

(No Model.)

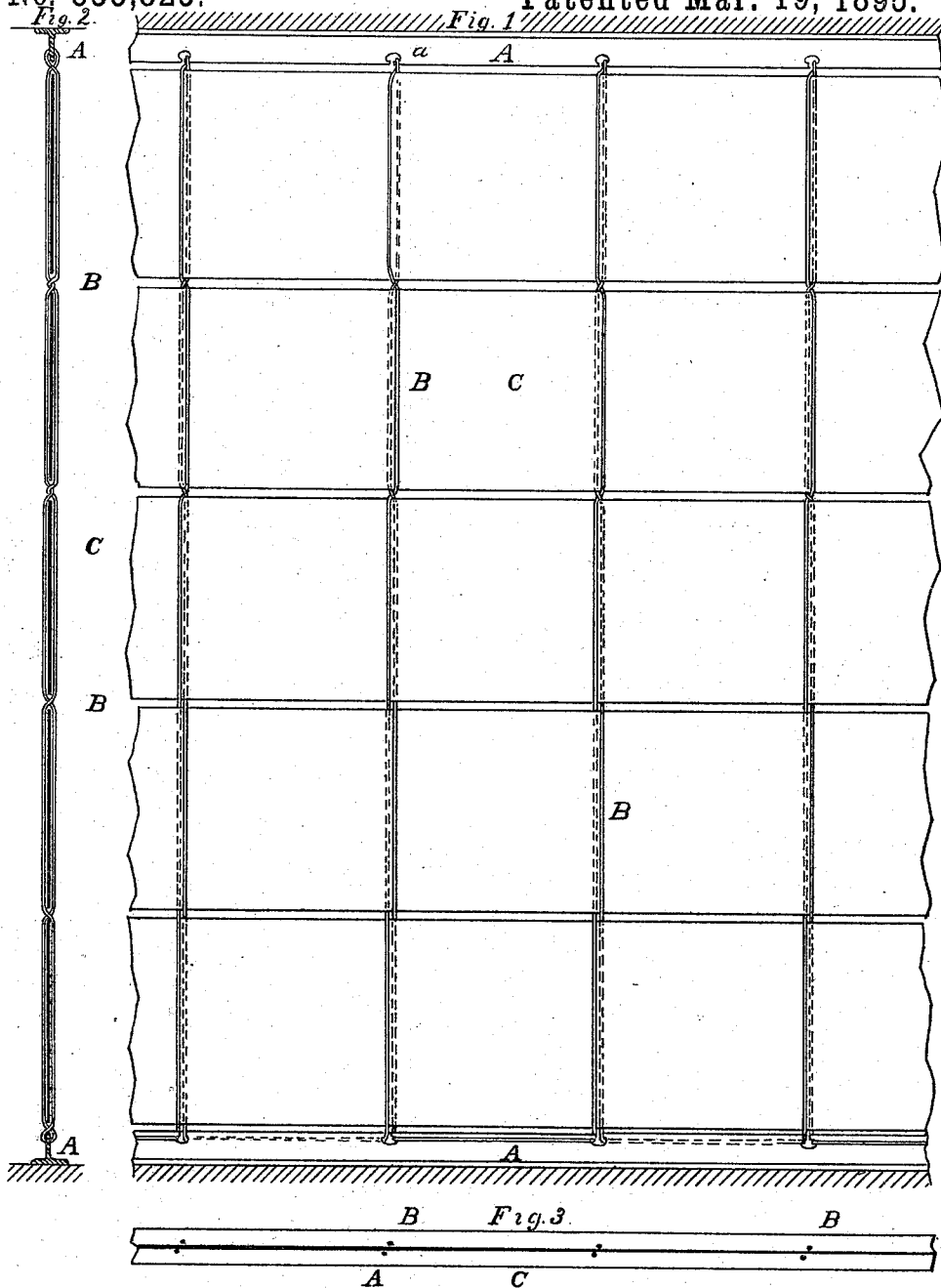
2 Sheets—Sheet 1.

