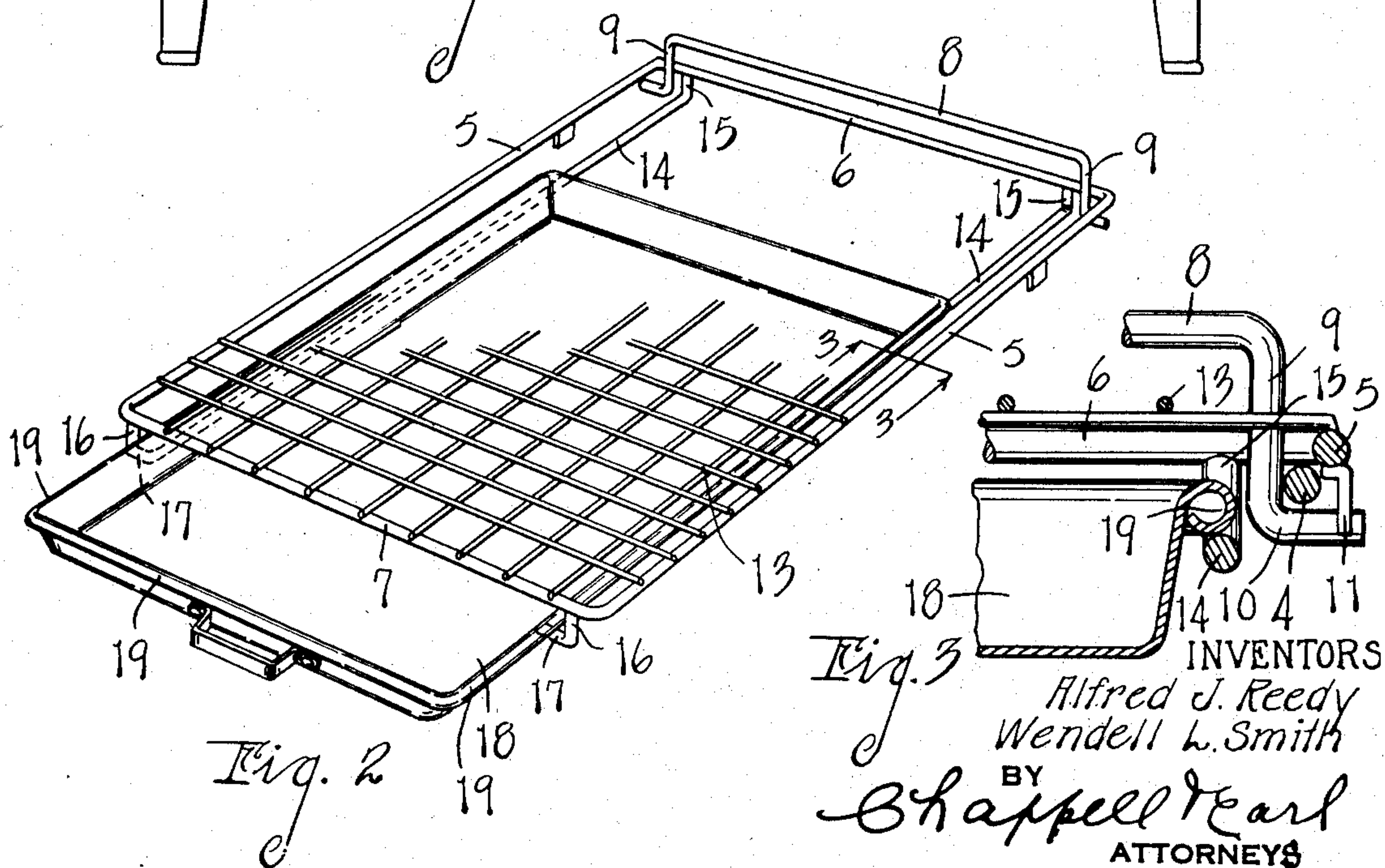
