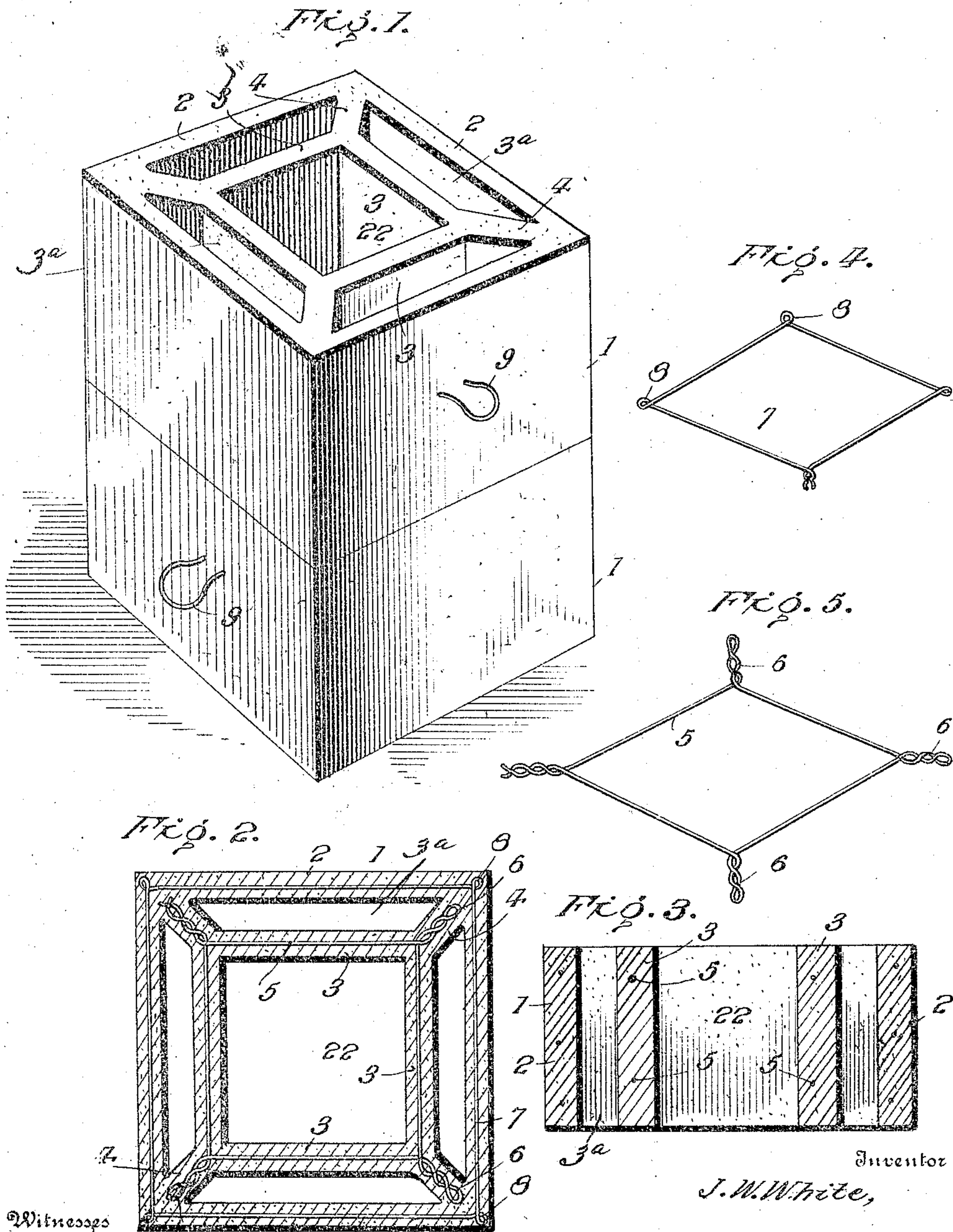


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No. 891,312.

PATENTED JUNE 23, 1908.

