(No Model.)

J. VAN.

STOVE DOOR.

No. 251,657. Patented Dec. 27, 1881.

Fig. 1.

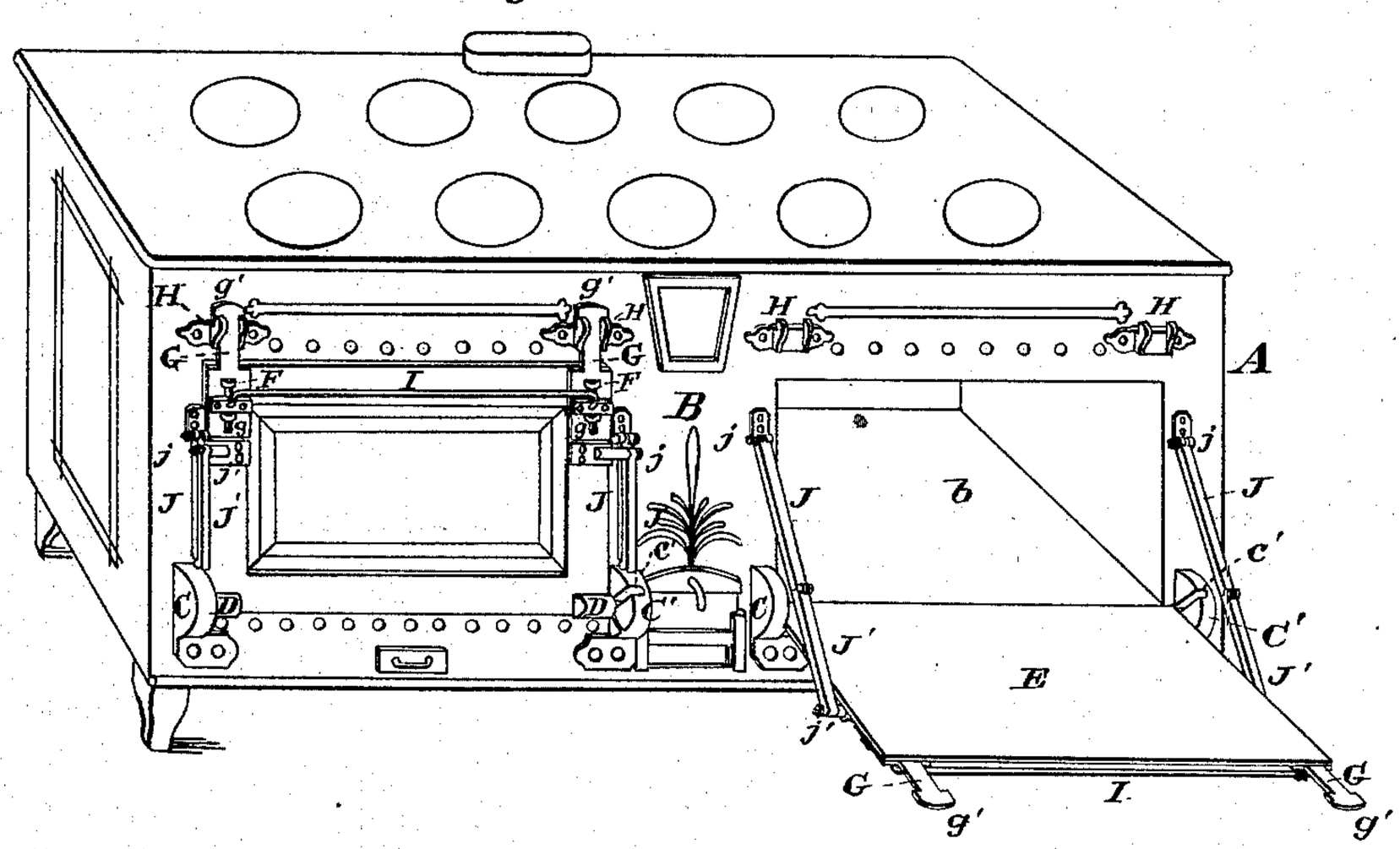


Fig. 2.

