T. BILLESBACH.

Methods of Burning Brick.

No. 144,652. Patented Nov. 18, 1873.

Fig: 1.

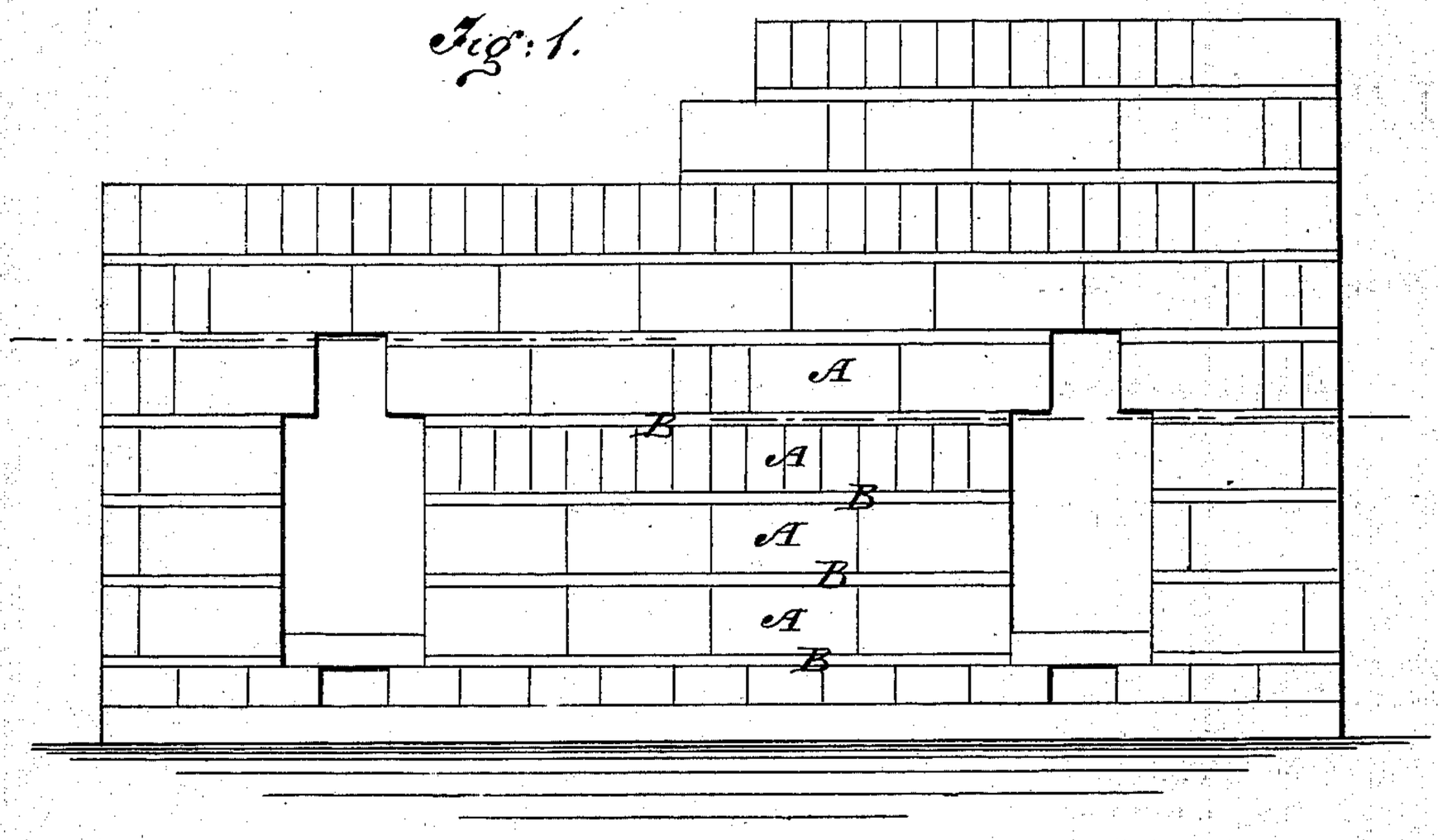
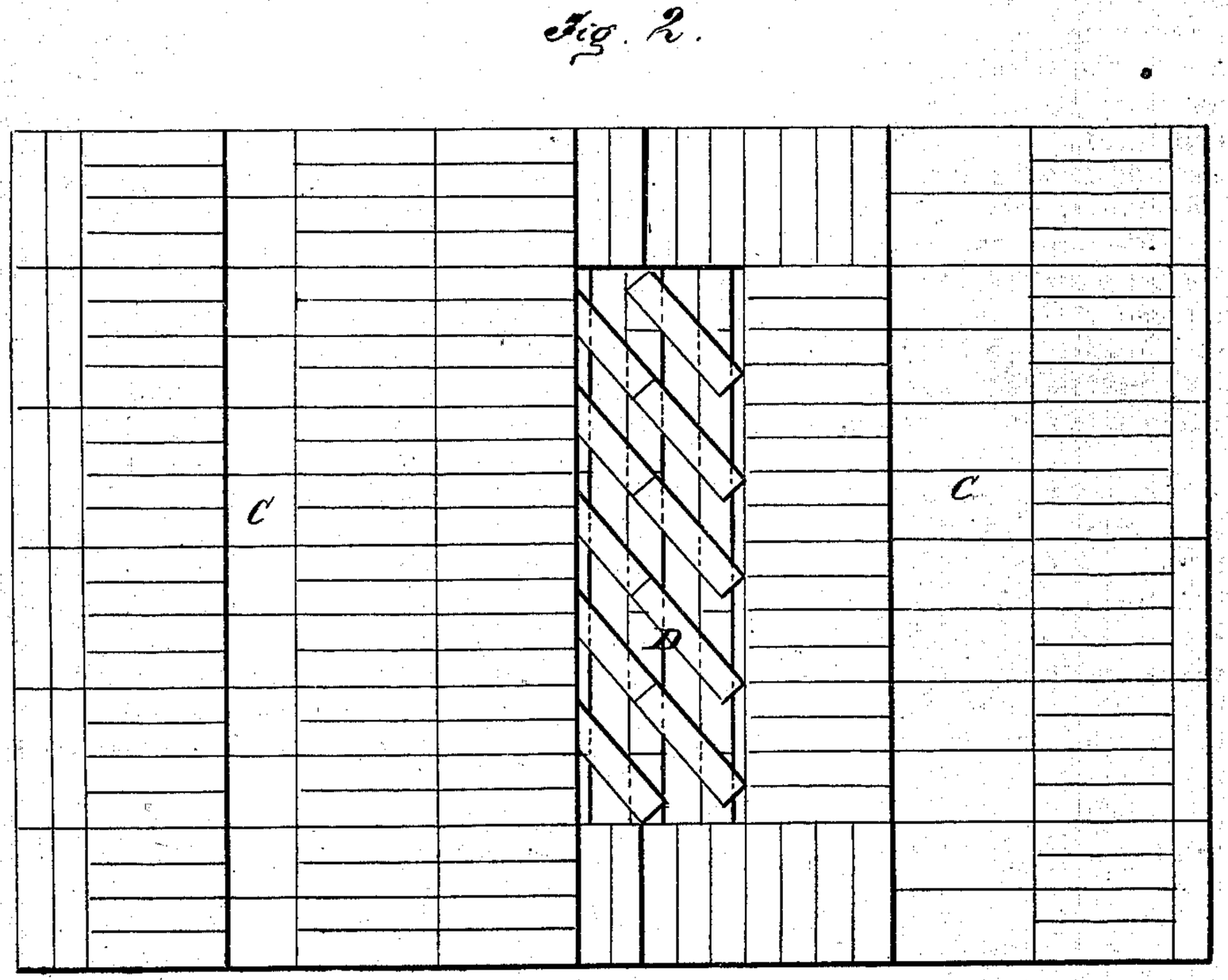


