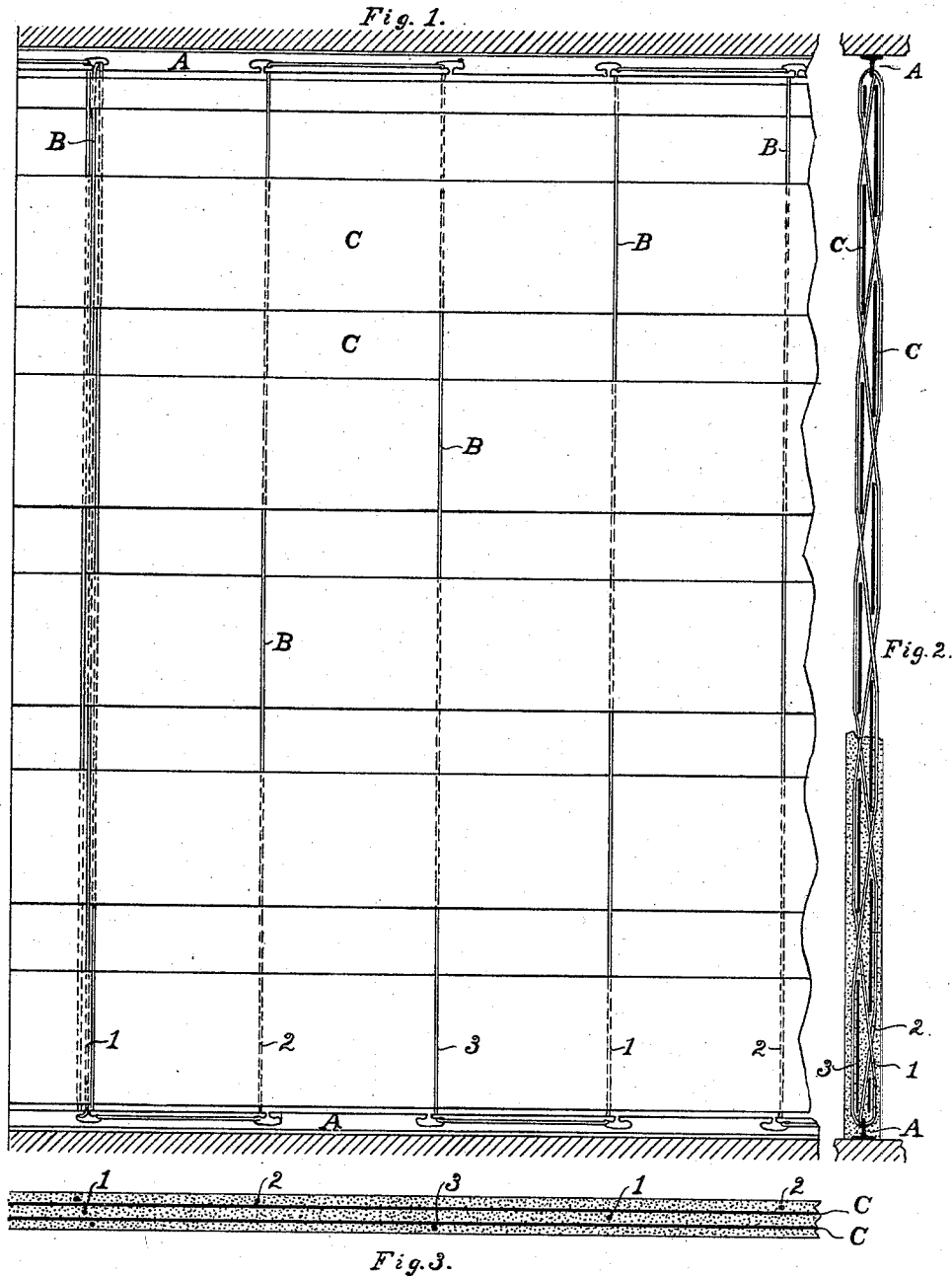


(No Model.)

N. POULSON.
FIREPROOF PARTITION OR WALL.

No. 535,857.