B. E. J. EILS.

FIREPROOF FURRING AND PARTITION OR WALL.

No. 535,823.

Patented Mar. 19, 1895.



WITNESSES:

Chas. E. Paulson
A. B. Sogge.

INVENTOR

B. E. J. Eils

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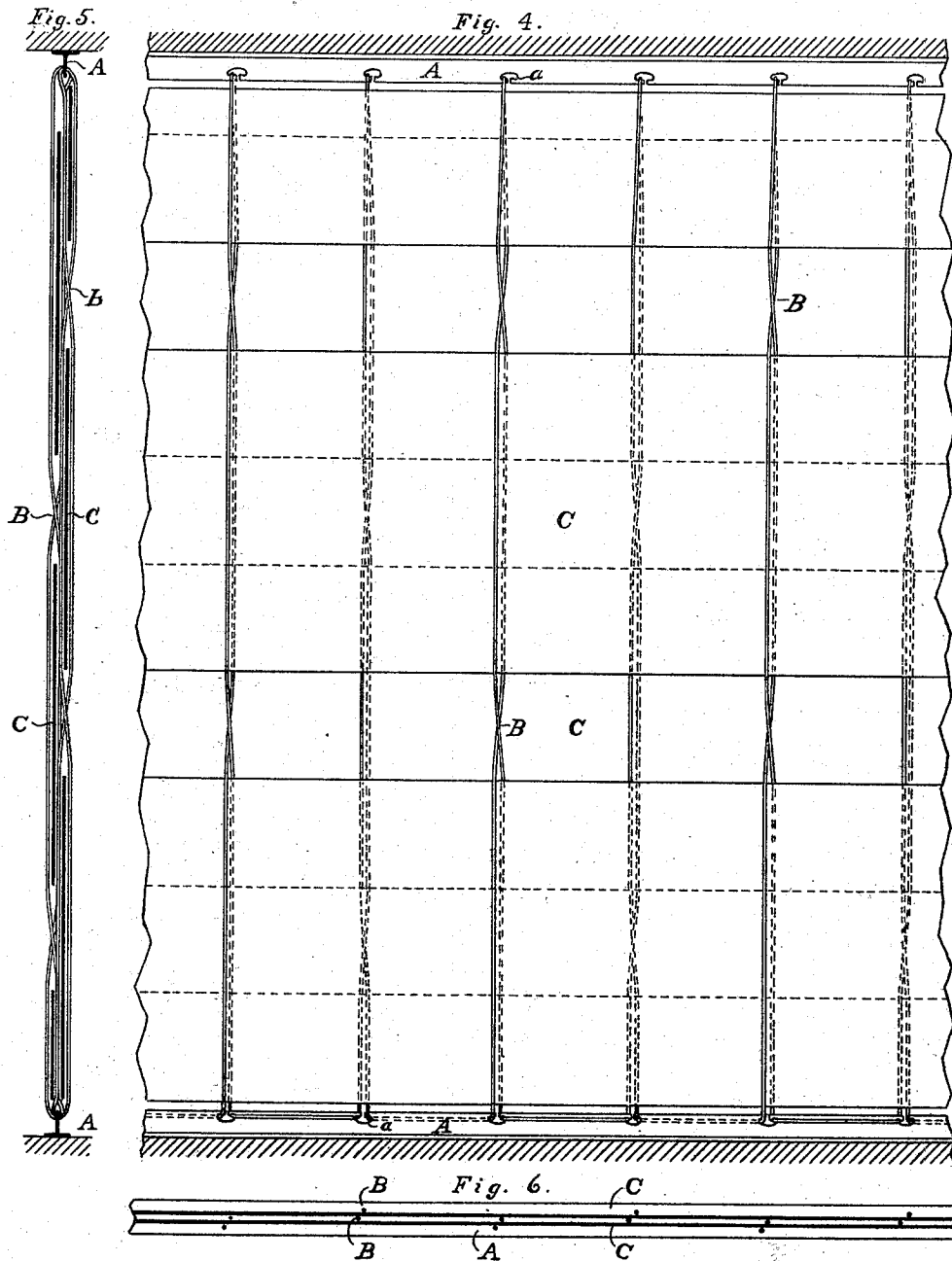
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Chas. E. Paulson
W. H. Bapel.

