

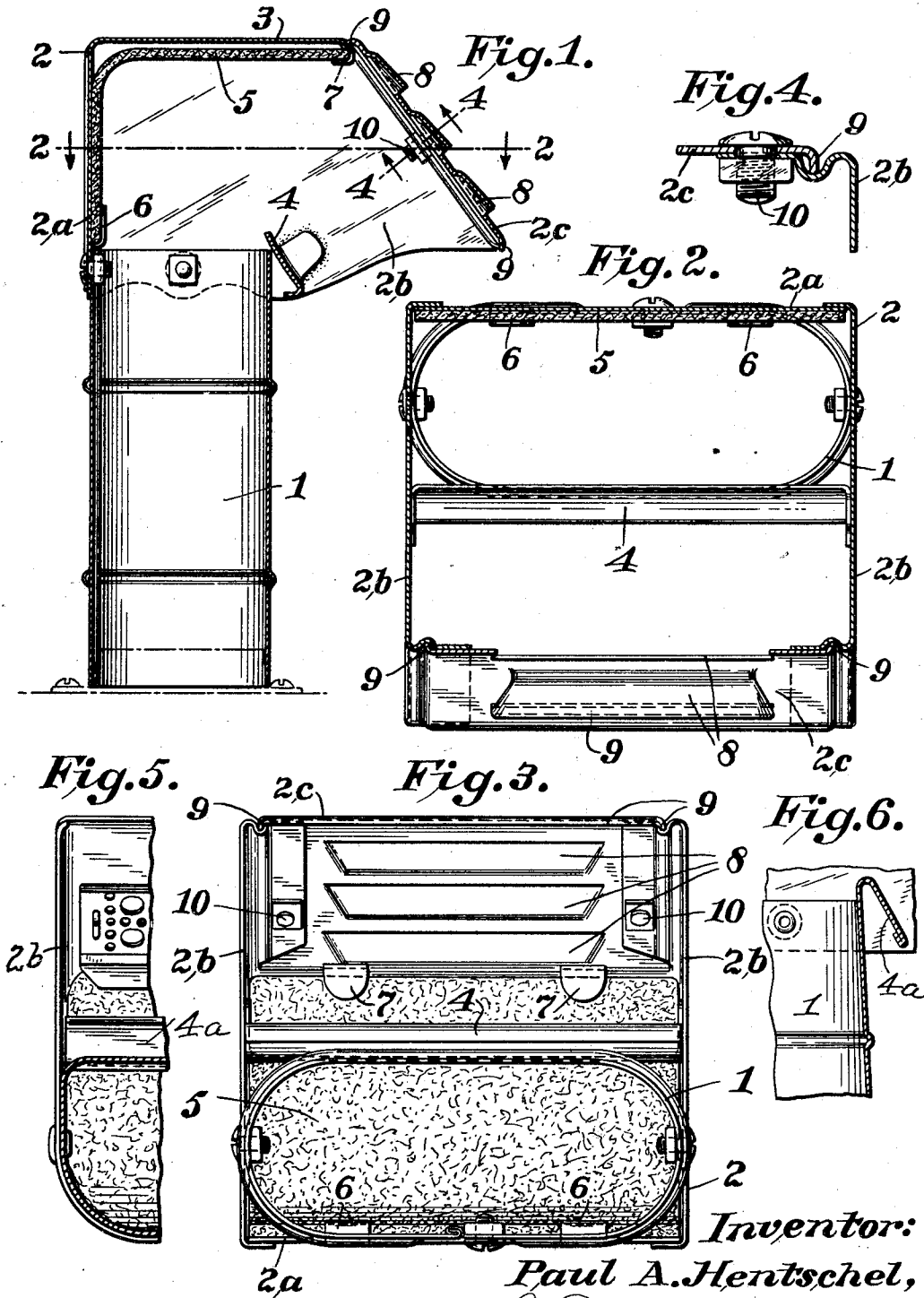
April 19, 1932.

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1,855,050

DEFLECTOR FOR GAS STOVES AND THE LIKE

Filed Feb. 24, 1931



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UNITED STATES PATENT OFFICE

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DEFLECTOR FOR GAS STOVES AND THE LIKE

Application filed February 24, 1931. Serial No. 517,938.

The invention relates to deflectors for gas stoves to direct the smoke and noxious products so as to dissipate them in substantial measure instead of allowing them to collect on the wall or precipitate upon the top of the oven.

The invention consists in the features and combination and arrangement of parts hereinafter described and particularly pointed out in the claims.

In the drawings,

Figure 1 is a vertical sectional view of the appliance taken in a plane from front to rear thereof.

