April 29, 1930. H. P. DOWLER 1,756,511

FIREPLACE

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Fig. 1.

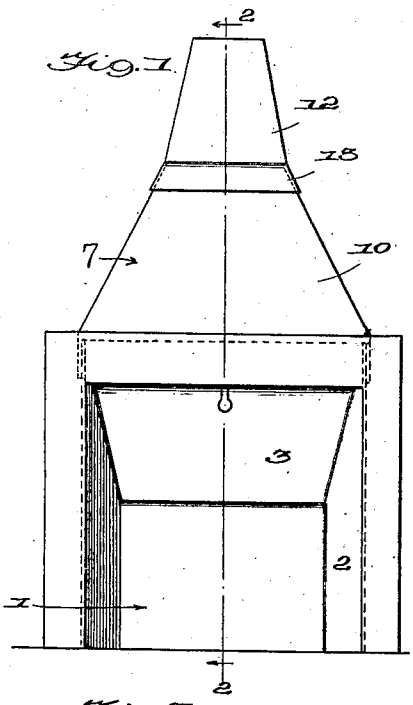



Fig. 2.

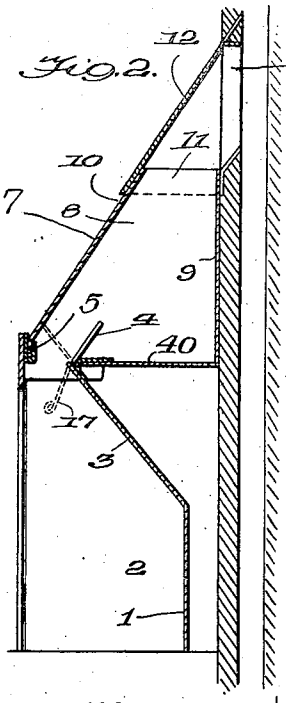



Fig. 3.

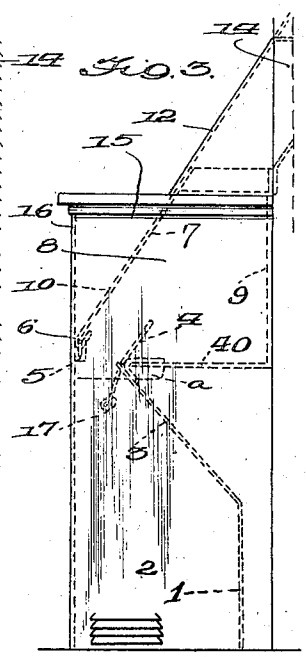



Fig. 4.

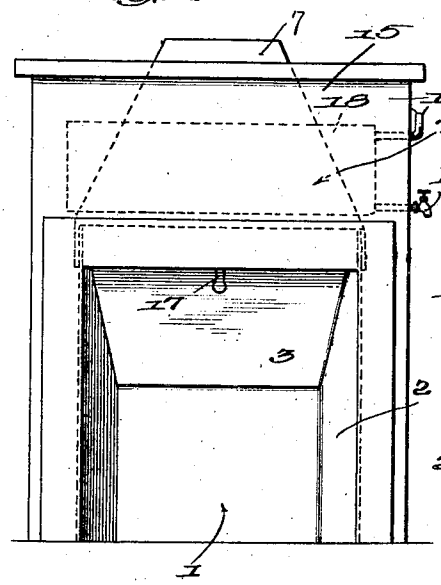



Fig. 5.

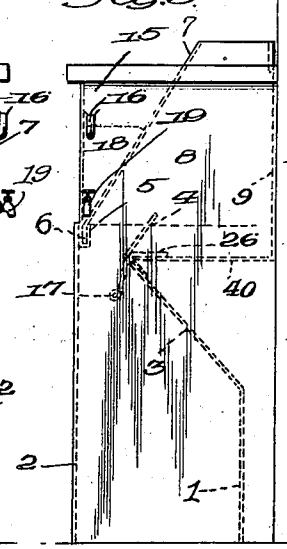
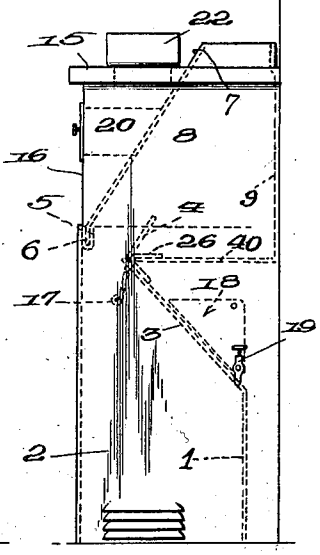



Fig. 6.