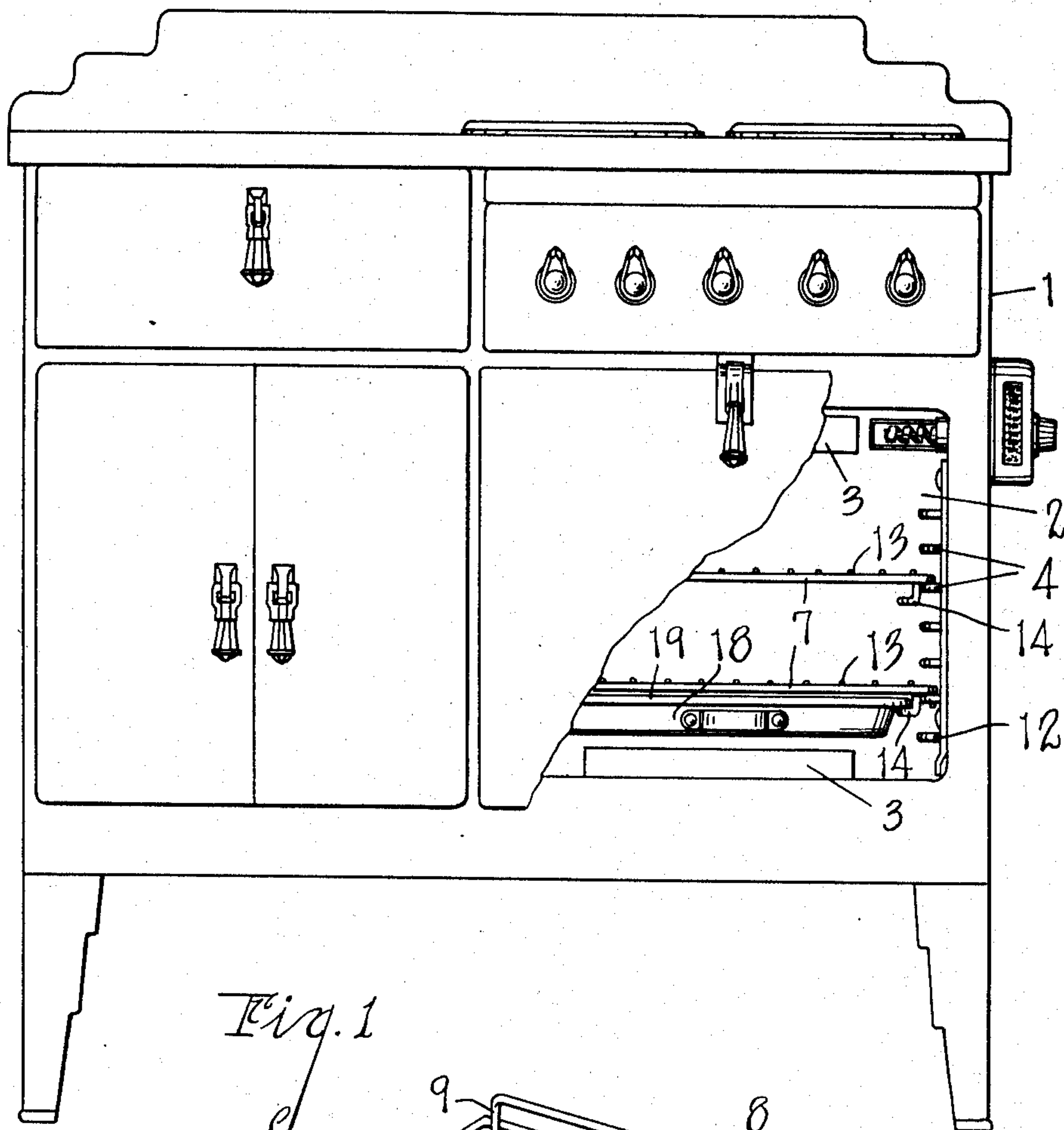


