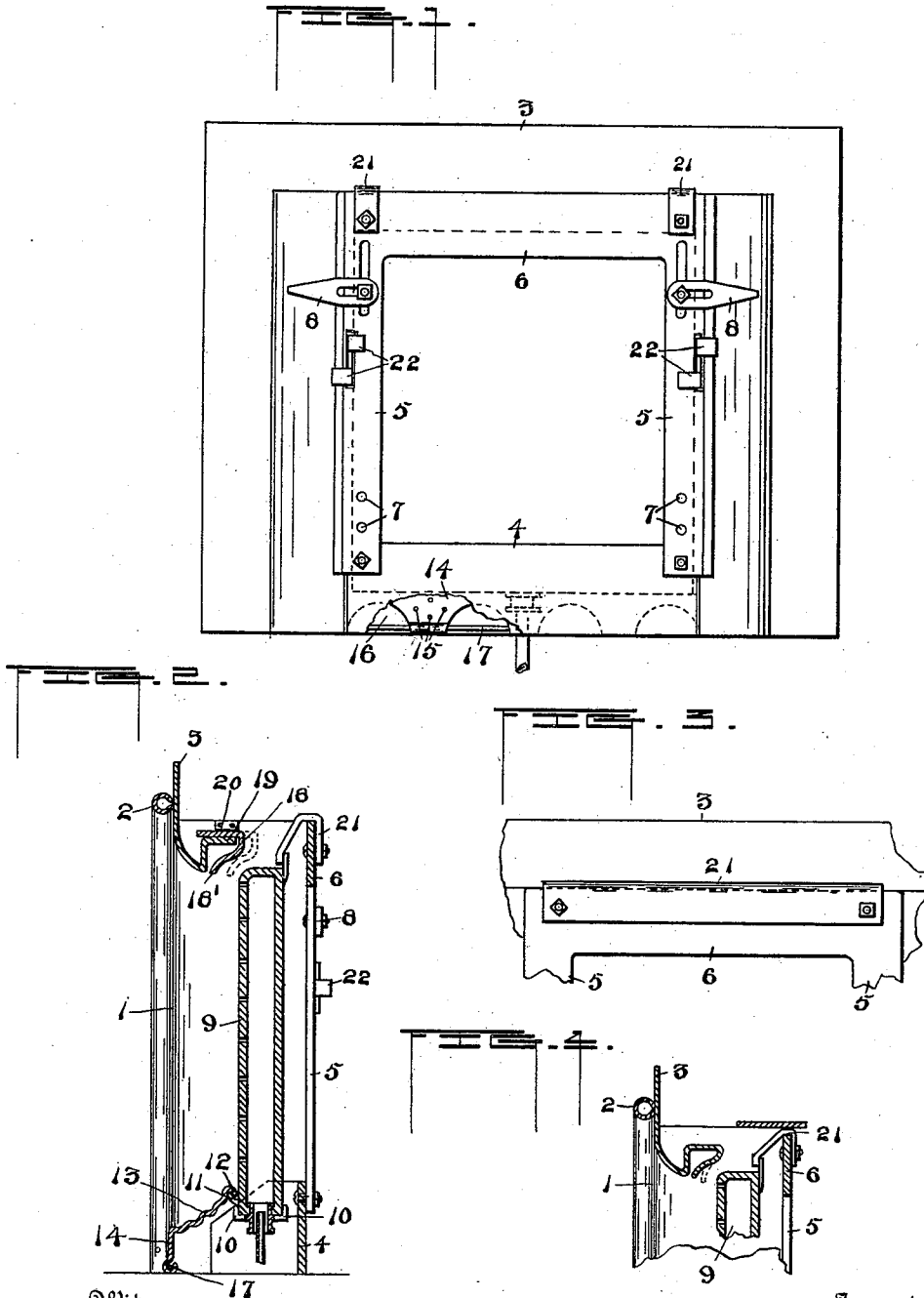


(No Model.)

J. F. HEWITT.
FIREPLACE FRONT.

No. 523,037.

Patented July 17, 1894.



Witnesses
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UNITED STATES PATENT OFFICE.

JOSEPH F. HEWITT, OF ALLEGHENY, PENNSYLVANIA.

FIREPLACE-FRONT.

SPECIFICATION forming part of Letters Patent No. 523,037, dated July 17, 1894.

Application filed June 9, 1893. Serial No. 477,127. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH F. HEWITT, a resident of Allegheny, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Fireplace-Fronts; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

The invention relates to fire places and has for its object to produce an economical front and a frame therefor adapted to be easily and securely applied to fire places of different sizes; and it consists in the construction hereinafter described and particularly pointed out.

In the accompanying drawings Figure 1 is a rear elevation. Fig. 2 is a vertical section; and Figs. 3 and 4 are modified details.

Numeral 1 denotes the front made of any suitable metal such as sheet brass which can be easily cut with shears by hand.

2 denotes an ornamental roll or bead and 3 a flange that can be trimmed when found necessary. This flange may overlap the front face of the fire place wall or connect with it in any suitable manner.

4, 5 and 6 denote respectively bottom, side and top sections of a cast iron frame for the support of the front and burner. These sections are bolted together and are provided with a series of holes 7 to adapt them to be easily fitted to fire places of different heights or for various vertical adjustments in the same fire place.

