

A. H. THORP.
Chimney-Block.

No. 211,437.

Patented Jan. 14, 1879.

Fig. 1.

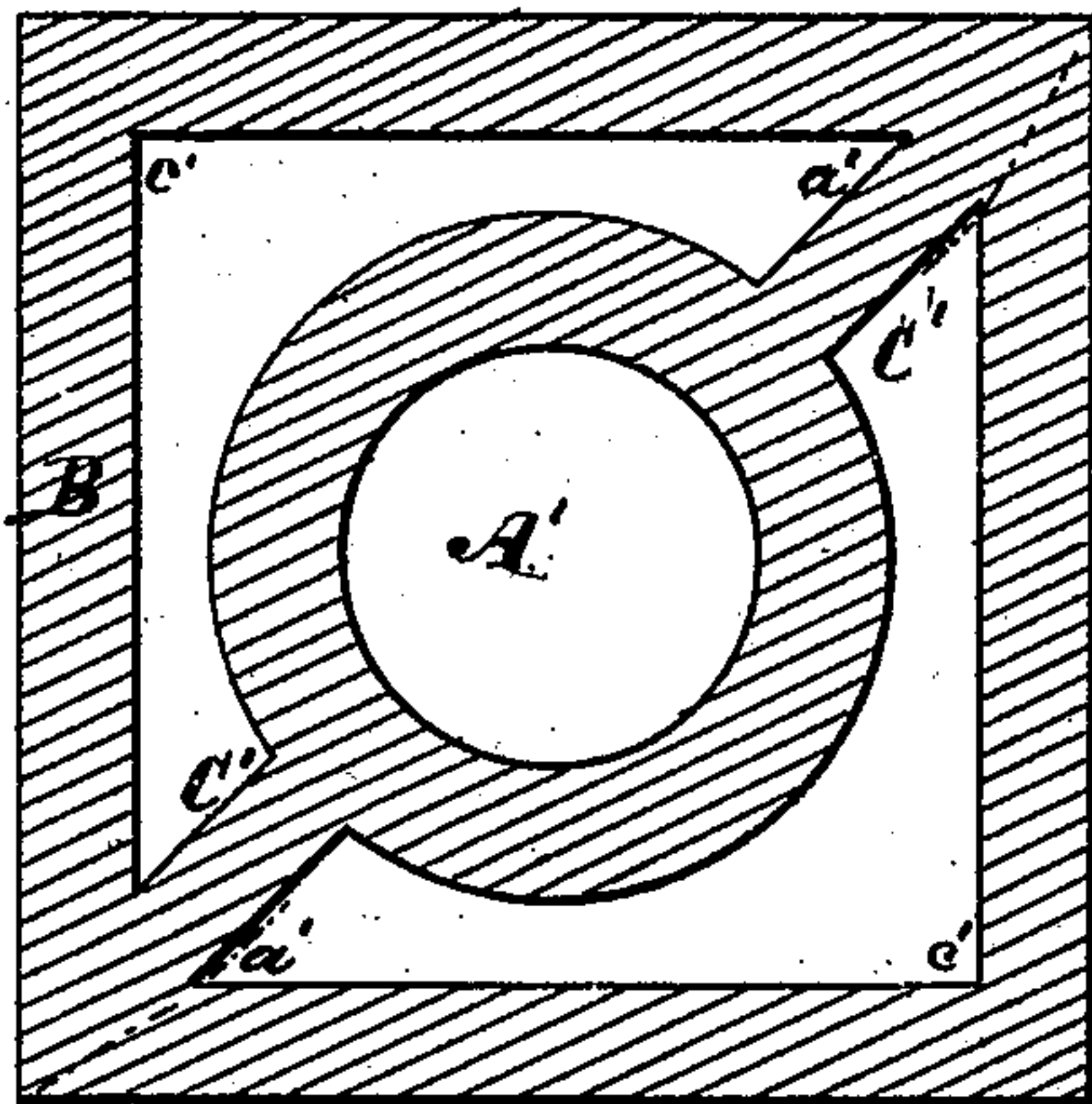
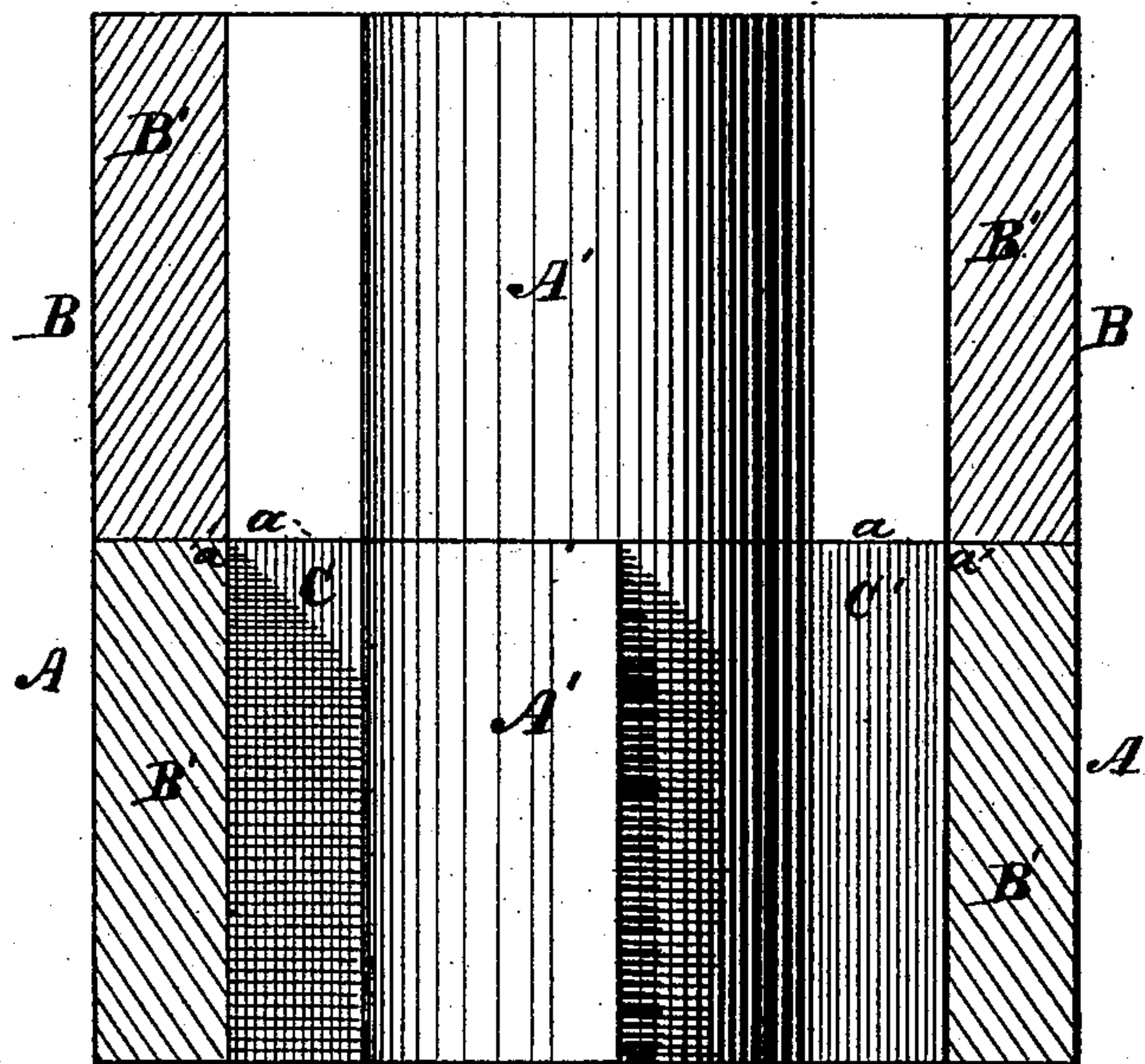