Fig. 3
INVENTORS
Alfred J. Reedy
Wendell L. Smith
BY
Chappell & Earl
ATTORNEYS

UNITED STATES PATENT OFFICE

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OVEN AND OVEN SHELF

Alfred J. Reedy and Wendell L. Smith, Battle Creek, Mich., assignors to A-B Stove Company, Battle Creek, Mich., a corporation of Michigan

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7 Claims. (Cl. 126—339)

The main objects of this invention are:

First, to provide a combined oven shelf and drip pan combination which is capable of a wide range of adjustment to meet varying conditions or to adapt for various uses.

Second, to provide a structure having these advantages, which is very easily manipulated.

Third, to provide a combined shelf and drip pan unit in which the drip pan is removably and slidably supported and serves not only as a drip pan but as a deflector plate when the shelf is used for certain purposes.

Objects pertaining to details and economies of our invention will definitely appear from the description to follow. The invention is defined in the claims.

A structure which embodies the features of our invention is clearly illustrated in the accompanying drawing, in which:

Fig. 1 is a front elevation of a cooking stove or range embodying the features of my invention.

Fig. 2 is a fragmentary perspective view of one of the combined shelf and drip pan units, the shelf being removed from the oven and the drip pan being partially withdrawn from its supports.

Fig. 3 is an enlarged fragmentary section on line 3—3 of Fig. 2.

In the accompanying drawing, a cooking stove or range 1 is provided with an oven 2 having a suitable burner indicated conventionally at 3. The oven has a vertical series of shelf rails 4 preferably formed of light rods or wire as illustrated.

Our improved rack comprises a border frame consisting of side members 5, a rear member 6 and a front member 7, preferably formed integrally as shown in Fig. 2. These members are formed of light rod bent into suitable shape and the ends joined, the joint not being illustrated as it is preferably effected by welding.

The rear cross member 8 is disposed above the rear frame member 6 and is provided with down-turned arms 9 at its ends which are welded to the rear cross member. These arms terminate in outwardly projecting lugs 10 which extend below the rails and constitute lugs limiting the downward tilting movement of the front end of the shelf when it is pulled outwardly on the rails. The side members of the frame are provided with stops 11 which coast with the front ends 12 of the rails, limiting the outward movement of the shelf thereon.

The wire grid 13 is secured to the top of the frame. The cross member 8 serves as an abutment so that any object on the shelf cannot slip

off the rear end thereof when the shelf is drawn forwardly.

The shelf is provided with a pair of drip pan rails 14 having upturned rear ends 15 welded to the rear cross piece 6, and upturned front ends 16 welded to the cross piece 7, the upturned ends 16 being laterally offset at 17.

The pan 18 is provided with an out-turned rim 19 which slidably engages these rails so that the pan is removably and slidably supported thereon. The upturned portions 15 at the rear ends of the rails serve as stops limiting the rearward movement of the pan.

We preferably provide a plurality of shelves as illustrated. The shelves may be selectively engaged with the rails and the pan selectively engaged with the shelves, so that the shelves may be adjusted as desired within the oven to best adapt them to the material to be cooked, or the articles to be cooked may be placed directly within the pan, thereby providing a combined baking, broiling or roasting pan, a cooky pan, or the like.

We have described and illustrated our improvements in an embodiment which we have found very practical. We have not attempted to illustrate or describe other embodiments or adaptations of our invention, as it is believed that this disclosure will enable those skilled in the art to embody or adapt our improvements as may be desired.