Fig. 2.



Witnesses.

Chas. Nida
Edgunick

Inventor.

T. Billesbach

Per Munn & Co

Attorneys.

UNITED STATES PATENT OFFICE.

TOBIAS BILLESBACH, OF KEARNEY JUNCTION, NEBRASKA.

IMPROVEMENT IN METHODS OF BURNING BRICK.

Specification forming part of Letters Patent No. **144,652**, dated November 18, 1873; application filed August 16, 1873.

To all whom it may concern:

Be it known that I, TOBIAS BILLESBACH, of Kearney Junction, Nebraska, have invented a new and Improved Method of Economizing Fuel in Brick-Kilns, and producing greater uniformity in the "burn;" and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming a part of this specification.

The method will first be described, and then pointed out in the claim.

Figure 1 is a side elevation, and Fig. 2 a horizontal section, of a kiln in which the bricks are laid and charged with coal, to be burned according to my improved process.

A represents the layers of brick; B, layers of coal, and C D arches, which I preferably employ.

I first build my kiln with wood, in the usual or any suitable manner, but, before starting the fire, plaster up the sides of the kiln about two feet. Afterward, as the fire works upward, I plaster successive portions in advance of it, finally covering the top, preferably, with a few inches of clay, in the usual manner. By my method of managing the kilns, the bricks are burned more uniformly throughout the kiln than in the ordinary way, while I save a large percentage of fuel and considerable labor, no fuel requiring to be added after the fire has been started. The draft and heat can be regulated at will while work is going on by means of the ordinary draft-holes, in connection with the plastering up of the sides in advance of the fire. The higher the sides are plastered in advance of the fire the slower the draft will be, and vice versa. The progress of the fire is so slow that when a portion of the kiln is completed it may be fired in two or more arches at one end, and burned thereat, while it is building a little in advance of the fire. If the kiln is continued to a considerable length, the burning of one part will be completed, the bricks removed, and a new kiln commenced while another part is being finished, thus making the operation continuous.

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

The method of burning layers of bricks in a kiln by plastering up successive portions of the sides of the kiln, beginning at the bottom, and continuing it at intervals toward the top as the burning advances, substantially in the manner and for the purpose specified.

TOBIAS BILLESBACH.

Witnesses:

Dr. J. T. BROWN,

JOSEPH R. FELT.