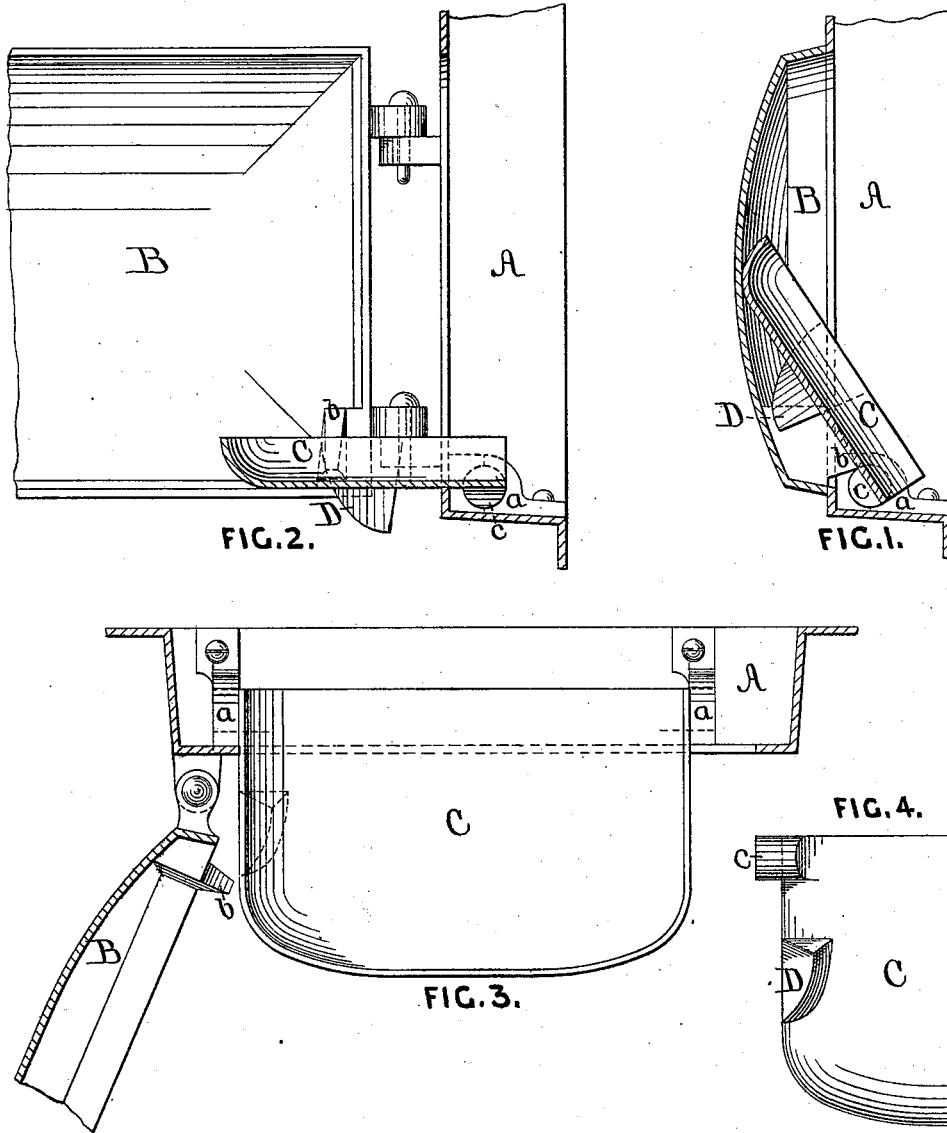


C. A. HAMLIN.  
Automatic Ash-Guard for Stoves.

No. 206,440.

Patented July 30, 1878.



Witnesses:

William H. Low  
S. H. Cox.

Inventor:

Charles A. Hamlin

# UNITED STATES PATENT OFFICE.

CHARLES A. HAMLIN, OF GREENBUSH, ASSIGNOR TO RANSOM STOVE  
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## IMPROVEMENT IN AUTOMATIC ASH-GUARDS FOR STOVES.

Specification forming part of Letters Patent No. **206,440**, dated July 30, 1878; application filed  
July 9, 1878.

*To all whom it may concern:*

Be it known that I, CHARLES A. HAMLIN, of Greenbush, in the county of Rensselaer and State of New York, have invented certain new and useful Improvements in Automatic Ash-Guards for Stoves, of which the following is a full and exact description.

My invention relates to stoves for burning wood; and it consists in combining, with the stove-door, an automatic ash-guard, arranged to receive the ashes and embers falling from the stove when the door is opened, and to discharge the same into the stove in closing the door.

In the accompanying drawing, which forms a part of this specification, Figure 1 is a vertical section through the door-opening, showing the door closed and the ash-guard elevated; Fig. 2, the same with the door opened and the ash-guard extended; Fig. 3, a horizontal section of Fig. 2, and Fig. 4 an inverted plan view of part of the ash-guard.

As shown in the drawing, A represents a portion of the side plate of a stove, containing the feeding-door; B, the door, hinged to the side plate in the usual manner. It is provided on its back, near its lower hinge, with an angular projection, *b*.

C is the automatic ash-guard, having standing flanges on three of its sides, for preventing the ashes from falling therefrom. It is hinged to the side plate by its trunnions *c*, and the brackets *a* within the fire-box and behind the door B. On its under side, and contiguous to the projection *b* on the door, it is provided

with a dependent cam-shaped projection, D, which co-operates with the projection *b* for raising the ash-guard, in the manner herein after described.

While the door B is shut, the ash-guard C rests against the back of it, as shown in Fig. 1. On opening the door, the ash-guard, by its own gravity, will fall outward through the door-opening, and, by extending beyond the side of the stove, will prevent the burning coals and ashes from the fire-box from falling on the floor. In closing the door, the angular projection *b* on its back engages with the cam-shaped projection D on the under side of the ash-guard, and by the coaction of these parts the ash-guard is automatically returned to the position shown in Fig. 1, and by this operation the ashes accumulated thereon are deposited within the fire-box.

It is obvious that this ash-guard, which is herein shown and described as applied to the feeding-door, can be readily applied to any other door of a stove where it may be necessary to guard against the escape of ashes, or to provide for their return within the body of the stove.

I claim as my invention—

The combination of the door B and ash-guard C, arranged to co-operate, as herein described, for automatically discharging the ashes into the stove, as specified.

CHARLES A. HAMLIN.

Witnesses:

WILLIAM H. LOW,  
S. W. Cox.