Inventor

Harry P. Dowler,

By

Donald L. Maxson.

Attorney

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Fig. 7.

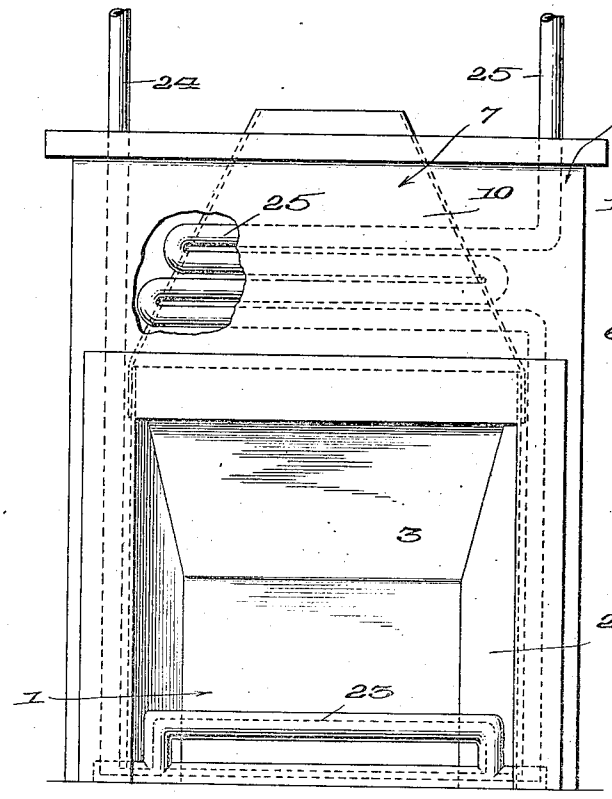
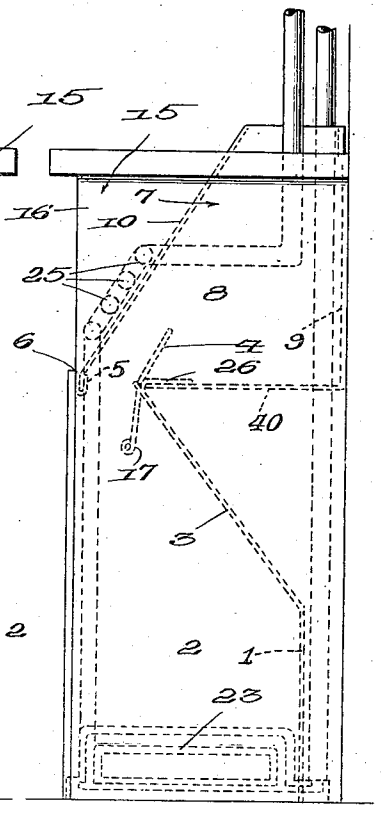



Fig. 8.




Inventor

Harry P. Dowler,

By Donald L. Marson.

Attorney

Patented Apr. 29, 1930 1,756,511

# UNITED STATES PATENT OFFICE

HARRY P. DOWLER, OF CLEARFIELD, PENNSYLVANIA

## FIREPLACE

Application filed October 13, 1928. Serial No. 312,283.

This invention relates to improvements in fireplaces, and more particularly to a sectional fireplace having a fire box section, a casing surrounding the same, a smoke dome section and a smoke pipe section.

An object of the invention is to provide an improved sectional fireplace having a fire box section, a smoke dome section, and a smoke pipe section, said sections being adapted to nest one within the other when it is desired to store or ship the same.

Another object of the invention is to provide an improved sectional fireplace having a smoke dome section adapted to be supported at its front edge upon a casing, and a smoke pipe section adapted to be supported upon the smoke dome section, said sections being readily insertible within an improperly functioning permanent fireplace, to make the same operate efficiently.

A further object of the invention is to provide a sectional fireplace having a fire box section, a smoke dome section and a smoke pipe section, and a casing or mantle adapted to surround said sections in spaced relation thereto, whereby the same may be used to heat air or water for any desired purpose.

Other objects will appear as the description proceeds.

