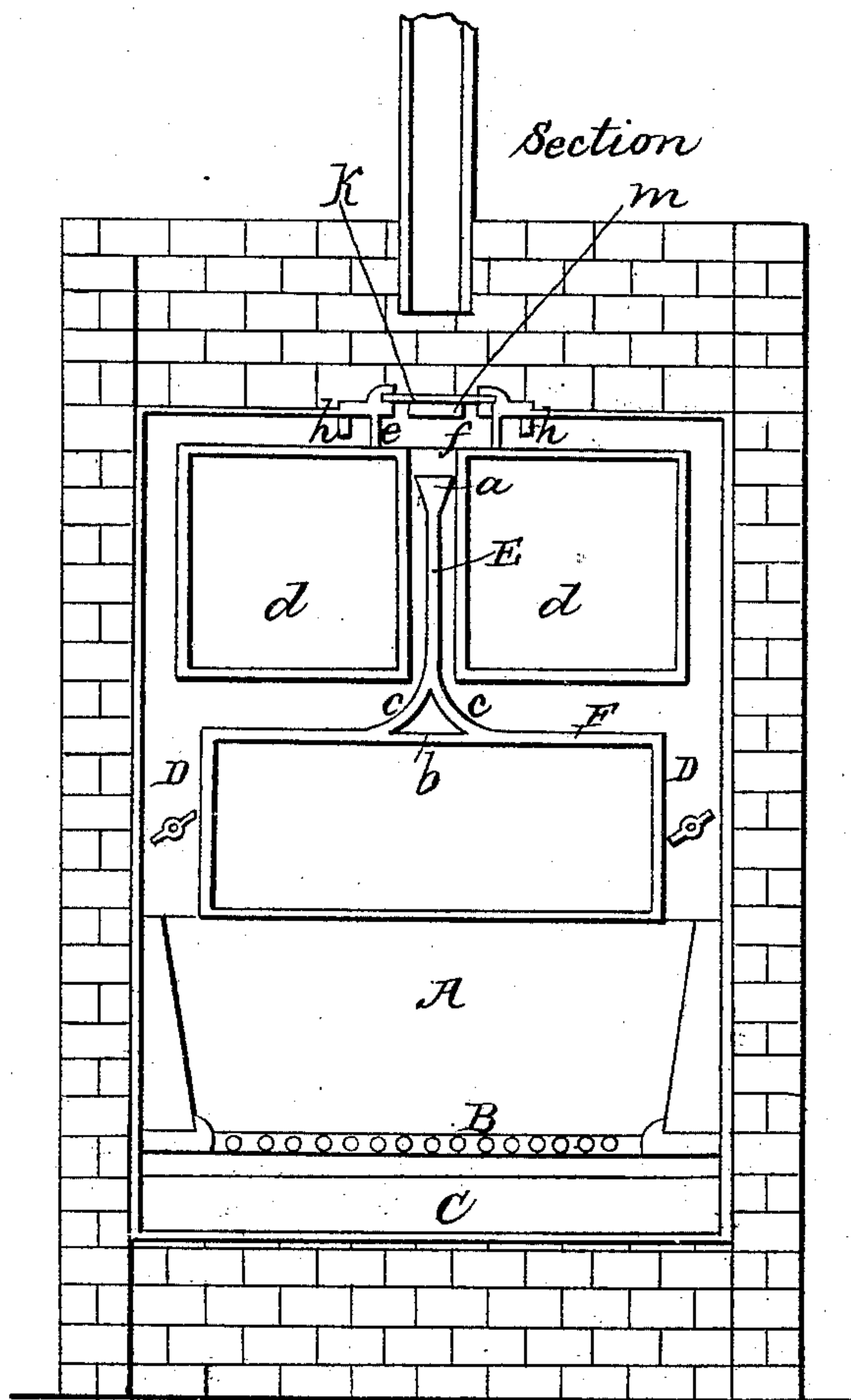


B. W. DUNKLEE.

Range.

No. 27,436.

Patented March 13, 1860.



Witnesses.

Wm C. Smith.  
James F. Wood.

Inventor.

B. Wells Dunklee

# UNITED STATES PATENT OFFICE.

B. WELLS DUNKLEE, OF BOSTON, MASSACHUSETTS.

## RANGE.

Specification of Letters Patent No. 27,436, dated March 13, 1860.

*To all whom it may concern:*

Be it known that I, B. WELLS DUNKLEE, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Ranges, Stoves, &c.; and I do hereby declare that the same is fully described and represented in the following specification and the accompanying drawing, which exhibits a vertical section of a cooking-range with my improvement applied thereto.

In the drawing above referred to and in which the range is shown as properly set in brick-work, with a fire pot A, grate B, ash pit C, D, D, exhibits the side inducting flues for the passage of heat around the ovens, and E, the plate between the ovens connected with the V shaped check plate as shown at *a*.

*h, h*, are check-plates, and *d, d*, the ovens. I have used a plate between the ovens for more than one year and am aware of the relative condition of plates as just issued to Mr. Cooper, No. 26,257; and my improvement consists in constructing the lower part of the said dividing plate E (or where it joins the bed plate F, under the ovens) in the form of an inverted V as seen in the drawing at *c*, the object of which is to conduct the heated volatile products in a close unbroken body upward, and by making it impinge more closely against the bottom portion of the central side of the oven's surface so as to add to the heating qualities thereof (without the use of dampers in this plate) fastened also to the bed plate F, so as to entirely prevent the coming together of said volatile products until after they have arisen above the V check plate at the top of the dividing plate E. By the confined air space *b*, within the inverted V check plate E, the heat is prevented from being radiated off and lost, thereby is concentrated directly to the surface of the ovens thus

equalizing the heat, and economizing in fuel.

K is the damper for closing the circular opening over the ovens for allowing the smoke and gas to escape into the smoke discharge flues, the said circular opening being surrounded with an annulus or ring *e* which extends downward nearly to the top of the ovens as seen in the drawing, and is provided at its front and rear sides with small openings *m f* for allowing the smoke to escape through the ring and consequently through the opening or smoke discharge flue of the range or stove.

The object of the annular check plate *e*, is to still further carry out the system of check-plates (patented by me April 19th, 1859, in connection with the inverted V check and dividing plate E,) so as to more thoroughly diffuse the heat to the ovens to enable us still further to economize in the use of fuel without additional dampers or in case the user should neglect to use those already patented in this range or stove.

I claim—

1. The construction and application of the dividing plate E, in the form as above described, in relation to the inducting flues D, D, the bed plate F the check plates *a*, and with respect to the damper K, top check plates, *h, h*, and ovens, *d, d*, substantially and for the purpose above set forth.

2. I also claim the annulus *e*, with its openings, *m, f*, as constructed and applied with respect to the damper K, top check plates, *h, h*, ovens, *d, d*, and dividing check plates E, and *a*, and in relation to two inducting flues, D, D, substantially and for the purpose above described.

B. WELLS DUNKLEE.

Witnesses:

WILLIAM E. SMITH,  
JAMES F. WOOD.