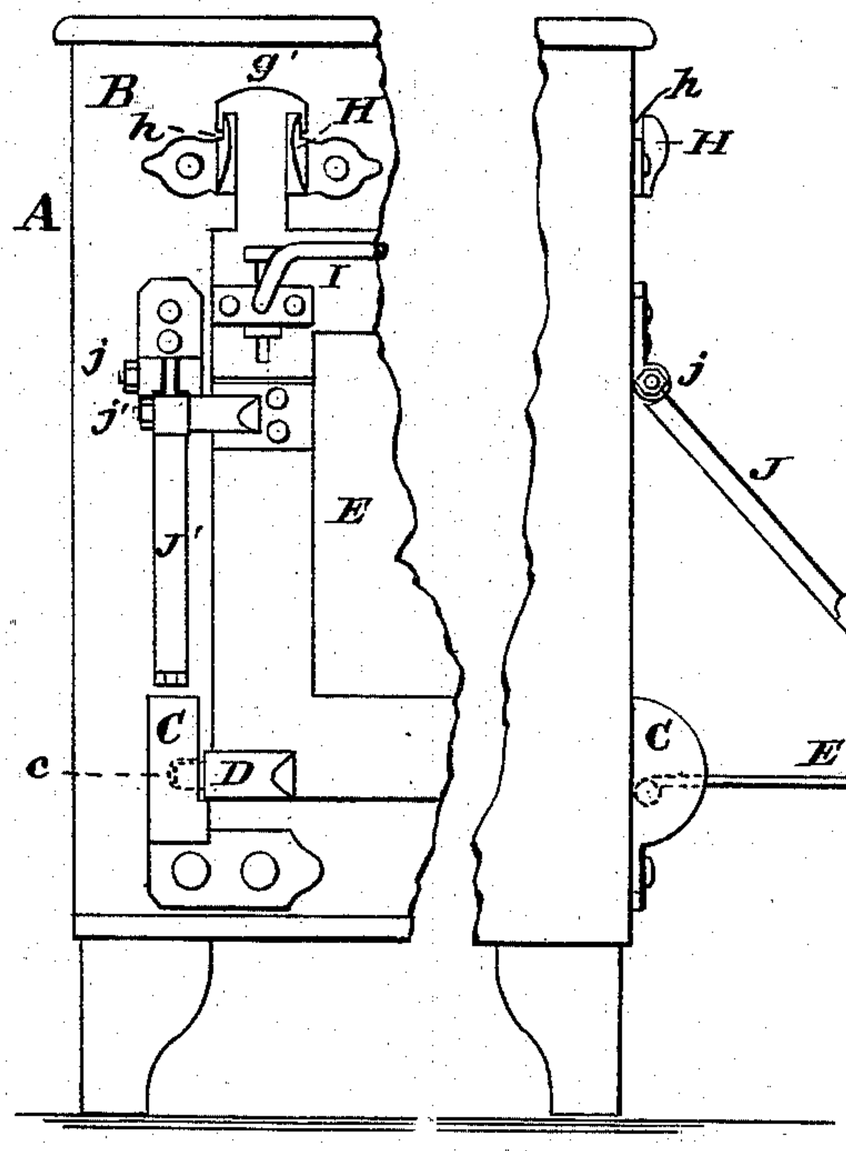
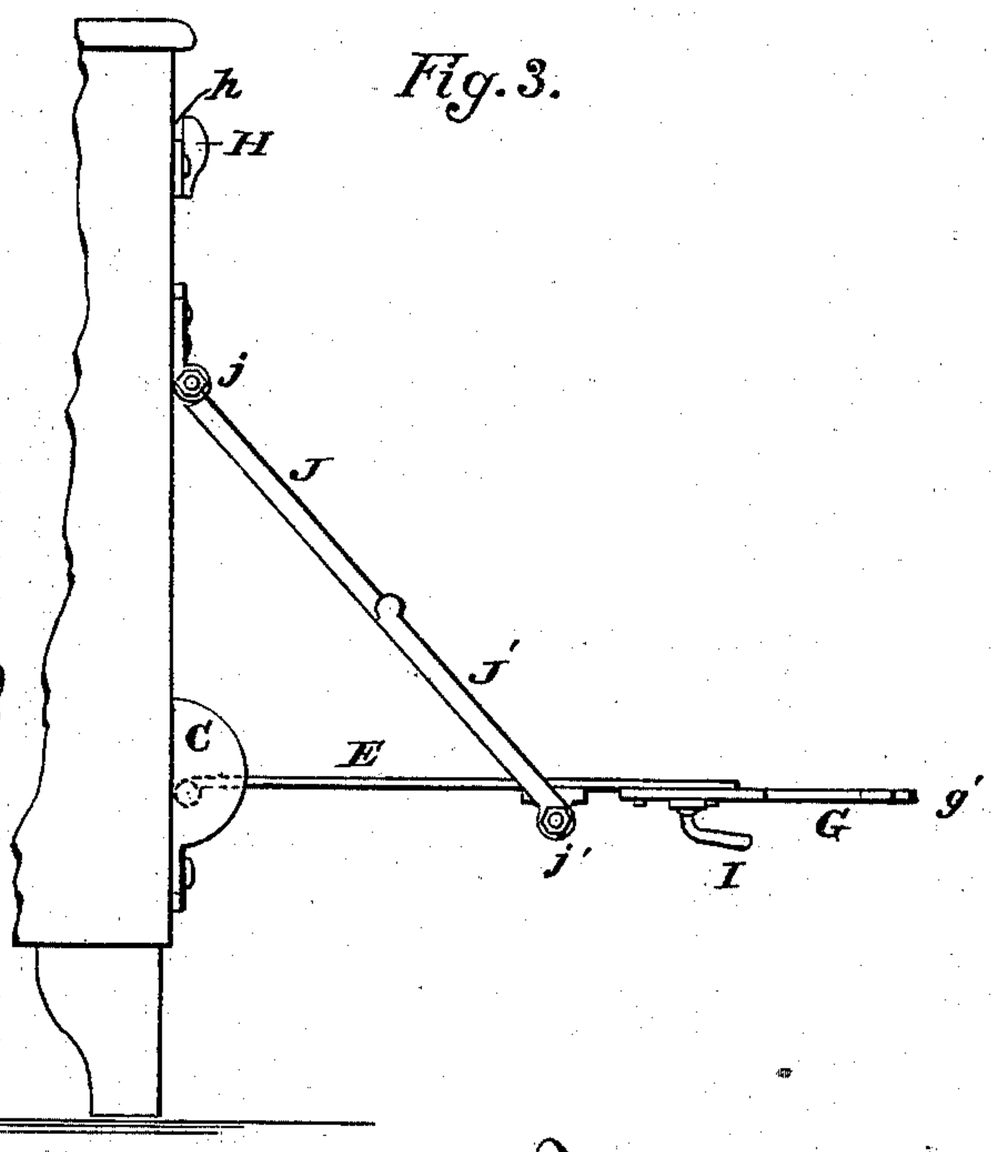


