

JOHN VAN.

PATENTED JUL 4 1871

116646

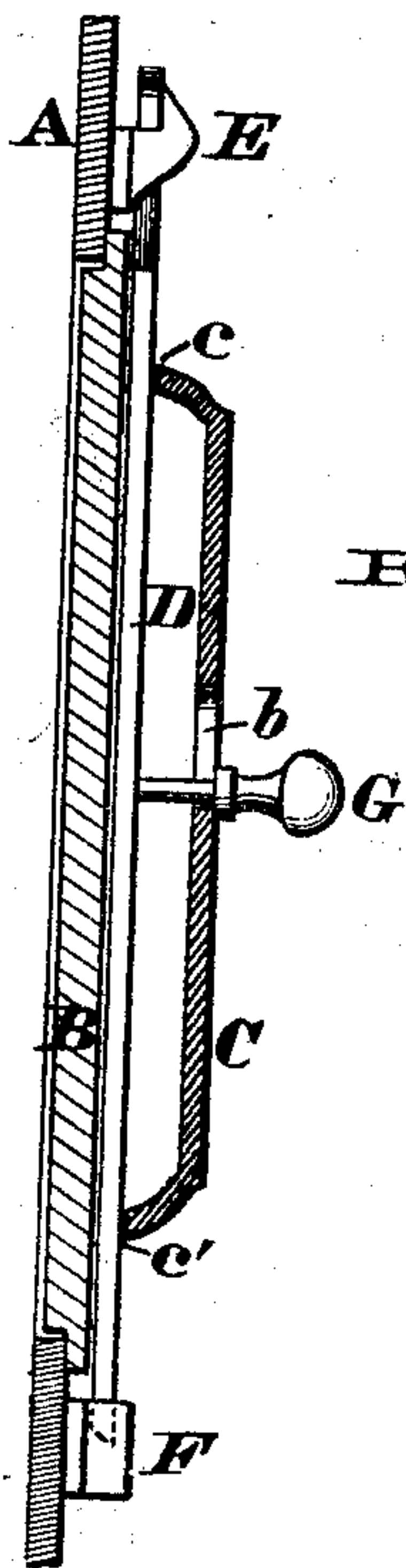
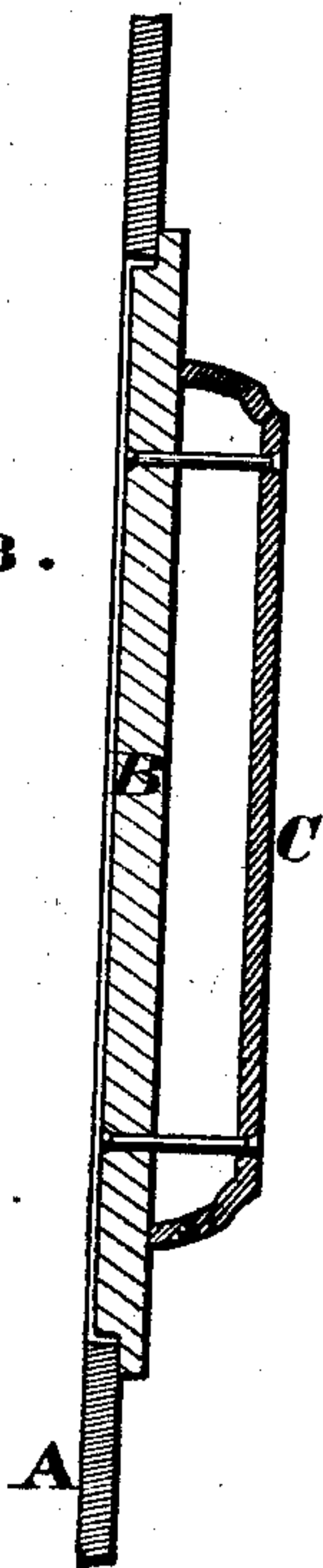


Fig. 3.



John Van  
INVENTOR.  
By Knight Bros.  
Attys.

ATTEST.

Wm. H. Layman.  
John Knight

# UNITED STATES PATENT OFFICE.

JOHN VAN, OF CINCINNATI, OHIO.

## IMPROVEMENT IN STOVE-DOORS.

Specification forming part of Letters Patent No. 116,646, dated July 4, 1871.

*To all whom it may concern:*

Be it known that I, JOHN VAN, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Door for Stoves and Ranges, of which the following is a specification:

My invention consists in providing the fire or oven-door of stoves and ranges with a shield or casing, which serves the several purposes of stiffening the door, of confining the heat within the stove or range, and as a guide or housing for the latch.

Figure 1 is a perspective view of a door embodying my improvement, the door being shown open. Fig. 2 is a vertical transverse section through the closed door and adjacent portion of the frame or shell in the line of the bolt. Fig. 3 is a vertical transverse section in the plane of the rivets which fasten the guard-plate.

A represents a portion of the shell or body of the stove or range. B is the main plate of a door, united by any customary hinges to said body. C is a raised or chambered plate, riveted on the front or outer side or face of the plate B, and having two notches, *c c'*, in its upper and lower edges, respectively, for a vertical bolt, D, having shoulders *d d'* that engage behind a catch, E, that projects from the body, and having a chamfered or beveled lower extremity, *d''*, that rises over and

engages within a staple, F, when the door is closed. Projecting from the front of the latch is a knob or handle, G, whose shank plays in a slot, *b*, in the plate C, which slot limits the ascent and descent of the latch. The latch, as thus constructed, drops to its place by simple gravitation, but may be assisted thereto by a spring, if desired. The notches *c c'*, being distant almost the entire length of the latch, the latter is held firmly, yet with great freedom of motion, and without liability to bind or stick in its bearings.

The shield or guard-plate C serves to stiffen the door and to hold it to its proper shape, and also, by inclosing a non-conducting air-space or jacket, confines the heat within the stove or range, so as to economize the same and render the room more agreeable to the operator.

I claim herein as new and of my invention—

The arrangement of the plates B, notched, raised, and slotted guard-plate C *c c'*, vertical gravitating bolt D *d d' d''* G, and catches E F, substantially as and for the objects designated.

In testimony of which invention I hereunto set my hand.

JOHN VAN.

Witnesses:

GEO. H. KNIGHT,  
JAMES H. LAYMAN.