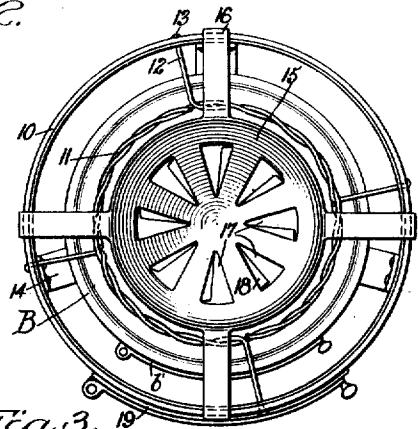
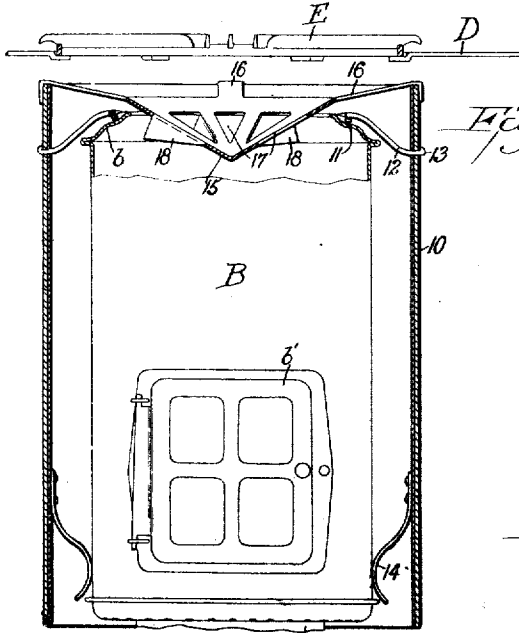
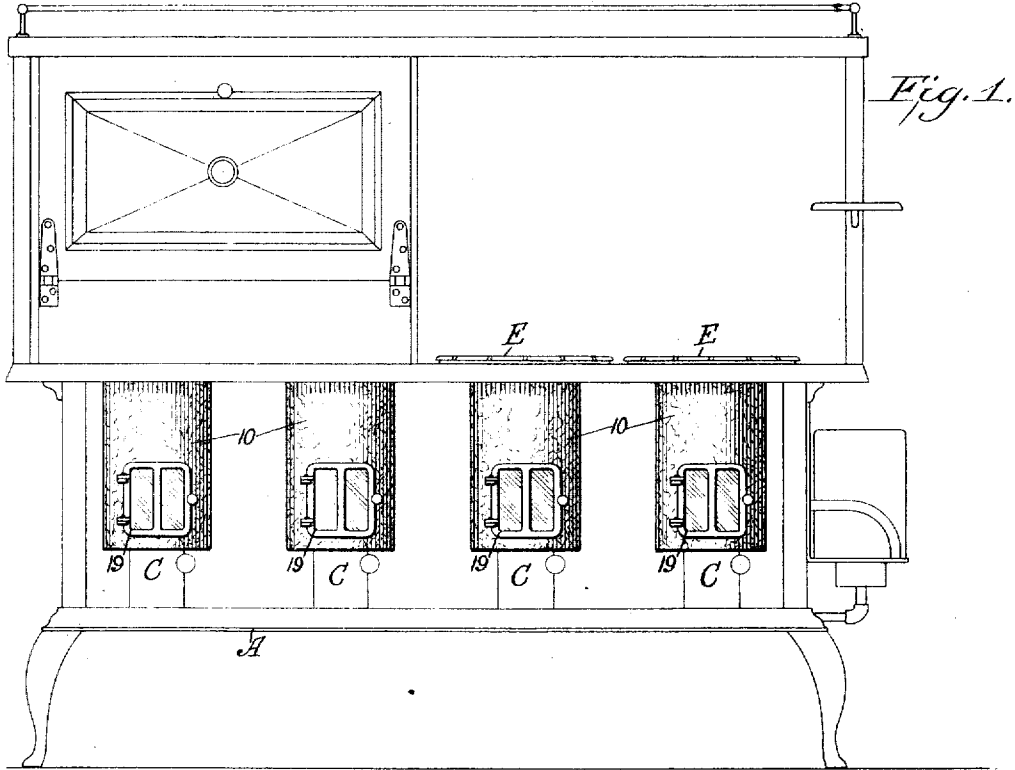


J. T. KELLEY.
 OIL STOVE ATTACHMENT.
 APPLICATION FILED OCT. 24, 1917.

1,268,013.

Patented May 28, 1918.



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OIL-STOVE ATTACHMENT.

1,268,013.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JAMES T. KELLEY, a citizen of the United States, and a resident of West Rush, in the county of Monroe and State of New York, have invented a new and Improved Oil-Stove Attachment, of which the following is a full, clear, and exact description.