In the accompanying drawings which form a part of my application,

Figure 1 is a front elevation of my improved sectional fireplace;

Figure 2 is a vertical sectional view through the fireplace;

Figure 3 is a side elevation of my improved fireplace, showing a casing or mantle positioned about the same;

Figure 4 is a front elevation of the fireplace with a casing about the same and used as a hot water heater;

Figure 5 is an end view of the fireplace as illustrated in Figure 4;

Figure 6 is an end view of the fireplace with a casing about the same and used as a cooking stove;

Figure 7 is a front view of the fireplace with a casing about the same and used with a water coil and hollow fire basket, and

Figure 8 is an end view of the fireplace illustrated in Figure 7.

Like characters of reference are used throughout the following specification and the accompanying drawings to designate corresponding parts.

My improved sectional fireplace comprises a fire box section 1 preferably made from copper alloyed boiler plate iron, and is provided with side walls 2, and an upwardly and forwardly extending back or deflecting plate 3, which terminates a short distance back of the front edge of the fire box forming a throat. A suitable damper 4 is pivotally supported on the upper front edge of the deflecting plate 3, and is adapted to close the space between the said plate 3 the upper edge of the fire box and the casing to shut off the draft, or to be pushed back when desired to open the passage for the smoke and particles of combustion to pass upwardly through the throat. A U-flange 5 is formed along the upper front edge of the casing, and serves to receive and support the depending flange 6 on the lower front edge of the smoke dome section 7. The smoke dome section 7 is provided with side walls 8, a vertically disposed back plate 9 and a rearwardly and upwardly extending front plate 10. As seen from the drawings, the front plate 10 and side walls 8 taper inwardly from the bottom of the smoke dome section towards the top thereof. The dome section 7 will preferably be made from alloyed iron.

A smoke pipe section 12 is provided with a skirt portion 13, which is adapted to fit over and snugly engage the slightly recessed portion 11 at the upper edge of the smoke dome section 7. The upper end of the smoke pipe

12 is arranged to be received within the usual smoke pipe opening in the chimney 14.

If desired, a suitable casing or mantle 15 may be placed about the fireplace, and is provided with a skirt portion 16 which extends to the floor and is spaced from the several sections forming the fireplace.

An operating handle 17 will be attached to the damper 4, so that the same may be operated from the outside of the firebox, or the operating handle may be placed within the fire box section if desired.

If the fireplace is to be used as a hot water heater, a water tank 18 will be placed in contact with the front plate of the smoke dome 7, and a faucet 19 provided for the tank, whereby water may be drawn from the same when desired.

When the fireplace is to be used as a cooking stove, a sliding drawer or pan 20 may be inserted through the casing 15 to contact with the front plate of the smoke dome section 7, whereby heat will be provided to cook whatever is placed within the said pan 20. If desired, cooking utensils 22 may be inserted through openings formed through the casing 15 to be heated from the adjacent smoke dome section 7.

It is also quite possible and practicable that my fireplace be used as a medium for a hot water heating plant. In this capacity, a hollow fire basket 23 will be placed in the fire box section 1, in order that coal may be burned in the same. A water inlet pipe 24 will lead the water to the hollow basket 23 from radiators (not shown) in the house. The return pipe 25 will connect with the opposite side of the basket 23, and will extend upwardly to the smoke dome section 7, where it will be coiled against the front plate of the same dome section, and from thence back to the radiators.

From the foregoing description, it will be apparent that I have provided an improved sectional fireplace having cooperating sections which will be supported one upon the other when in assembled position, and which may be nested within each other for storing or shipping, and which may be used with a casing and appropriate equipment to heat air or water, or to serve as a cook stove.

Many minor changes in detail of construction may be resorted to without departure from the spirit of the invention.

I claim:

A sectional fireplace comprising a fire box section, a smoke dome section, a smoke pipe section and a casing, a U-flange formed along the upper front edge of said casing a depending lip formed along the lower front edge of said smoke dome section adapted to be received within said U-flange to interlock casing and said smoke dome section in assembled position, a skirt formed on said smoke pipe section adapted to seat over the upper end of said smoke dome section when in assembled position, the front surfaces of said smoke dome section and said smoke pipe section extending in approximately the same plane from the front of said fireplace to the back thereof, a damper in said fire box section, and all of said sections being so formed that they may nest one within the other when dismantled.

In testimony whereof I affix my signature.

HARRY P. DOWLER.