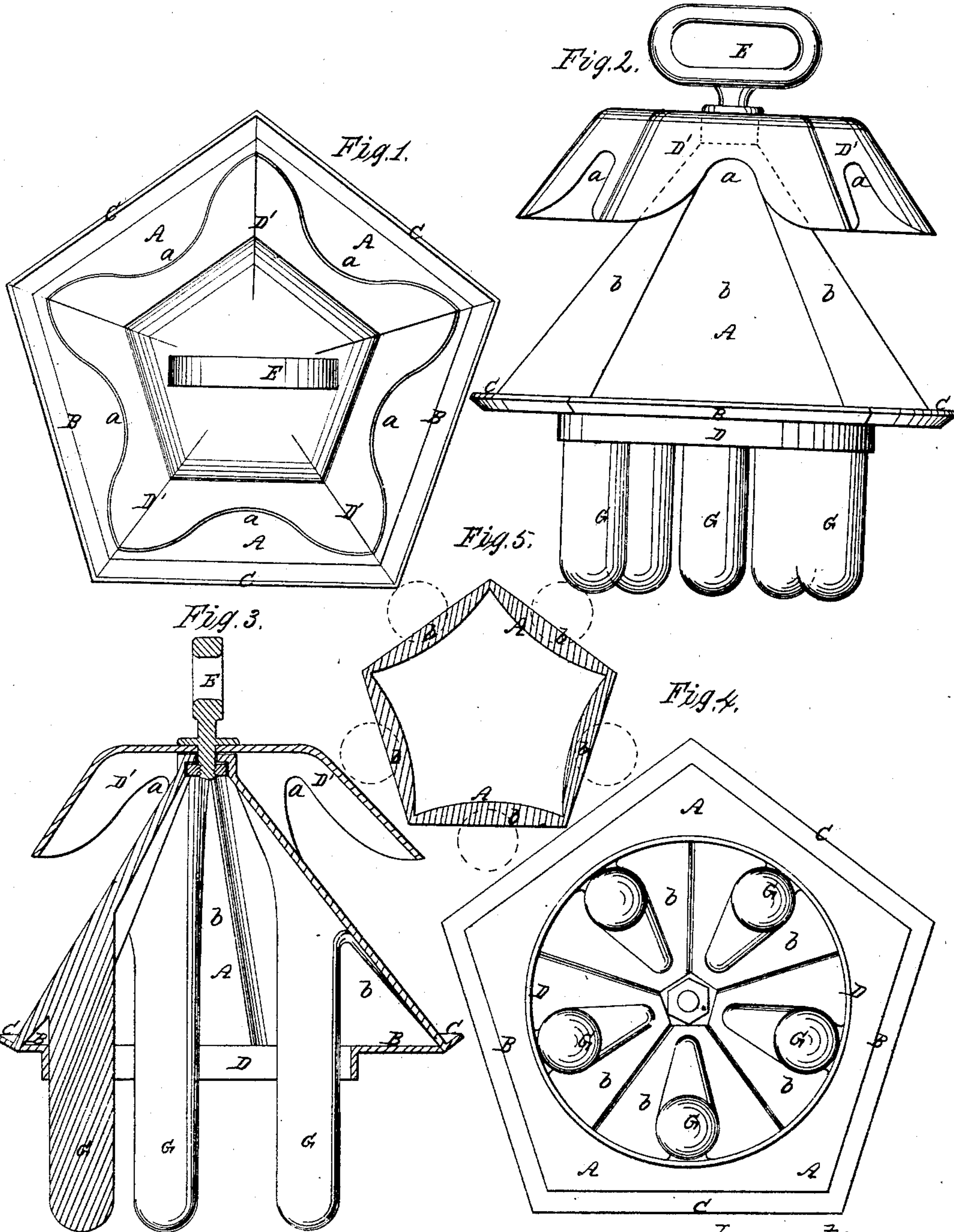


G. CHILSON.
SAD IRON HEATER.

No. 35,139.

Patented May 6, 1862.