My invention relates more particularly to oil cook stoves. In the use of oil cook stoves the burners develop a high degree of heat but much of it is radiated laterally by the chimney of the burner and also, the heat is not carried by the chimney close to the burner grid which is spaced a material distance above the top flange with which the chimneys are usually provided.

The prime object of my invention is to provide a jacket of non-heat-conducting material to be applied to the chimney of an oil stove and spaced therefrom, whereby to prevent any material radiation of the heat from the chimney into the room, and arranged to be supported on the top of the chimney in a manner to dispose the top of the jacket above the chimney to deliver the heat sufficiently close to the grid.

A further object of the invention is to provide in connection with the jacket as characterized a heat deflector that will permit a proper proportion of the heat to pass directly through the grid at the center while deflecting a portion of the heat laterally in all directions, so that the heat will not be concentrated at the center of the cooking vessel as is done at present.

Other objects of the invention and the advantages of my attachment will appear as the description proceeds.

Reference is to be had to the accompanying drawings forming a part of this specification in which similar reference characters indicate corresponding parts in all the views.

Figure 1 is a front elevation of an oil cook stove having the burners thereof equipped with my attachment;

Fig. 2 is an enlarged transverse section of the attachment showing the same applied to a stove chimney, a portion of which is broken away, the view showing a fragment of the stove plate with one of the grids thereof in transverse vertical section;

Fig. 3 is a plan view of the attachment applied, the stove plate and grid being omitted.

In the drawings the letter A indicates an oil cook stove of known construction; B, a chimney of one of the burners; C, the oil reservoirs; and D, the stove plate having the grids E on which the cooking vessels are placed.

In carrying out my invention a cylindrical jacket 10 is provided of non-conducting material, the illustrated form comprising two layers, the outer layer in practice being made of paper while the inner layer is of asbestos, it being understood that the material can be varied. In order to support the jacket on the top of the chimney B and spaced from the sides of the latter, I provide a hanger which advantageously is in the form of a wire ring 11 adapted to rest on the top flange *b* of the chimney. The ring affords an open center for the passage of the products of combustion from the chimney to the grid. In the illustrated form the ring 11 is secured to the jacket 10 by radial arms 12 riveted or otherwise secured at their outer ends to the jacket as at 13. The ring in the form illustrated is composed of a single annular wire or rod which is twisted with separate wires carrying pairs of arms 12. The numeral 14 indicates curved plate springs secured at one end to the jacket 10 at the interior and adapted to bear at their inner ends against the sides of the chimney B, said rings and the arms 12 serving to properly center the jacket on the chimney. The hanger 11, 12 is so positioned as to dispose the ring below the top of the jacket 10, whereby the said top will project above the top of the chimney B to carry the products of combustion from the chimney closer to the grid E than is done by the chimney itself.

In order to prevent heat from the chimney being concentrated at the center of the cooking vessel on the grid E, I provide a deflector 15 of inverted cone-shape and provide means to support the same at the center in line with the center of the grid, the illustrated means consisting of radial arms 16 extending from the deflector to the upper edge of the jacket 10. The heat deflector 15 is formed with an annular series of openings 17 to permit the direct passage of heat toward the center of the grid E, while at the under side of the deflector I form thereon wings 18 of such form and at such an angle as to direct a certain portion of the heat currents laterally past the outer edge of the

deflector toward the outer edge of the grid, and hence toward the outside of the cooking vessel. Advantageously, the openings 17 are triangular and the material of the deflector is stamped out in a downward direction to produce both the said openings and the wings 18.

I wish to state in conclusion that although the illustrated example constitutes a practical embodiment of my invention, I do not limit myself strictly to the mechanical details herein illustrated, since manifestly the same can be considerably varied without departure from the spirit of the invention as defined in the appended claims.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent:

1. An attachment for oil cook stoves, including a cylindrical jacket adapted to be removably positioned on the stove chimney to inclose the same, a hanger at the interior of the chimney, said hanger comprising a ring below the top of the jacket adapted to

rest on the chimney at the top and having 25 radial arms extending from said ring to the jacket and secured to the latter, and curved plate springs secured to the jacket at the interior near the bottom and free at their ends to yieldingly bear against the sides of 30 the chimney.

2. An attachment for oil stoves including a cylindrical jacket adapted to be removably positioned on the stove chimney to inclose the same, a hanger on the jacket below the top thereof to support the jacket on the chimney, a heat deflector in the form of an inverted cone formed with radial openings therein for the direct upward passage of heat, radial wings on the deflector at the openings along one side of each opening, and spaced supporting arms on said deflector and extending therefrom outward to the jacket above said hanger to sustain the deflector on the jacket above and clear of the chimney. 45

JAMES THOMAS KELLEY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."