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN CHIMNEY-BLOCKS.

Specification forming part of Letters Patent No. 211,437, dated January 14, 1879; application filed July 3, 1878.

To all whom it may concern:

Be it known that I, ALFRED H. THORP, of the city, county, and State of New York, have invented an Improvement in Chimney-Blocks, of which the following is a specification:

This invention relates to that class of ventilating-chimneys formed of blocks or sections placed one upon another to form the height of the chimney, and each comprising a central pipe portion connected by radial partitions with an external shell, so that when the blocks are laid one upon another the central pipe portions will constitute the smoke-flue of the chimney, while the aggregated spaces between the shell and the pipe portions will constitute a ventilating-passage for the exit of warm or foul air introduced through openings on the shell at various points along the vertical sides of the chimney.

As hitherto constructed, these blocks have had their aforesaid spaces subdivided by four radial partitions, extended one to each side or corner of the block, so that when the blocks were laid one upon another the partitions came one above another and divided the aggregate space into four distinct and separate air-passages, so that when the chimney is at one side of an apartment it is impossible to utilize the entire cross-section of the chimney, for the reason that no openings made from one side only of the chimney will afford access to all portions of the spaces or of the passages constituted thereby.

The object of my invention is to obviate this drawback; and my said invention consists in certain novel means whereby this is accomplished.

Figure 1 is a plan view, representing one feature of my said invention; and Fig. 2, a vertical sectional view thereof, taken in the line *x x* of Fig. 1.

A and B represent two chimney-blocks made according to my invention, the two blocks, apart from their arrangement in relation to each other, being identical in form and con-

struction. A' is the central pipe portion, made preferably of cylindrical form, and B' is the external shell, made preferably of rectangular shape. The portion A' is connected to the shell B', not by four radial partitions in the usual manner, but by two only, as shown at C', which extend diagonally to corners or near the corners *a'* of the shell A at opposite sides of the portion B', leaving the other corners, *c'*, clear or devoid of partitions.

In constructing the chimney by placing a number of the blocks one upon another, care is taken to place the partitions C' of one section in a plane at right angles to the partitions C' of the blocks immediately above and below, so that by this means the partitions do not form continuous walls, dividing the space between the portions A' and the shell B' into totally distinct passages, but afford openings at *a* coincident with the junctions of the blocks, so that the entire space between the smoke-flue and the shell or outer walls of the completed chimney forms substantially a single passage, which may be tapped by one or more openings formed in one side only of the shell or outer wall of the chimney.

What I claim as my invention is—

1. As an improvement in the herein-described class of chimney-blocks, a block having the clear corners *c'* and the two diagonal partitions C', connecting the central portion, A', with the shell B', whereby the blocks may be laid in such manner as to afford substantially a single ventilating-passage embracing all the space between the portions A' and shells B', substantially as herein set forth.

2. A chimney composed of the improved blocks A B, laid with their partitions C' in planes at an angle with each other, substantially as and for the purpose herein set forth.

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Witnesses:

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