(No Model.)

S. RAYMOND.

THERMOMETER ATTACHMENT FOR STOVES.

No. 282,770. Patented Aug. 7, 1883.

FIG. 1.

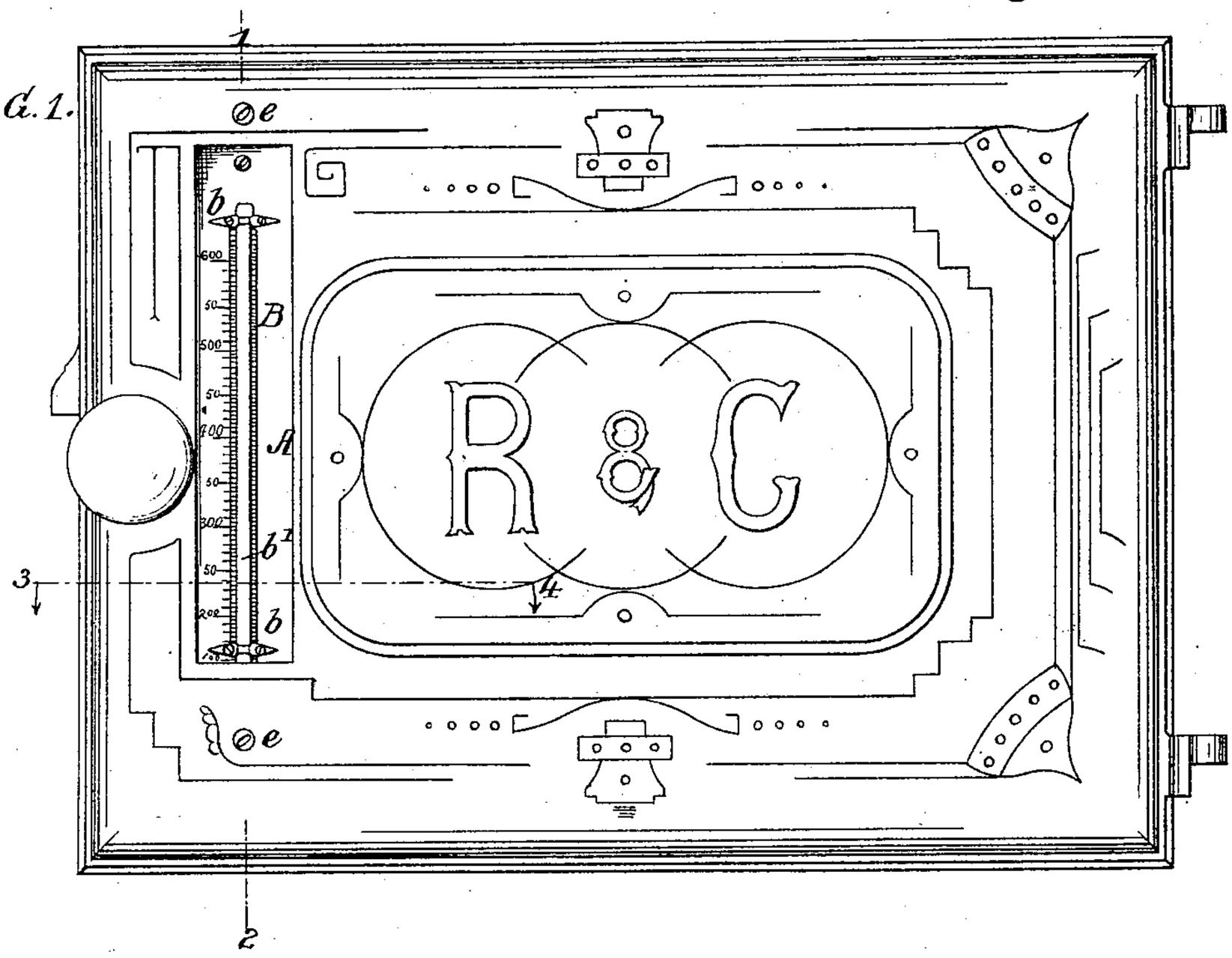


FIG. 2

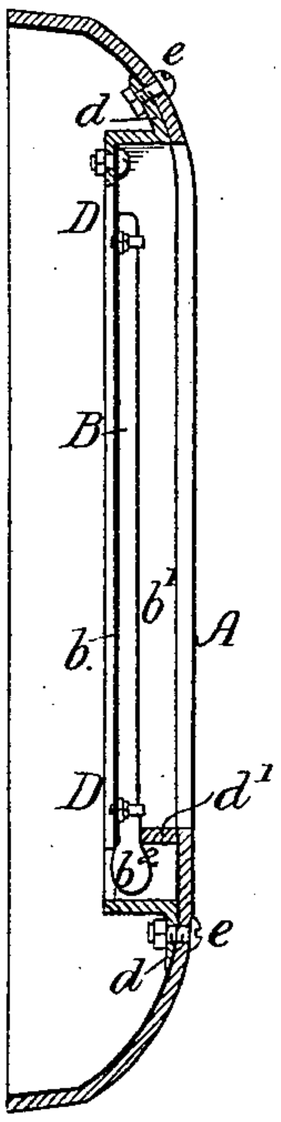
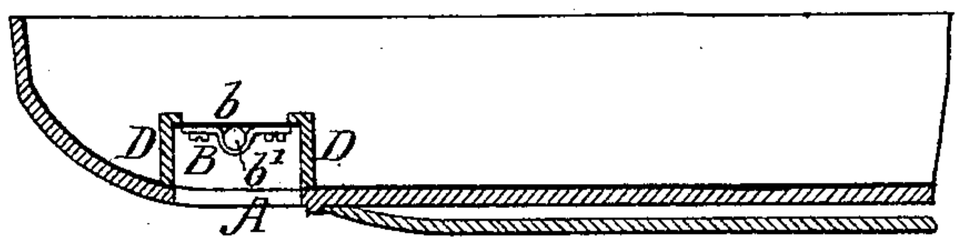


FIG. 3.



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INVENTOR:

Seymour Raymond

by his Attys

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UNITED STATES PATENT OFFICE.

SEYMOUR RAYMOND, OF MIDDLETOWN, PENNSYLVANIA, ASSIGNOR TO HIMSELF AND JOSEPH CAMPBELL, OF SAME PLACE.

THERMOMETER ATTACHMENT FOR STOVES.

SPECIFICATION forming part of Letters Patent No. 282,770, dated August 7, 1883.

Application filed April 7, 1883. (No model.)

To all whom it may concern:

Be it known that I, SEYMOUR RAYMOND, a citizen of the United States, and a resident of Middletown, Dauphin county, Pennsylvania, have invented an Improvement in Thermometer Attachments for Stoves, Ranges, &c., of which the following is a specification.

The object of my invention is to so combine a thermometer with the door or casing of a stove, oven, or range that the thermometer will be below the outer surface of the door or casing and protected from injury, while the mercury-bulb will be exposed to the direct heat within the stove, oven, or range, as more fully described hereinafter.

In the accompanying drawings, Figure 1 is a front view of a cooking stove or range door with my improvement applied thereto; Fig. 2, a vertical section on the line 1 2, Fig. 1; and Fig. 3, a section on the line 3 4.

In the face of the door or casing is formed a slot, A, of about the width of the thermometer B to be applied thereto, but not quite so long. This thermometer is constructed of the usual sheet-metal plate, *b*, to which is secured the mercury-tube *b'* and bulb b^2, the latter projecting below the bottom of the plate *b*, as shown in Fig. 2. The plate *b* is not marked with the usual graduations, but the thermometer is specially prepared for the purpose and graduated to indicate from 150° to over 600° Fahrenheit, as shown in Fig. 1.

