

J. W. ELLIOT.
STOVE PLATFORM.

No. 178,917.

Patented June 20, 1876.

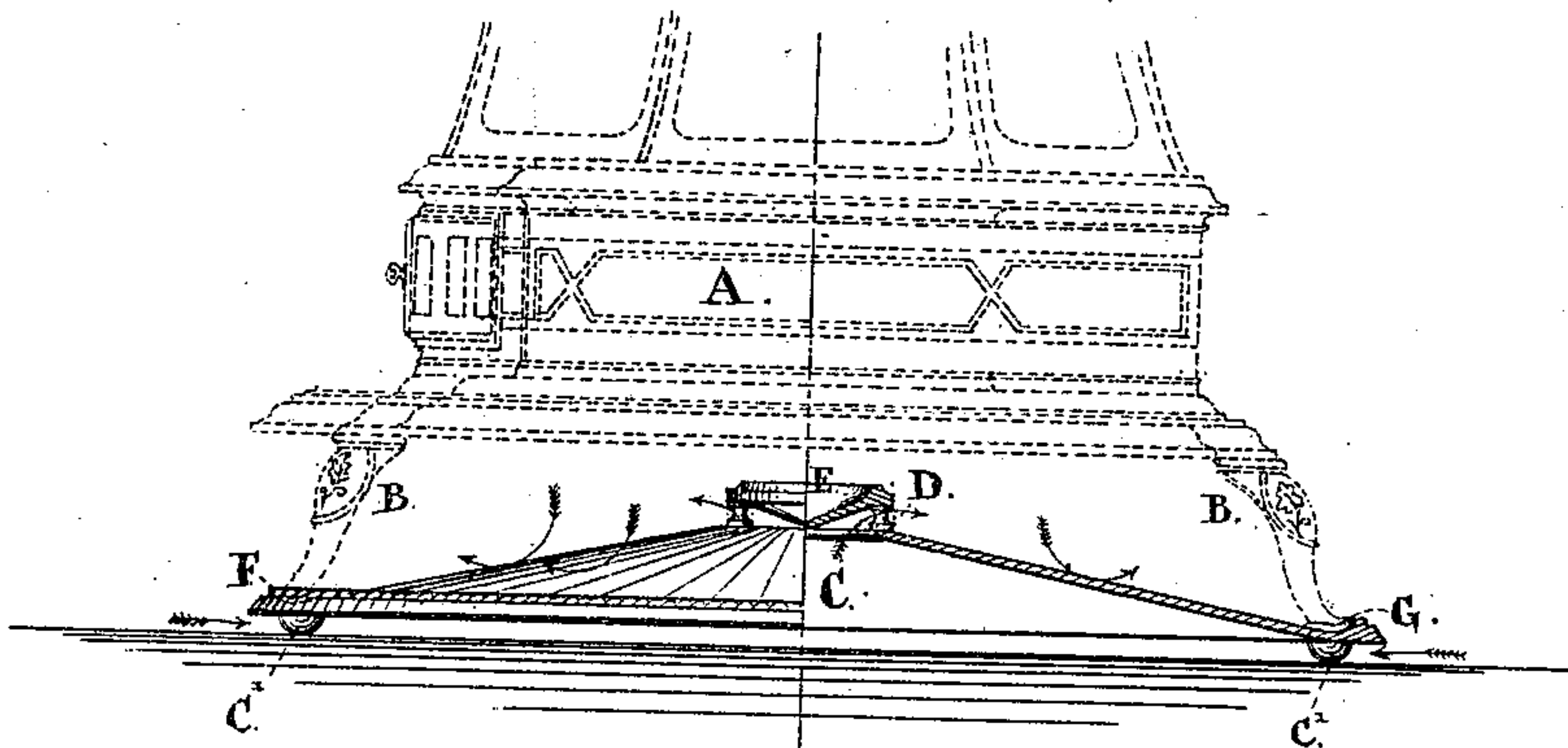


Fig. 1.