J. W. WHITE.
CONCRETE CHIMNEY BLOCK.
APPLICATION FILED AUG. 5, 1907.



Witnesses

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CONCRETE CHIMNEY-BLOCK.

No. 891,312.

Specification of Letters Patent.

Patented June 23, 1908.

Application filed August 5, 1907. Serial No. 387,108.

To all whom it may concern:

Be it known that I, JOHN W. WHITE, a citizen of the United States, residing at Spokane, in the county of Spokane and State of Washington, have invented certain new and useful Improvements in Concrete Chimney-Blocks, of which the following is a specification.

This invention relates to improved concrete blocks, designed primarily for chimney purposes.

The primary object of the invention is to provide a chimney block with a flue and ventilating spaces, and specific means in the webs or body portion of the structure to strengthen the block, that a light and durable construction will be formed.

Other objects and advantages will be hereinafter referred to and particularly pointed out in the claims.

In the drawings—Figure 1 is a perspective view showing the arrangement of the preferred form of block, in the formation of a chimney. Fig. 2 is a horizontal section taken through one of the blocks. Fig. 3 is a transverse section taken through one of the blocks. Fig. 4 is a detail perspective view of one of the strengthening elements. Fig. 5 is a similar view of one of the reinforcing elements.

The numeral 1, indicates a chimney block of square formation, and comprising inner walls 3, forming a flue, and outer walls 2, spaced from the inner walls, and entirely surrounding the same, and diagonal webs 4, connecting said inner and outer walls at the corners. Embedded in the inner walls 3, are bracing elements 5, having extensions 6, which extend into the webs 4. The bracing elements are preferably formed of a single piece of wire, formed into the shape of the wall and platted or twisted at the corners to provide the extensions 6. By thus forming the extensions small openings are formed between the wire into which the concrete enters to more rigidly hold the reinforcing element in position, to add strength to the block. I have shown two reinforcing elements 5, embedded in the wall 3, and it is evident others may be utilized if found desirable. Embedded in the other wall 2, are reinforcing elements 7, formed of wire. The

elements 7, as stated are preferably formed of wire, and each one consists of a single piece bent to conform to the shape or outline of the block, and having the ends twisted, as at 8. One of the elements 7, may be extended from the block to provide a loop 9, by which means the blocks can be tied to or held in position to the surrounding structure.

A block constructed as herein described has its upper and lower faces flush to be readily placed one on the other in the formation of a chimney, and by providing the ventilating spaces around the chimney opening proper 22, danger of overheating is overcome, and if desired said spaces may be tapped for ventilating the room.

In concrete blocks it is well known that the mass must be strengthened to properly reinforce it, particularly where webs are employed to lighten the structure. I have therefore provided the specific form of reinforcing element whereby a strong and durable concrete construction is provided.

What I claim is:—

1. A concrete chimney block comprising inner walls forming a flue, and outer walls spaced from and surrounding the inner walls, webs connecting the inner and outer walls, a reinforcing element extending entirely around and embedded within the outer walls, said element having openings at determinate points for the passage of the concrete, and a reinforcing element provided with extensions having openings for the passage of the material forming the walls, the latter reinforcing element being embedded in the inner walls, and the extensions embedded in the webs.

2. A concrete chimney block comprising inner walls forming a flue, and outer walls spaced from and surrounding the inner walls, webs connecting the inner and outer walls, a reinforcing element formed of wire having its ends twisted and embedded in the outer walls, a reinforcing element formed of wire and having the ends secured together and provided with twisted extensions and embedded in the inner walls and the webs.

3. A concrete block provided with inner walls forming a flue, and outer walls spaced from and surrounding the inner walls, and webs connecting the inner and outer walls,

reinforcing elements embedded in inner and
outer walls, one of said reinforcing elements
having extensions formed with openings and
embedded in the webs, and one of said rein-
5 forcing elements extending beyond the end
of the chimney block to provide means for
attaching said block to a building.

In testimony whereof I affix my signature,
in presence of two witnesses.

JOHN W. WHITE.

Witnesses:

E. A. WHITE,
JOHN W. RUMMAGE.