

G. W. WHITE.

Lime Kiln.

No. 61,495.

Patented Jan. 22, 1867.

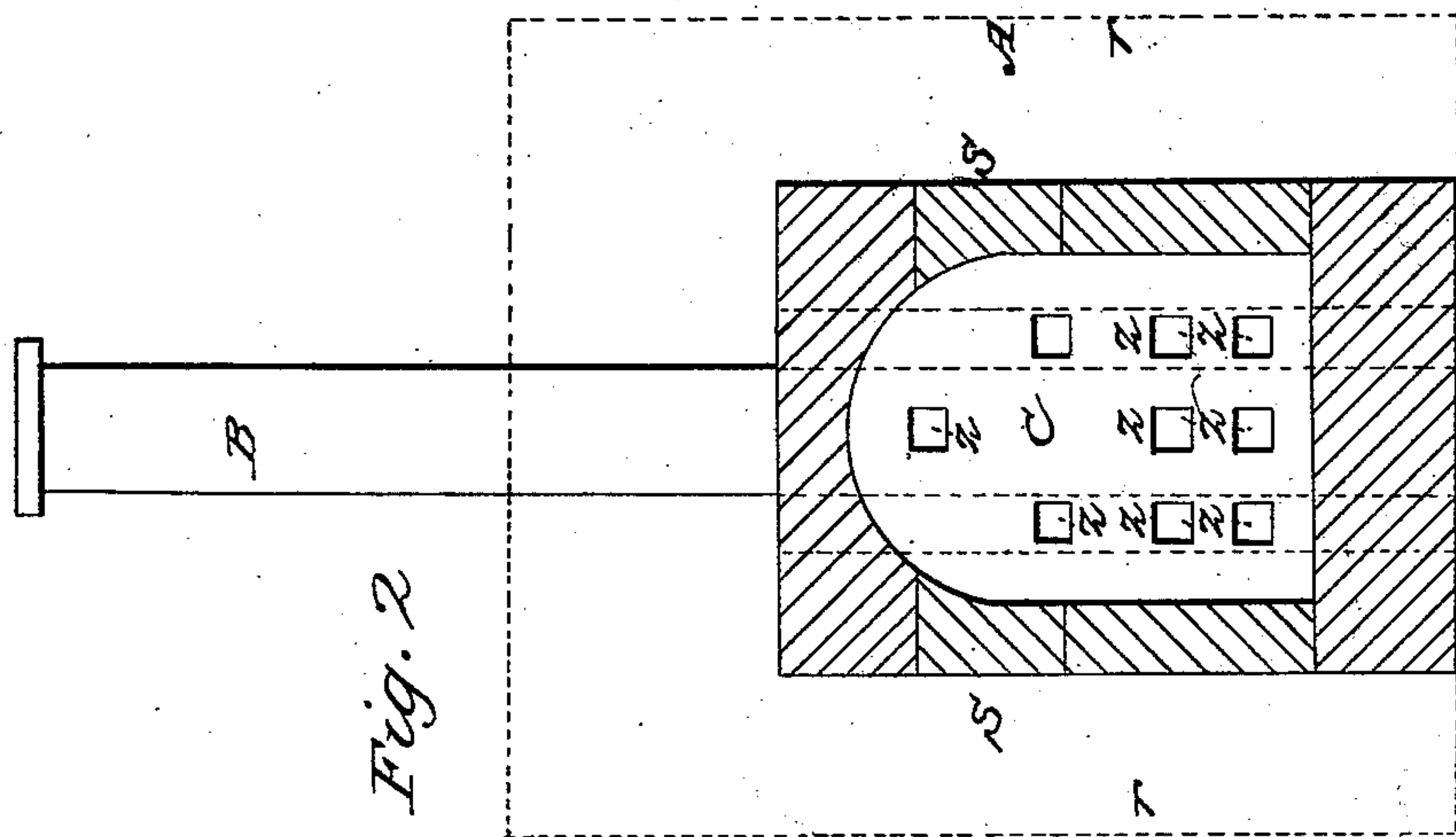


Fig. 2

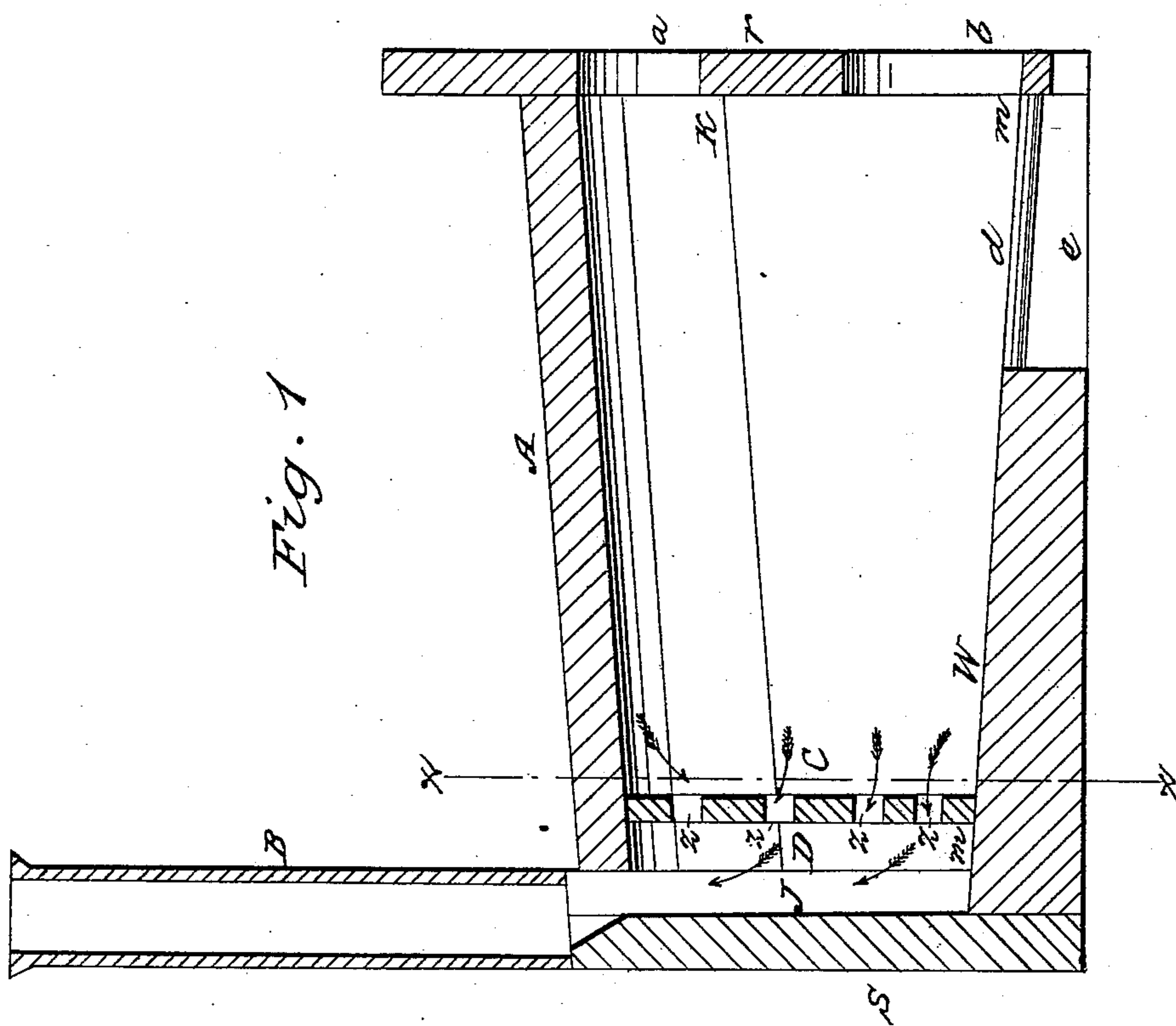


Fig. 1

Witnesses  
A. A. Gertman  
W. Stockbud

Inventor:  
George W. White  
per  
Alexander Mason  
Attorney

# United States Patent Office.

GEORGE WILLIAM WHITE, OF GREENSBURG, INDIANA.

*Letters Patent No. 61,495, dated January 22, 1867.*

## IMPROVED LIME-KILN.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, GEORGE WILLIAM WHITE, of Greensburg, in the county of Decatur, and in the State of Indiana, have invented improvements in "Lime-Kilns;" and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making part of this specification.

In the annexed drawings, A represents a horizontal lime-kiln, which is constructed of any suitable material. At the rear end of said kiln, B represents the chimney for carrying off the products of combustion. This kiln is constructed so that the rear end is just about one-half the size of the front end, (see red lines,) letters *r* and *s*, Figure 2. A section of the kiln is seen in fig. 2, taken through lines *x x*, in Figure 1, while fig. 1 represents a horizontal vertical section. The interior ceiling of this kiln is made in the form of an arch and also tapers from front to rear, (J to K, figure,) while the floor, W, being tapered as above, is also highest at the rear end, *m n*. At the front of the kiln there are three or more fire doors, *b*, under which are placed grates, *d*, to allow the ashes to fall into their respective pits, *e*. *a* represents an opening above the fire doors to place the lime, or for other purposes. At the rear end of the kiln near the chimney there is placed a perforated dividing board, C, and through which perforations, *z*, passes the smoke into the receiving flue, D, and from thence up the chimney, B.

My object is to concentrate the heat within the kiln, and prevent its passage up the flue, and at the same time cause the heat concentrated within the kiln to spread and effectually and more quickly to kiln the lime. The arrangement of the doors, *b*, allows the use of either wood or coal.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The horizontal taper lime-kiln A, when constructed as described, and provided with the doors *b*, and dividing perforated partition C, in the manner and for the purposes set forth.

In testimony that I claim the foregoing horizontal lime-kiln with two, three, or more fires, tapering at rear end to about the same capacity as the fire surface, I have hereunto set my hand and seal this third day of December, 1866.

GEO. WM. WHITE.

Witnesses:

J. C. PECK,  
JACOB C. ROLL.