Having thus described our invention what we claim as new and desire to secure by Letters Patent is:

1. The combination with a compartment provided with a plurality of coacting pairs of shelf rails, a plurality of shelves selectively engageable with and slidable upon said rails, each shelf comprising a frame having front, rear and side members and a grid secured to said frame, a rear cross member disposed above the rear member of the frame and having down-turned arms at its ends secured thereto, the arms terminating in out-turned lugs projecting below the rails on which the shelf is supported to limit the downward tilting movement of the front end of the shelf, stops on the frame side members coacting with the front ends of the rails to limit the forward sliding movement of the shelf thereon, pan-supporting rails having upturned rear ends secured to the rear cross member of the frame and outwardly offset upturned portions at the front end secured to the front member of the frame, and a pan having an out-turned rim slidable on said pan-supporting rails, the upturned rear ends

of the rails constituting stops limiting the rearward movement of the pan on the said pan-supporting rails.

2. The combination with a compartment provided with a plurality of coacting pairs of shelf rails, a plurality of shelves selectively engageable with and slidable upon said rails, each shelf comprising a frame having front, rear and side members and a grid secured to said frame, stops on the frame side members coacting with the front ends of the rails to limit the forward sliding movement of the shelf thereon, pan-supporting rails having upturned rear ends secured to the rear cross member of the frame and outwardly offset upturned portions at the front end secured to the front member of the frame, and a pan having an outturned rim slidable on said pan-supporting rails, the upturned rear ends of the rails constituting stops limiting the rearward movement of the pan on the said pan-supporting rails.

3. The combination with a compartment provided with a plurality of coacting pairs of shelf rails, a plurality of shelves selectively engageable with and slidable upon said rails, each shelf comprising a frame having front, rear and side members and a grid secured to said frame, a rear cross member disposed above the rear member of the frame and having down-turned arms at its ends secured thereto, the arms terminating in out-turned lugs projecting below the rails on which the shelf is supported to limit the downward tilting movement of the front end of the shelf, and stops on the frame side members coacting with the front ends of the rails to limit the forward sliding movement of the shelf thereon.

4. The combination with an oven or like compartment provided with shelf rails, of a shelf comprising a frame having front, rear and side members and a grid secured to said frame, a rear cross member disposed above the rear member of the frame and having down-turned arms at its ends secured thereto, the arms terminating in out-turned lugs coacting with the rails on which the shelf is supported to limit the downward tilting movement of the front end of the shelf, stops on the frame side members coacting with the

front ends of the rails to limit the forward sliding movement of the shelf thereon, pan-supporting rails having upturned rear ends secured to the rear cross member of the frame and outwardly offset upturned portions at the front end secured to the front member of the frame, and a pan having an outturned rim slidable on said pan-supporting rails, the upturned rear ends of the rails constituting stops limiting the rearward movement of the pan on the said pan-supporting rails.

5. The combination with an oven or like compartment provided with shelf rails, of a shelf comprising a frame having front, rear and side members and a grid secured to said frame, pan-supporting rails having upturned rear ends secured to the rear cross member of the frame and outwardly offset upturned portions at the front end secured to the front member of the frame, and a pan having an outturned rim slidable on said pan-supporting rails, the upturned rear ends of the rails constituting stops limiting the rearward movement of the pan on the said pan-supporting rails.

6. The combination with a compartment provided with a plurality of coacting pairs of shelf rails, a plurality of shelves selectively engageable with and slidable upon said rails, pan-supporting rails having upturned rear ends secured to the rear end of the shelf and outwardly offset upturned portions at their front end secured to the front of the shelf, and a pan slidable on said pan-supporting rails, the upturned rear ends of the rails constituting stops limiting the rearward movement of the pan on said pan-supporting rails.

7. The combination with a compartment provided with shelf rails, a shelf slidable upon said rails, pan-supporting rails having upturned rear ends secured to the rear end of the shelf and outwardly offset upturned portions at their front end secured to the front of the shelf, and a pan slidable on said pan-supporting rails, the upturned rear ends of the rails constituting stops limiting the rearward movement of the pan on said pan-supporting rails.

ALFRED J. REEDY. 120
WENDELL L. SMITH.

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