The thermometer thus constructed is secured in the bottom of an open-faced box, D, corresponding with the slot A in the door, but somewhat longer, and this box is secured in position on the inner side of the door or casing, with the graduated face of the thermometer opposite the slot. I prefer to secure the box by means of bolts and nuts *e*, passing through flanges *d* on the box.

The bulb of the thermometer is below the bottom of the slot A, Fig. 2, and a cross-piece, *d'*, may be placed across the box on a level with the bottom of the said slot to protect the bulb from the atmospheric air, and at the same time prevent the escape of heat from the oven at that point.

The bottom of the box D is slotted preferably throughout the length of the tube, as well as opposite the bulb, and as the latter projects below the plate *b* it is exposed to the direct action of the heat in the interior of the oven. At the same time, the whole thermometer being secured in the bottom of the box below the face of the door or casing, it is well protected from injury.

Although I have shown the thermometer as applied to the door near the handle, it may be applied to the door or casing at any other convenient point.

I do not desire to claim, broadly, the combination of a thermometer with a stove door or casing; but

I claim as my invention—

The combination of the door or casing of a stove, range, or oven having a slot, A, with a box, D, secured to the inner side of said door or casing in line with said slot, and carrying a thermometer, substantially as described.

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

SEYMOUR RAYMOND.

Witnesses:

H. R. SHULTZ,

HUBERT HOWSON.