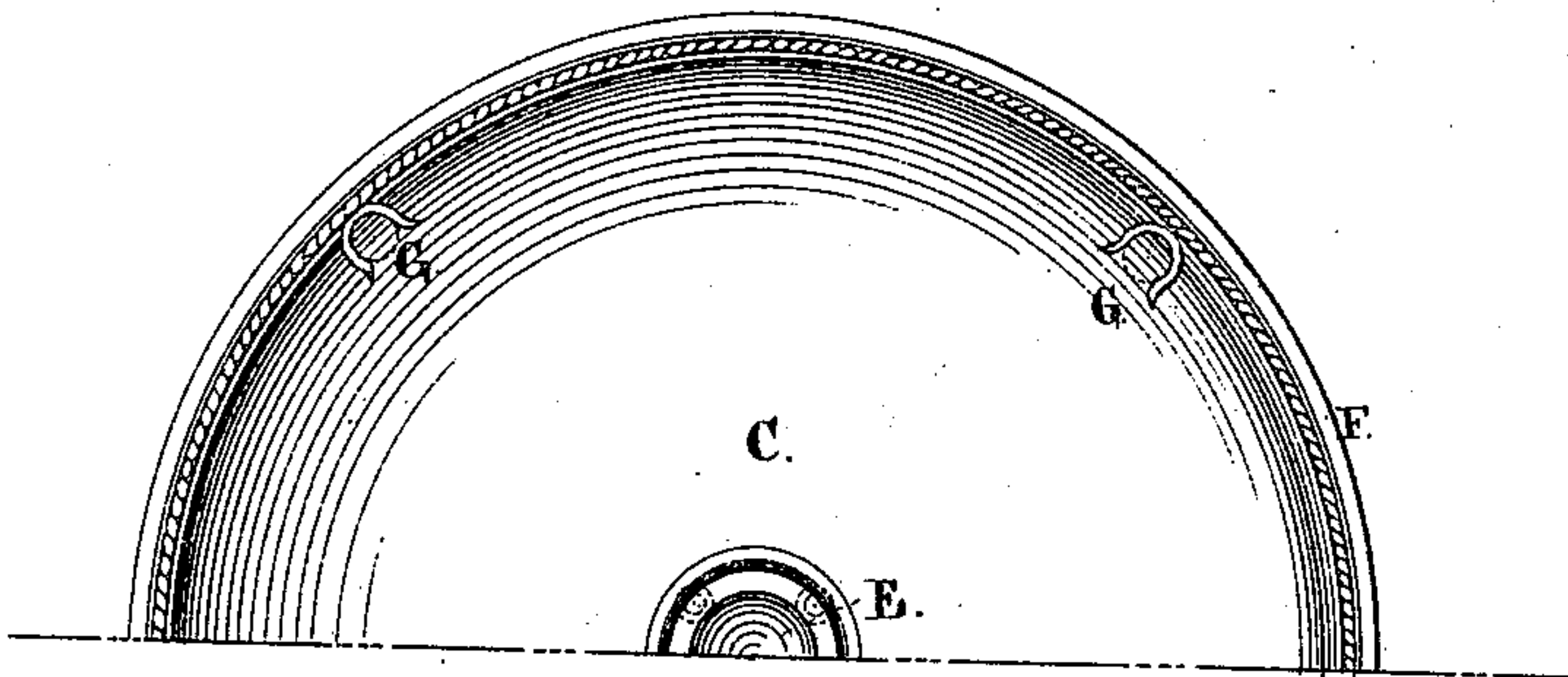


Fig. 2.

WITNESSES.

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UNITED STATES PATENT OFFICE.

JOHN W. ELLIOT, OF TORONTO, CANADA.

IMPROVEMENT IN STOVE-PLATFORMS.

Specification forming part of Letters Patent No. **178,917**, dated June 20, 1876; application filed March 13, 1876.

To all whom it may concern:

Be it known that I, JOHN WHEELER ELLIOT, of the city of Toronto, in the county of York and Province of Ontario, have invented an Improved Base-Plate for Stoves, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings.

My invention consists of a cast or sheet metal plate molded or wrought to a form which may be described the frustum of a shallow cone, surrounded at the base by a raised rim, and provided with suitable pockets for the receipt of the toe of the stove-legs.

The said plate is elevated above the floor a suitable distance by feet cast or attached to the under side, with the object of permitting the passage of a current of air induced by the heat of the stove underneath and out through the crown of the plate. Over the central opening of the plate, elevated and supported at a suitable height therefrom, an inverted conical crowning plate is placed as an ornament, and with the object of directing and assisting the circulation of the air-current.

In the accompanying drawing, Figure 1 is a sectional side elevation, and Fig. 2 a half plan, of a base-plate constructed according to my invention.

A is the lower part of an ordinary heating-stove, supported on the legs B, in the usual way. C is the base-plate, raised above the level of the floor by the feet C', and manufactured from cast or sheet metal, but preferably from the former. The center of the plate is raised above the margin and perforated, the opening D being provided to admit the upward passage and circulation of the air induced by the heat of the stove. This opening is crowned with an inverted conical plate, E, at a suitable height above the top of the plate to admit the free outward

passage of the air. From the interior of the base-plate F is a raised ornamental rim, which may or may not be provided, as desired, but which, when added, greatly improves the finish of the plate. G are pockets designed to receive and firmly secure the feet of the stove.

The object of my invention is to cause an equal distribution of heat in apartments by inducing a circulation under the lower part of the stove. In many descriptions of stoves much of the heat generated is lost from the fact that heated air always ascends, the lower portion of the atmosphere, especially that next the floor in an apartment, remaining cold long after the upper part has been thoroughly warmed. With my base-plate the air within the interior of the plate is rarefied by the heat of the stove, and is forced by lateral pressure of the surrounding cold air out of the opening in the crown of the plate, as shown by arrows. This action being continuous as long as heat remains in the stove, a constant current or circulation of air in the lower part of the room is induced and maintained until the whole atmosphere is of the same degree of heat, and at the same time the floor immediately under the plate is prevented from being heated too much.

I do not claim, broadly, a platform or base-plate of a stove having an air-chamber, as described; but

What I do claim as original, and desire to secure by Letters Patent, is—

The centrally-perforated base-plate C, shaped as described, and provided with an elevated deflector, E, and foot-sockets G, as and for the purpose specified.

J. W. ELLIOT.

Witnesses:

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