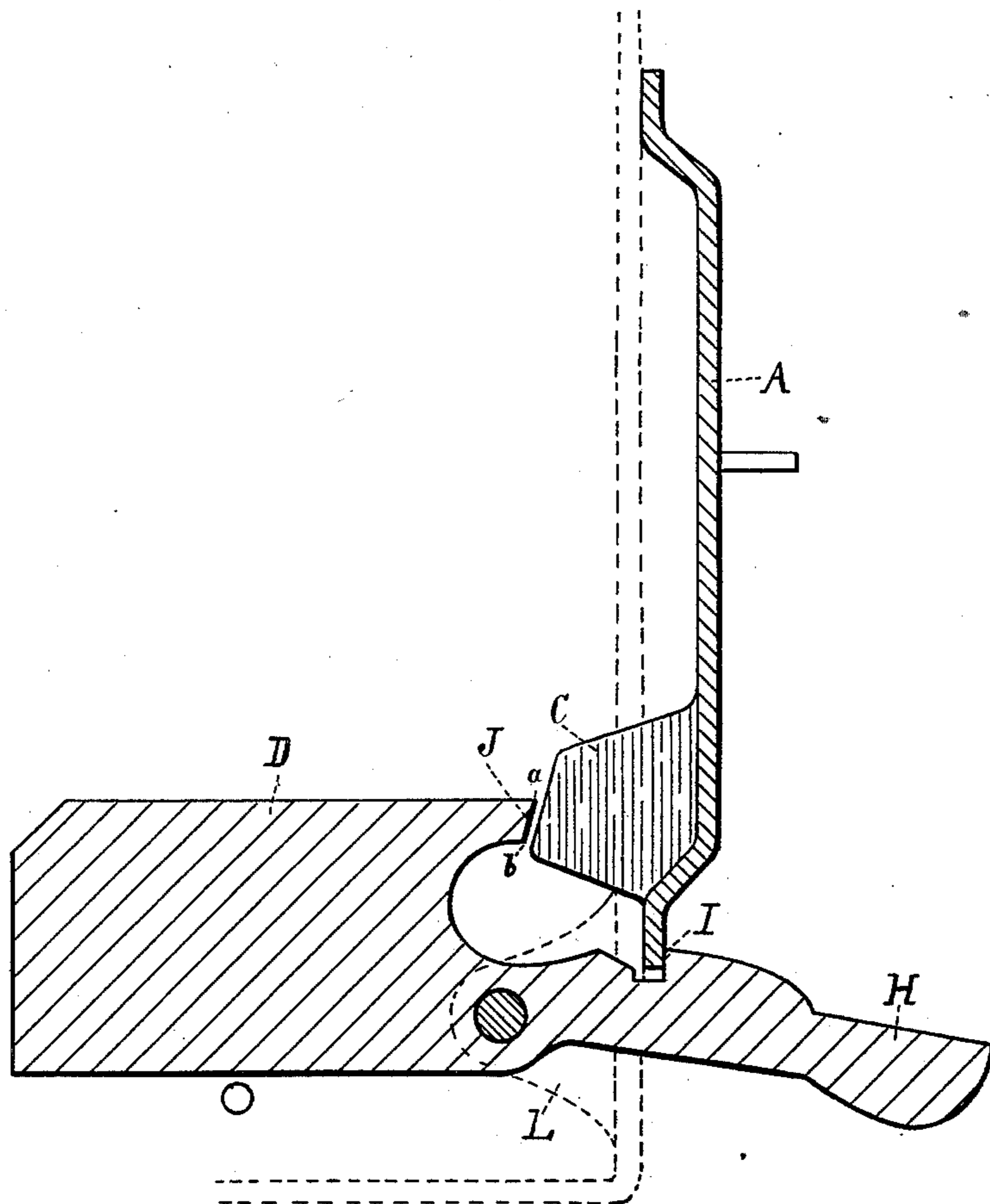


(No Model.)

A. O. BEMENT.  
STOVE DOOR LATCH.

No. 424,594.

Patented Apr. 1, 1890.



Witnesses  
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*Effie J. Croft.*

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# UNITED STATES PATENT OFFICE.

ARTHUR O. BEMENT, OF LANSING, MICHIGAN.

## STOVE-DOOR LATCH.

SPECIFICATION forming part of Letters Patent No. 424,594, dated April 1, 1890.

Application filed April 19, 1889. Serial No. 307,846. (No model.)

*To all whom it may concern:*

Be it known that I, ARTHUR O. BEMENT, a citizen of the United States, residing at Lansing, in the county of Ingham and State of Michigan, have invented a new and useful Improvement in Stove-Door Latches, of which the following is a specification.

My invention relates to latches for stove-doors; and the object of my improvement is to provide a latch which will hold the door securely closed when in a normal position, but which, when moved downward, will permit the door to open and at the same time give a pushing motion to the inside of the door, and thus act to throw it forcibly open.

The figure represents a sectional elevation of a portion of a stove-frame, a stove-door, and my latching device.

A represents a stove-door hung in the ordinary way to a stove. The door has near its lower edge and toward the side farthest from its hinges a projection C, extending inward past the frame on the stove. The inner end of the projection C is cut obliquely, as shown.

A latch D, of the peculiar form shown, is pivoted to the frame of the stove below the bottom of the door A. It lies partly within and partly without the stove, and the preferable method of fastening is by means of lugs L, cast on the inner side of the frame in a position such that the pin-hole through them will be under the oblique portion of the projection C.

The latch D is pivoted to the lugs at about its central part, and has on the outside of the stove a handle H, of which the upper surface slopes obliquely upward from a point below the lowermost course of the door A when the door is swinging and turns down abruptly in the form of a hook at the point I, just outside of the stove-frame. The surface continues back beyond the pivot-hole and curves upward and forward in about a semicircle to a point nearly opposite the lower part of the extension C, from whence the surface is con-

tinued upward parallel with the oblique end surface of the extension C to a point nearly opposite the upper part of that extension, whence it is carried back, down, and forward to complete the periphery of the latch.

The essentials of the form are the hook I and the oblique approach to it, up which the door may slide, and the return portion J, having the surface from *a* to *b* substantially parallel with the oblique end surface of the extension C. The inner end of the latch is made heavy to act as a counter-weight and keep the hook I up in position to hold the door shut.

The movement of the latch D around the pivot is limited by stops or lugs located at any proper place, and the adjustment of the latch is such that when the door is shut behind the hook I the surface *a b* is not in contact with the end surface of the extension C; but these two surfaces come into contact as the surface *a b* is thrown forward coincident with the depression of the hook I below the edge of the door A.

The form and relative position of the extension C and the portion J of the latch produce an accelerating motion of the door as it is thrown open, so long as the pushing contact of the surfaces continues.

Having thus described my invention, what I claim as novel is—

The combination of a stove-door having on the free edge an inward-extending projection, of which the lower and inner surface is oblique, and a lever hung to and extending through the frame-work and formed on its outer portion as a catch with an oblique approach thereto and on its inner portion with an oblique upper surface opposite to the oblique inner edge of the projection on the door, substantially as and for the purpose described.

ARTHUR O. BEMENT.

Witnesses:

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