(No Model.)

C. FARRELL.

HINGE FOR STOVE DOORS.

No. 301,580. Patented July 8, 1884.

Fig. 1.

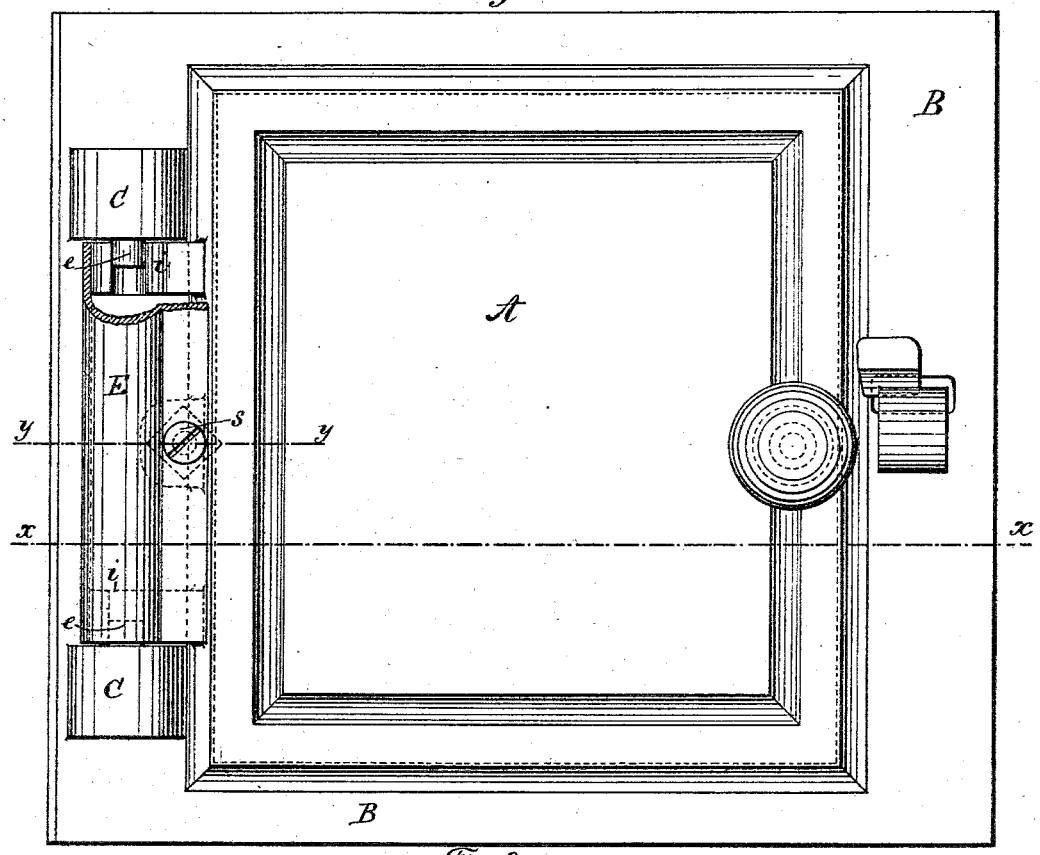


Fig. 2.

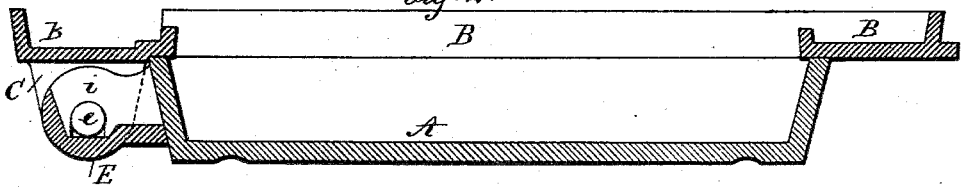
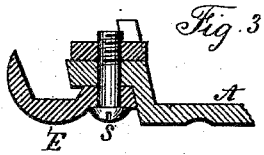


Fig. 3



Witnesses:
J. Stahl
Chas. N. Smith

Inventor
Charles Farrell
per Lemuel W. Serrell
Atty

UNITED STATES PATENT OFFICE.

CHARLES FARRELL, OF PEEKSKILL, ASSIGNOR TO ELY & RAMSAY, OF NEW YORK, N. Y.

HINGE FOR STOVE-DOORS.

SPECIFICATION forming part of Letters Patent No. 301,580, dated July 8, 1884.

Application filed December 13, 1883. (No model.)

To all whom it may concern:

Be it known that I, CHARLES FARRELL, of Peekskill, in the county of Westchester and State of New York, have invented an Improvement in Hinges for Metal Doors for Stoves, &c., of which the following is a specification.

Doors for stoves and ranges have been usually hinged to the plates by lugs and wires or pins. These lugs have to be bored for the reception of the pins, and it is difficult to locate the holes, so that the doors may be changed, if necessary, and the boring is expensive.

My present invention is for facilitating the construction of the hinge, so that the parts of the hinge may be cast, and all the doors and hinges from the same pattern be alike, that they may be introduced into place without boring or fitting.

In the drawings, Figure 1 is an elevation, partially in section, of the stove-door; and Fig. 2 is a sectional plan at the line *x x*. Fig. 3 is a section at the line *y y*.

The metal door A and frame or plate B are of any desired character. Such door may be for an oven, an ash-pit, or for any other place, and the frame or plate B may be part of a stove, a range, or a furnace.

Upon the frame or plate B are the lugs C, of suitable size. The hinge-pins *e* project from the surfaces of the lugs C, and they are in line with each other. These pins are usually of cast-iron. They are conveniently made by providing a hole through each lug on the pattern, into and through which a rod or pin is forced to make a print or recess in the sand at the place required for the pin. This is done before the pattern is removed from the sand, the pin or rod being withdrawn after use. The door A is provided with open hinge stubs or hooks *i*, projecting outwardly and adapted to fit upon the pins *e*. These parts are cast with the door, and in use they are hooked in behind the pins and the parts swing upon each other as the door is opened or closed. To prevent the parts becoming unhooked, I provide a cap-piece, E, the same being adapted to cover or close the hook. When the door is small, one cap-piece is made to close the two hooks *i i*. If the door is large, the cap-piece E is in two parts, one to each hinge. The cap-piece is to be fastened by a screw bolt or rivet, *s*, passing through holes in the respective parts; or any suitable connection may be used for uniting the cap-piece to the door.

I do not claim a hinge made in two parts of iron screwed together, as these have been used.

I claim as my invention—

1. The stove-door having projecting hooks cast with it, in combination with a cap-piece fastened to the door, and the lugs C, having pins *e*, projecting from the same, and forming, with the hooks and cap-pieces, the hinges for the door, substantially as specified.

2. The lugs C, having pins *e e*, projecting from them, in combination with the hooks *i* upon the door, and a cap-piece attached to the door and acting to prevent the parts becoming separated, substantially as set forth.

Signed by me this 4th day of December, A. D. 1883.

CHARLES FARRELL.

Witnesses:
ROBERT MCCORD,
WM. M. BARTON.