Witnesses
R. H. Lee
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UNITED STATES PATENT OFFICE.

GARDNER CHILSON, OF BOSTON, MASSACHUSETTS.

SAD-IRON HEATER.

Specification of Letters Patent No. 35,139, dated May 6, 1862.

To all whom it may concern:

Be it known that I, GARDNER CHILSON, a citizen of the United States of America, and a resident of Boston, in the county of Suffolk and State of Massachusetts, have invented an Improved Sad-Iron Heater, and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1, is a top view; Fig. 2, a side elevation; Fig. 3, a vertical section, and Fig. 4, an underside view of such heater.

It is intended to be used on a stove, and when so employed it is to rest in one of its holes designed for the reception of a boiling vessel.

The stand A, of this heater is a hollow pyramidal frustum, having its base plate B, furnished with a projecting flanch or shelf C, and an annular extension D, the latter being arranged so as to project below such base, as shown in the drawings. The said pyramidal stand is surmounted by a hollow cap guard or heat retainer D', which is also frusto pyramidal in form, except that each side or plate of it is notched or recessed as shown at *a*. Above the guard is a handle E, it being suitably fastened thereto and to the stand A, or either.

From the middle of the inner surface of each of the side plates, *b, b, b*, of the stand A, a projection or heat conductor G, is extended downward and so as to go below the base plate B, and reach into the fuel of the fireplace or the flame thereof when the sad iron heater is inserted in the boiler opening of a stove and in such manner as to be directly over the fireplace thereof, or in such close proximity thereto that the flame or heat from the fuel when in combustion may come in contact with such part G, and impart heat to it. The heat will be conducted into the side or face plate of the stand A, and when sad-irons are placed on the shelf or ledge C, and with their smoothing faces in contact with the outer surfaces of the pyramidal stand A, such irons will be heated.

Each face plate *b*, of the heater is thicker in its middle than it is at its edges or junctures with the two next adjacent plates and gradually decreases in its thickness from

such middle to such edges or junctures, the same being as shown in Fig. 5, which is a horizontal section of the stand. The object of thus making each face plate is to cause the whole smoothing surface of a sad-iron when placed against the outer face of such plate to be uniformly and evenly heated.

The heat conductors may be made tapering in shape, as shown in the drawings, or they may have any other desirable and proper form.

When sad-irons are arranged on the ledge C, their toes or smaller ends will project underneath the cap or guard, which will not only keep the irons from being accidentally thrown off the heater, but will serve to arrest the heat escaping upward from them and the sides of the stand A, and either retain it in contact with the irons, or radiate it more or less upon them.

By means of the heat conductors arranged within the hollow stand A as described, the heating of the stand, when upon a stove will be greatly facilitated.

My invention when made as above described or under a proper change in its form may be used for heating tailors' or other kinds of smoothing irons or various other articles.

I lay no claim to anything described or represented in either of the United States Patents numbered 5971 or 7159, as in neither of them is there found any device which is the same or the equivalent of the guard D, as constructed and arranged with the pyramidal stand A, in the manner I have shown and represented, for my pyramidal guard is so arranged and made that the toe part of each sad iron can be passed upward under the guard and so that the heel may rest on the flanch C. The guard not only serves the purpose of a heat retainer but operates to prevent the sad iron from being accidentally thrown off the flanch C.

Therefore, I claim—

1. The arrangement of the guard or heat retainer D, constructed substantially as described, with the pyramidal stand A, and the shelf or flanch C, thereof.

2. I also claim the hollow pyramidal stand A, with its sides or plates provided with a series of heating conductors G, G,

arranged with respect to them and so as to extend down through the opening D, or base of such stand substantially in the manner and for the purpose as set forth.

- 5 3. I also claim a sad iron heater composed of the hollow pyramidal stand A, (or the same and the guard D,) and the heat

conductors (G) and having the plates of the stand constructed substantially as described and for the purposes as set forth.

GARDNER CHILSON.

Witnesses:

R. H. EDDY,

F. P. HALE, Jr.