Patented Mar. 19, 1895.



WITNESSES:

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INVENTOR

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UNITED STATES PATENT OFFICE.

NIELS POULSON, OF FORT HAMILTON, NEW YORK.

FIREPROOF PARTITION OR WALL.

SPECIFICATION forming part of Letters Patent No. 535,857, dated March 19, 1895.

Application filed June 22, 1894. Serial No. 515,335. (No model.)

To all whom it may concern:

Be it known that I, NIELS POULSON, a citizen of the United States, and a resident of Fort Hamilton, in the county of Kings and State of New York, have invented a certain new and useful Improvement in Fireproof Partitions or Walls, of which the following is a specification.

My invention relates to fireproof partitions, walls or furrings built up of strained wires and metallic or other strips or lathing, the whole forming a web upon which the plaster or cement is applied.

My invention consists essentially in constructing the metallic web for the partition, wall or furring, from strained wires and strips or lathing which are inserted in said wires in two or more thicknesses or layers overlapping each other and in such manner that the wires are practically braided around the strips thereby holding the lathing in place and also forming an exceedingly stiff structure all parts of which are bound together.

In the accompanying drawings:—Figure 1, is a side elevation of a part of the metallic web for a wall or partition constructed in accordance with my invention. Fig. 2, is a vertical section through the same showing the relation of the strained wires of a set to the two layers of strips or lathings. Fig. 3, is a horizontal section through the wall or partition where the plaster is applied.

A, A, indicate bars, preferably T bars, of iron fastened respectively to floor and ceiling when the web is used for a partition or to other convenient support according to the desired location of the web. These bars are furnished with suitable eyes at *a*, slotted as indicated to facilitate the stringing of a continuous wire B, which is strung back and forth from bar to bar through the eyes, as shown, being properly strained in stringing, and forming a series of strands in which the transverse belts of lathing C, C, are supported in two layers as indicated.

The metallic strips or laths C, C, are inserted between the strands to form two layers, as indicated in Fig. 2. In applying them the strands are used in sets of threes as shown by

the numbers 1, 2, 3, and the strips in each layer are inserted to pass over two and under one or vice versa, systematically, as shown.

Assuming the workman to stand at one side of the partition Fig. 2, in building up the web, the lowest strip in the layer next him is shown as passing over strands 1, 2, and under 3, while the next wide strip in the layer farthest from him is passed over strands 2, and under strands 1 and 3. In the next belt above and nearest him the strip is passed over strands 2 and 3, and under strand 1, and in the third belt on the same side over strands 3 and 1 and under strands 2, after which the operation is repeated beginning with No. 4 strip on that side. A corresponding variation is made in the successive belts of the other layer, as shown, so that the strands are braided or interwoven with the belts and the whole firmly held together. When plastered it becomes a very strong partition, as the plaster will be between and on the outside of the two layers of lathing, thereby forming a stronger key for the plaster than when the lathing is only used single thickness. This partition has also the advantage that the lathing can be easily adjusted according to the height between floor and ceiling.

The strands might be grouped in threes, as indicated at the left of Fig. 1, instead of being distributed, and the belts or strips of lathing inserted in substantially the same manner.

I do not limit myself to a continuous strained wire nor to the particular means shown whereby the same is held strained.

Obviously my invention may be extended to three or more layers of lathing and the strained wires used in fours, or sets having a greater number in each set.

What I claim is—

1. In a fireproof wall, partition or furring, a metallic web formed from strained wires and strips or belts of lathing inserted in said wires in two or more thicknesses or layers, as described, so that the wires will be braided around the strips.

2. In a fireproof wall, partition or furring,

the combination, substantially as described,
with strained wires, of strips or belts of lath-
ing inserted in said wires in two or more
thicknesses or layers overlapping each other,
5 as described, and with the wires interwoven
with the strips of both layers.

Signed at New York, in the county of New

York and State of New York, this 21st day of
June, A. D. 1894.

NIELS POULSON.

Witnesses:

WM. H. CAPEL,
T. F. CONREY.