Fig. 2 is a horizontal sectional view on line 2—2 of Fig. 1, and

Fig. 3 is a bottom plan view of the device.

Fig. 4 is a view of a detail.

Fig. 5 is a bottom plan view similar to Fig. 3, showing a modified form.

Fig. 6 is a vertical sectional view showing the modified form of Fig. 5.

In these drawings, 1 indicates the chimney portion of the appliance which is adapted to be supported on the rim surrounding the outlet from the oven. This chimney member is of substantially elliptical form in cross section. At its upper end is the hood or deflector member 2, which consists of back and side walls 2a, 2b suitably attached to the chimney portion and an overhanging upper portion 3 to arrest the upward flow of the fumes and direct them forwardly and downwardly away from the wall adjacent which the gas stove may be located. The upper wall of the hood is substantially horizontal and ordinarily there is a tendency for the heavier particles of the fumes on striking this upper horizontal portion of the hood to be precipitated in a downward direction along the front wall of the chimney and finally collect upon the top of the oven.

In order to prevent this I provide a guard or supplementary deflector at the lower part of the hood and at the front thereof as shown at 4. This deflector is in the form of a suitable plate extending from side wall to side wall 2b, 2b of the hood and secured thereto in any suitable manner as by spot welding.

This guard inclines downwardly and out-

wardly and its effect is to direct any particles precipitating from the fumes after striking the upper part of the hood outwardly so that the fumes will be dissipated into the air instead of falling directly downward along the front of the chimney and collecting on the top plate of the oven.

This guard lies adjacent the upper edge of the chimney portion of the appliance and inclines downwardly and forwardly in respect to the front wall of the chimney. The guard is formed of sheet metal with its lower edge turned downwardly and inwardly to provide a rounded edge. The main part of the guard is slightly concaved or dished so that any particles striking thereon will be better directed forwardly and away from the appliance.

The hood may be built of a single piece so far as its back, top and sides are concerned and its inclined front 2c may be in a separate piece bolted to inturned flanges of the sides.

I provide an asbestos sheet or pad at 5 to line the back wall and top wall of the hood, this sheet being held by tongues 6 struck up from the back wall, and tongues 7 extending from the top wall rearwardly. The front panel 2c which carries the louvres 8 is formed as a separate piece and has inturned flanges 9, the lateral ones of which seat in depressions in the inturned flanges extending from the side walls of the hood. This panel is secured in place to these flanges by the screw bolts 10.

As shown in Figs. 5 and 6, instead of using the guard formed from a separate piece attached to the side walls of the hood, I may form the guard integral with the wall of the chimney as shown at 4a. This will serve to strengthen the wall of the chimney against deformation. This guard 4a will extend from one side face of the chimney to the other, or in other words, it will extend from one side wall 2b of the hood to the other side wall thereof.

I claim:

1. A deflector for the fumes from gas stoves comprising a hood having a discharge opening to direct the fumes, and a guard extending across said discharge opening at

the lower part thereof inclining downwardly and outwardly, substantially as described.

2. A deflector according to claim 1 in which the hood is composed of back and side walls with a horizontal top and downwardly inclined front wall, with the said guard extending between the lower parts of the side walls and spaced apart from the lower edge of the inclined front wall.

3. A deflector according to claim 1 in which the hood is composed of back and side walls surmounted by a horizontal top and an inclined front wall, the said guard being a separately formed piece attached to the said side walls.

4. A deflector for the purpose described comprising a chimney portion, a hood portion formed as a separate piece and attached to the upper part of the chimney portion and a guard extending from side to side of the hood and in front of the upper end of the chimney, said guard extending downwardly and outwardly, substantially as described.

5. A deflector for gas stoves and the like comprising a chimney having a hood at the upper end thereof reaching over said chimney and extending beyond the front thereof with a downwardly and outwardly inclining front wall, and a guard inclining downwardly and outwardly and lying between the sides of the hood and in front of the upper end of the chimney, substantially as described.

6. A deflector for gas stoves and the like comprising a hood having side, back and top walls, with flanges turned inwardly from the side walls and inclining downwardly and forwardly, and a louvre plate attached to said flanges, the intumed flanges of the side walls having depressions intermediate their length, the louvre plate having flanges resting in said depressions, substantially as described.

7. A deflector for gas stoves comprising a chimney, a hood surmounting said chimney, and a guard integral with the upper edge of the front wall of the chimney and extending from side to side of said chimney, the said integral guard being bent downwardly and forwardly at an inclination from the upper edge of the chimney walls, substantially as described.

In testimony whereof, I affix my signature.
PAUL A. HENTSCHEL.

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