INVENTOR

B. E. J. Eils.
BY

W. H. Townsend
ATTORNEY

UNITED STATES PATENT OFFICE.

BETTE E. J. EILS, OF NEW YORK, N. Y.

FIREPROOF FURRING AND PARTITION OR WALL.

SPECIFICATION forming part of Letters Patent No. 535,823, dated March 19, 1895.

Application filed February 24, 1894. Serial No. 501,436. (No model.)

To all whom it may concern:

Be it known that I, BETTE E. J. EILS, a citizen of the United States, residing in the city, county, and State of New York, have invented a new and useful Improvement in Fireproof Furrings and Partitions or Walls, of which the following is a specification.

My invention consists also broadly in the combination, in a fireproof wall or partition, of a series of double strands of wire attached only to suitable supports at the edges of the wall or partition and strained between them, and sheets or belts of metallic lathing inserted in loops formed in said strained double strands by crossing or twisting them together at intervals.

This invention relates to fireproof furrings and partitions or walls in which a metallic web is used covered by or embedded in mortar or plaster.

My improvement consists in constructing the metallic web of a series of strained double strands of wire, formed of continuous wire strung back and forth between suitable supports which strands are crossed or twisted together at intervals to form loops, and sheets or belts of metallic lathing inserted in said loops.

In the annexed drawings Figure 1 represents an elevation of such a metallic web. Fig. 2 represents a vertical section thereof. Fig. 3 represents a horizontal section thereof. The other figures represent what may be termed a double thickness web of this description, Fig. 4 representing an elevation, Fig. 5 a vertical section, and Fig. 6 a horizontal section.

The same letters of reference are used in all the figures to designate identical parts.

In constructing a metallic web of this description for a partition or wall I prefer to use T-irons A A, fastened respectively to the floor and to the ceiling and provided with T-shaped slots or notches *a*, and a continuous wire B strung back and forth from T-iron to T-iron through the T-slots therein, properly strained in the course of stringing, so as to form a series of strained double strands. The sheets of metallic lathing C are then inserted between said double strands belt after belt, each double strand of wire being crossed

or twisted together after the insertion of each belt of lathing, though no crossing or twisting is necessary after the insertion of the last belt, unless it be done for the purpose of tautening the strands of wire so as to straighten up and stiffen the web. It will be observed that in thus crossing or twisting the double strands of wire loops are formed therein for the support of the belts of lathing, so that the latter can all remain straight and stand in a vertical plane, producing a web that does not exceed in thickness the thickness of a sheet of lathing, as shown in Figs. 1, 2, and 3. The use of such crossed or twisted double strands of wire also affords the opportunity of readily making a web of double thickness, as shown in Figs. 4, 5, and 6. The use of double strands of wire also has the advantage that wire of lighter gage can be used, which can be more easily strung and strained, and yet the requisite strength obtained.

I do not claim the use of a continuous wire and T-slotted bars in a web of this description; nor do I confine myself to such use, as the double strands may be separate pieces of wire secured in any suitable manner.

I abstained from illustrating or describing the application of mortar or plaster to such a web, because it is well understood by those skilled in the art.

I claim as my invention—

1. A metallic web for fireproof furrings or partitions composed, substantially as before set forth, of a series of strained double strands of wire formed of continuous wire strung back and forth between suitable supports and crossed or twisted together at intervals whereby loops are formed, and sheets or belts of metallic lathing supported in said loops of wire.

2. In a fireproof wall or partition, a series of double strands of wire, attached only to suitable supports at the edges of the wall or partition and strained between them, in combination with sheets of metallic lathing inserted in loops formed by crossing or twisting the said strands together at intervals.

B. E. J. EILS.

Witnesses:

F. S. BELLEVUE,
FRANCIS C. MORSE.