8 denotes slotted fastenings adapted to be driven into the fire place wall and to be secured to the cast metal frame by bolts or otherwise. Nails and wire may in some cases be used for this purpose.

9 denotes a burner of any suitable form and preferably adapted to practically fill the fire place.

10 are lugs cast on the lower section of the frame to support the burner.

11 is a hook secured to the burner and adapted to engage the flange 12 of the reflector 13. This reflector is shaped substantially as shown to fit the side walls of the front and extends to the vertical support 14

and is preferably integral therewith. 15 and 16 denote air inlets in said support and 17 is a stiffening rod for the bottom of the same.

18 indicates a combined damper and guard or deflector. It consists of a bent plate supported on the cross plate 19 of the front and made movable in ways 20 to open or close the draft opening communicating with the chimney. The lower portion 18' of the damper plate is inclined toward the front and is designed to deflect hot ascending gases toward the exit and prevent their coming in direct contact with the under side of plate 19.

21 denotes holding devices for the top of the burner which may be attached to the frame by the bolts which connect its sections.

22 indicates portions of the side walls of the front which are inserted in suitably shaped slots in the frame and adapted to be secured therein by bending or otherwise. One portion can be utilized for attaching the device to the masonry by use of nails or nails and wire and also for temporarily supporting the fastenings 8.

A frame constructed or described as above set forth can be readily and securely placed within and attached to the walls of any ordinary fire place and a burner then connected with the same by seating it on the lugs 10 and bending over its top the flexible pieces 21. The latter however are not necessarily flexible. After the frame has been secured in place the front can be connected therewith by means of the flexible extensions 22 entered in slots of the frame and bent behind the latter. The front to be thus secured and supported can be made of thin sheet brass or other metal which can be easily trimmed on its exterior edges and fitted by the use of hand shears. The entire front will preferably have a reflecting surface. The reflector 13 can be readily placed in position by engaging the flange 12 with a hook or hooks 11 attached either to the burner or to the frame and in either case is supported practically by the frame.

It is obvious that the several sections 4, 5 and 6 of the frame may be cast in one piece and different sizes supplied for different fire places. The lug 10 may be bolted, cast or otherwise secured on the frame. The inven-

tion is not limited to any particular kind of burner but is used preferably with one that substantially fills the fire place.

Instead of attaching the deflector 18' to damper 18 it may be made a part of the plate 19 and being of thin brass or like metal it can be adjusted by bending as indicated in dotted lines in Fig. 4 to vary the dimensions of the exit for the products of combustion. The plate 19 is not in all cases necessarily fixed to the front, as it would serve a useful purpose if loosely supported. The cross bar of the frame will in some cases be omitted and a loose plate 24 laid upon the top of the side pieces of the frame or upon the holding plate, see Fig. 4.

It is not essential in all cases that the thin metal front be secured to the inner frame by strips 22.

In some cases the holding plate 21 extends entirely across the fire place (see Fig. 3) and in such case it obviously is adapted to serve as a stop to the draft behind the burner in addition to its office as a support or holder for the burner.

I do not broadly claim rearwardly extending reflecting side plates supported by the front nor such construction combined with a gas burner. My improvement is characterized by a separate independently supported frame adapted to fit the rear part of the fire place and hold the said side plates and front in suitable relation to an ordinary brick fire place. The frame also supports the burner and is preferably so combined with the latter as to exclude a current of air behind it.

Having thus fully described my invention, what I claim is—

1. The combination of the fire place front having attached thereto rearwardly extending side plates, the separate frame for the support of said front comprising the sections and independently supported in the fire place, means for connecting the frame sections together and devices for attaching said side plates of the front to the sectional frame all substantially as set forth.

2. The combination of the fire place front having attached thereto rearwardly extending side plates, the frame for the support of said front comprising the sections and independently supported in the fire place, and having lugs 10 fixed thereon to support the burner between the side plates, means for connecting the frame sections together and

devices for attaching the said side plates of the front to the sectional frame all substantially as set forth.

3. The combination of the fire place front having attached thereto rearwardly extending side plates, the frame for the support of said front comprising the sections and independently supported in the fire place, means for connecting the frame sections together and devices for attaching the said side plates of the front to the sectional frame consisting of the extensions 22 and the slots in the frame all substantially as set forth.

4. The combination of the fire place front having attached thereto rearwardly extending side plates, the independently supported frame to support said front comprising the sections and the slotted fastenings 8, securing bolts for said fastenings, means for connecting the sections together and devices for attaching said side plates of the front to the sectional frame all combined substantially as set forth.

5. In combination with a fire place a portable frame fitting the rear part of the fire place and independently supported therein, a fire place front, and reflecting side plates connecting the frame and the front, substantially as set forth.

6. The fire place front having the cross plate closing its top and a damper supported on said plate and provided with an outwardly inclined deflector, substantially as set forth.

7. In combination with a fire place a portable frame fitting the rear part of the fire place and independently supported therein, a fire place front, and reflecting side plates connecting the frame and the front, said frame being provided with means to support the burner, substantially as set forth.

8. In combination with a fire place a portable frame fitting the rear part of the fire place and independently supported therein, a fire place front, and reflecting side plates connecting the frame and the front, said frame being provided with a burner holding plate 21 adapted to exclude air currents behind the burner, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

JOSEPH F. HEWITT.

Witnesses:

W. T. ARMSTRONG,
FLORENCE M. HALL.