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COLLAPSIBLE STOVE SHELF AND GREASE GUARD.

APPLICATION FILED APR. 9, 1910. RENEWED JUNE 12, 1911.

1,001,383.

Patented Aug. 22, 1911.

Fig. 1.

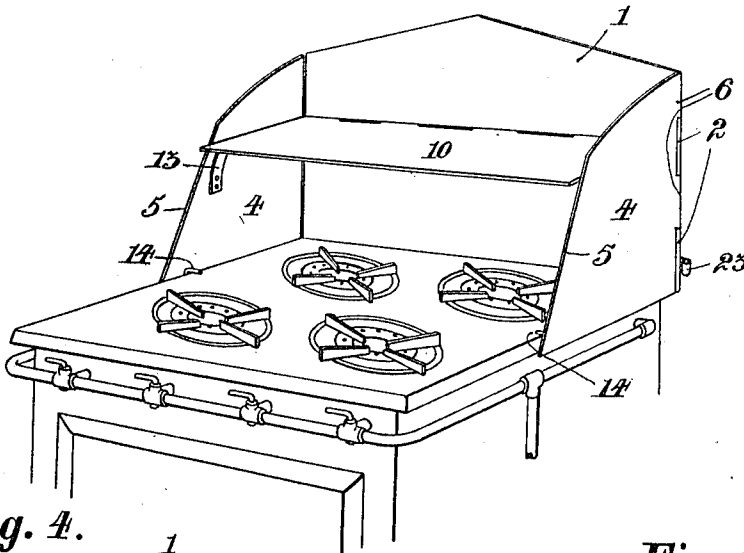


Fig. 4.

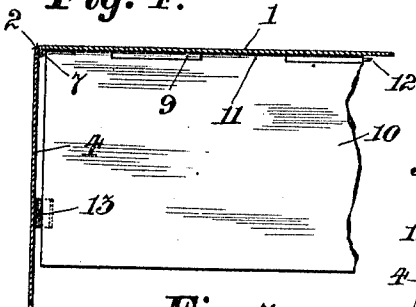


Fig. 2.

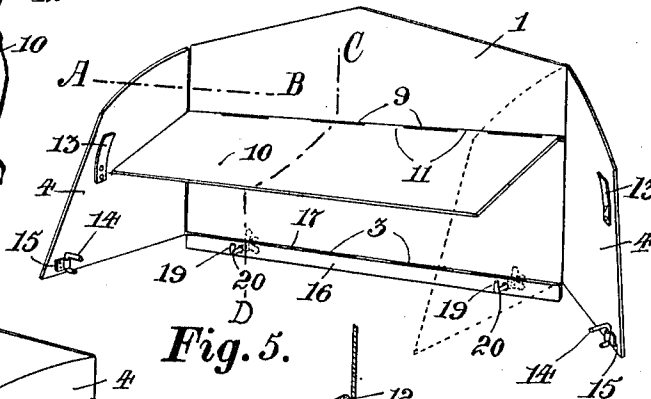


Fig. 3.

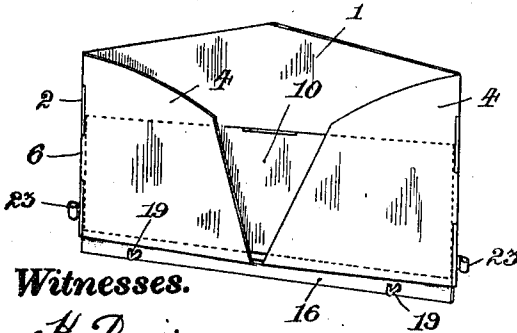
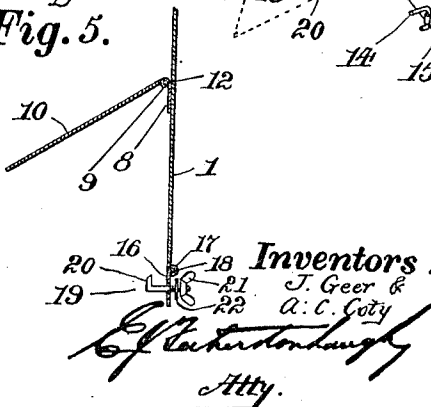


Fig. 5.



Witnesses.

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UNITED STATES PATENT OFFICE.

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COLLAPSIBLE STOVE-SHELF AND GREASE-GUARD.

1,001,383.

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To all whom it may concern:

Be it known that we, JOHN GEER and ALFRED CLEMENT COTY, citizens of the United States of America, and residents of Hudson Falls, formerly Sandy Hill, in the county of Washington, in the State of New York, one of the United States of America, have invented certain new and useful Improvements in Collapsible Stove-Shelves and Grease-Guards; and we do hereby declare that the following is a full, clear, and exact description of the same.

The invention relates to improvements in collapsible stove shelf and grease guard, as described in the present specification and illustrated in the accompanying drawings that form part of the same.

The invention consists essentially in the novel arrangement and construction of parts whereby a back plate having wings hinged thereto and supporting a shelf, is adapted, with said wings and shelf in a folded state, to swing downwardly completely out of the way.

