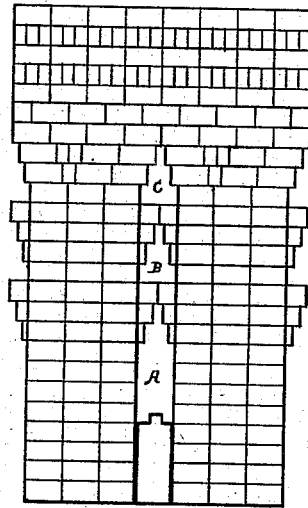
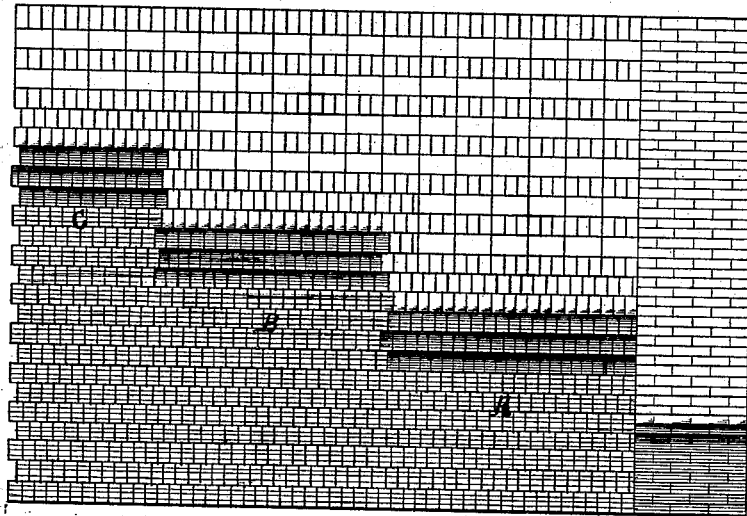


H. DICKSON.  
BRICK-KILN.

No. 190,132.

Patented May 1, 1877.

*fig. 1*



Witnesses  
*Joseph Williams*  
*Wesley Johnston*

Inventor  
*Henry Dickson*  
By *a. Johnston*  
*att'y*

# UNITED STATES PATENT OFFICE.

HENRY DICKSON, OF HOMESTEAD, ASSIGNOR TO HIMSELF AND WILLIAM  
S. COLWELL, OF PITTSBURG, PENNSYLVANIA.

## IMPROVEMENT IN BRICK-KILNS.

Specification forming part of Letters Patent No. **190,132**, dated May 1, 1877; application filed  
October 7, 1876.

*To all whom it may concern :*

Be it known that I, HENRY DICKSON, of Homestead, in the county Allegheny and State of Pennsylvania, have invented a new and useful Improvement in the Construction of Fire-Arches of Brick-Kilns; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention relates to an improvement in the construction of the fire-arches of brick-kilns; and consists in constructing the arch with the crown having increased depth at different points toward the center of the kiln, the depth gradually increasing from the mouth of the fire-arch of the kiln toward the center, as hereinafter described, whereby an increased draft is obtained toward and at the center of the kiln.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

In the accompanying drawings, which form

part of my specification, Figure 1 is a longitudinal section of the fire-arch of the kiln. Fig. 2 is a transverse section at line *y* of Fig. 1.

The fire-arches of the kiln are constructed in the usual manner, excepting that the crown is increased from the mouth toward the center of the kiln, as indicated at A B C, whereby the draft is gradually increased in each of the compartments A B C, which results in an equalization of the heat throughout the kiln, thereby burning the brick in all parts of the kiln with uniformity.

Having thus described my improvement, what I claim is—

In a brick-kiln, a series of arches, A B C, increasing in depth from the outside to the center of the kiln, substantially as herein described, and for the purpose set forth.

H. DICKSON.

Witnesses:

A. C. JOHNSTON,  
WILLIAM JOHNSTON.