Fig. 3.



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UNITED STATES PATENT OFFICE.

JOHN VAN, OF CINCINNATI, OHIO.

STOVE-DOOR.

SPECIFICATION forming part of Letters Patent No. 251,657, dated December 27, 1881.

Application filed October 14, 1881. (No model.)

To all whom it may concern:

Be it known that I, JOHN VAN, of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and useful Improvement in Stove-Doors, of which the following is a specification.

My invention relates to improvements in the class of stove-doors which, being hinged at their lower edges to the stove-side, are capable of being opened outward and downward to a horizontal position flush with the oven-floor.

My improvements are designed for use more particularly with the oven-doors of the larger class of stoves and ranges, in which considerable weights are often drawn out or deposited upon the oven-door, and in which it is desirable that the doors should be capable of being readily latched and unlatched without scorching the hands of the operator, it being also desirable that the doors should be capable of being expeditiously detached, when desired, for transportation or otherwise.

In the accompanying drawings, Figure 1 is a perspective view of a cooking-range embodying my improvements. Fig. 2 is a fragmentary elevation of the range-front, showing the door closed. Fig. 3 is a fragmentary end elevation of the same with the door in the open condition.

A may represent a two-oven range of any desired style and dimensions.

B may represent the front plate of the same, with the customary entrance-openings *b* to the ovens. This plate is preferably of stout sheet or plate iron, and has riveted to it two sockets, C C′, for gudgeons D, that project from the two lower corners of the corresponding oven-door, E. Of the sesockets one socket, C, has a simple circular orifice, *c*, for the gudgeon on its side, while the other socket, C′, has a slot, *c′*, for the gudgeon on its side of the door. This construction enables the easy application of a door to its proper place upon the stove-side by first inserting the left-hand gudgeon into the circular orifice *c* in socket C, and then slipping the right-hand gudgeon into the slot *c′* of socket C′.

Projecting forward from the oven-door near its upper portion are T-formed lugs F, that occupy slots *g* in a pair of gravitating latches, G, whose T-formed heads *g′* engage over keepers or strikers H, which are notched at *h* for that purpose.

A handle-bar, I, riveted to both latches, enables the latches to be simultaneously lifted for releasing the door and the letting down of the latter to the horizontal position shown in Fig. 3 and on the right-hand side of Fig. 1 without scorching the operator's fingers.

In order to securely hold and retain the oven-door to the said horizontal position, I provide on each vertical edge of the door a jointed brace, J J′, whose respective ends are pivoted to the range-front at *j* and *j′*, as shown. These jointed braces fold and unfold automatically and without any attention from the operator by the mere acts of putting up and letting down the door.

My improvements are applicable to stoves or ranges of one or any number of ovens.

This latch operates by gravitation simply, and requires no springs of any kind, thus avoiding liability to impairment by heat.

I claim as new and of my invention—

1. In a stove or range, the combination of front B, having sockets beneath the oven-openings, door E, having gudgeons D D, and the automatically folding and unfolding jointed outside braces, J J′, on both sides of the door, each brace being pivoted on one side of the oven-opening and hinged to one side of the door, as set forth.

2. The oven-door E, having gudgeons D D and provided at its upper corners with T-lugs F F, and a pair of gravitating latches, G G, connected by handle-bar I, each latch formed with a slot, *g*, and T-head *g′*, in combination with front B, having sockets C C′ and notched strikers H *h* H *h*, as set forth.

3. The automatically folding and unfolding jointed outside braces, J J′, secured on each side of the oven-opening and to each side of the door, respectively, in combination with the front B, having socket C and open socket C′, and the door E, having gudgeons D D, as set forth.

4. The means for securing an oven-door,

consisting of braces J J′, adapted to fold on the outside of the oven, door E, having gudgeons D D and provided at its upper corners with T-lugs F F, and a pair of gravitating latches, G G, connected by handle-bar I, each latch formed with a slot, *g*, and T-head *g′*, and the front B, having sockets C C′ and notched strikers H *h* H *h*, as set forth.

In testimony of which invention I hereunto set my hand.

JOHN VAN.

Attest:
GEO. H. KNIGHT,
PERCY KNIGHT.