The objects of the invention are to devise an effective form of grease guard which at the same time will be of great convenience in the way of a shelf at the back of the stove so that the grease sputtering from the food cooking on the stove will not mark the wall or other adjacent surface, and to provide an article of the class mentioned which can readily be put out of the way in a temporary manner when it is desired to do so.

In the drawings, Figure 1 is a perspective view of the top of a gas stove, showing the grease guard and shelf in position thereon. Fig. 2 is a perspective detail of the grease guard showing the parts thereof partially open preparatory to folding. Fig. 3 is a perspective view showing a detail of the grease guard and shelf having the shelf and wings folded. Fig. 4 is an enlarged cross sectional view through the vertical hinge on the line A—B in Fig. 2. Fig. 5 is an enlarged cross sectional view through the horizontal joint on the line C—D in Fig. 2.

Like numerals of reference indicate corresponding parts in each figure.

Referring to the drawings, 1 is the main back plate having the extending pieces 2 at each end thereof curled around and forming barrel portions of a hinge joint and extending pieces 3 at the bottom thereof curled

around and forming barrel portions of a hinge joint.

4 are wings preferably having the sloping front sides 5 and extending pieces 6 from the back edge thereof curled around and forming barrel portions of the hinged joint fitting in between the barrel portions 2 on the back plate, said hinged joints being completed by the rods 7.

8 is a strip of metal securely riveted to the back plate 1 intermediate of the height thereof and having forwardly extending pieces 9 curled to form barrel portions of a hinge joint.

10 is a shelf having the extending pieces 11 curled and forming barrel portions of the hinged joint to fit in between the barrel portions 9, the said hinged joint being completed by a rod 12.

13 are brackets rigidly secured on the inner side of the wings 4 intermediate of the height of said wings and formed of spring sheet metal, said brackets being adapted to support the front part of the shelf 10 from the under side.

14 are catches pivotally secured in the brackets 15, said brackets being rigidly fastened to the wings 4 on the inner side and toward the outer edge, said catches turning in said brackets and adapted to extend above and below the outer flange of the stove guard and shelf when set in position on the stove.

16 is the supporting strip having the extending pieces 17 curled and forming barrel portions of a hinge joint and adapted to fit in between the barrel portions 3 on the main back plate 1, said hinge joint being completed by the rod 18.

19 are the bolt members of the fastening clamps extending through the supporting strip 16 and having threaded shanks and claw heads 20.

21 are butterfly nuts turning on the threaded ends of the bolt members 19.

22 are washers immediately to the inside of the butterfly nuts 21 on the bolt members 19.

It will be thus seen that the supporting strip 16 may be securely clamped to the flange at the back of the stove by inserting the claw heads 20 to the inside of said flange and screwing up tightly the but-

ter-fly nuts 21. In this way the grease guard and shelf is firmly secured to the stove and with the main back plate put in its upright position, the wings are folded 5 to the side of the stove so that the catches 14 engage the side flange of the stove, the shelf is slipped up so that the spring supports will carry it from the underside.

In collapsing the grease guard and shelf, 10 the wings are moved out first from the side of the stove and the shelf folded down, then the wings folded over the shelf after the back plate has been tipped rearwardly, slightly, the whole thing then may be folded 15 down behind the stove in its collapsed state.

23 are metal stops, rigidly secured to the rear surface of the back plate 1 and having a curled end extending beyond said back plate at each side thereof in order to meet 20 the wings if thrown back too far.

What we claim as our invention is:

1. In a collapsible stove shelf and grease guard, a main back plate, a supporting strip 25 hinged to said main back plate at the lower edge thereof, wings hinged to the side edges of said back plate and folding forwardly and inwardly, a shelf hinged to the front side of said back plate intermediate of the height thereof, spring brackets secured to 30 the inner side of said wings and supporting said shelf, catches secured to the inner side of said wings and adapted to engage the flange of the stove, and clamps adapted to secure said supporting strip to the flange of 35 the stove.

2. In a collapsible stove shelf and grease guard, a main back plate having extending 40 pieces from the side edges thereof curled and forming barrel portions of hinge joints and extending pieces from the lower edge

thereof, curled and forming barrel portions 45 of a hinge joint, wings having extending pieces therefrom curled and forming barrel portions of hinge joints and adapted to fit between the aforesaid barrel portions from 50 the side edges of said main back plate, rods completing said hinge joints, a supporting strip having extending pieces therefrom curled and forming barrel portions of a 55 hinge joint and adapted to fit in between said extending pieces from the lower edge of said main back plate, a rod completing the hinge joint at said lower edge, a strip of metal extending across the inner side of said back plate and rigidly secured thereto 60 and having curled pieces therefrom forming barrel portions of a hinge joint, a shelf having extending pieces therefrom curled and forming barrel portions of a hinge joint adapted to fit in between said pieces from 65 said strip on the back plate, a rod completing said shelf hinge joint, spring brackets rigidly secured to the inner side of said wings and supporting said shelf, catches 70 having inwardly extending pieces and adapted to engage the side flange of the stove and to swing in suitable brackets secured to said wings, and clamps having threaded bolt members and claw heads and butterfly nuts turning on the threaded portion and adapted to secure the supporting 75 strip to the flange of the stove.

Signed at Hudson Falls (formerly Sandy Hill), Washington county, New York, this 4th day of April 1910.

JOHN GEER.

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Witnesses:

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JAMES H. FISK.