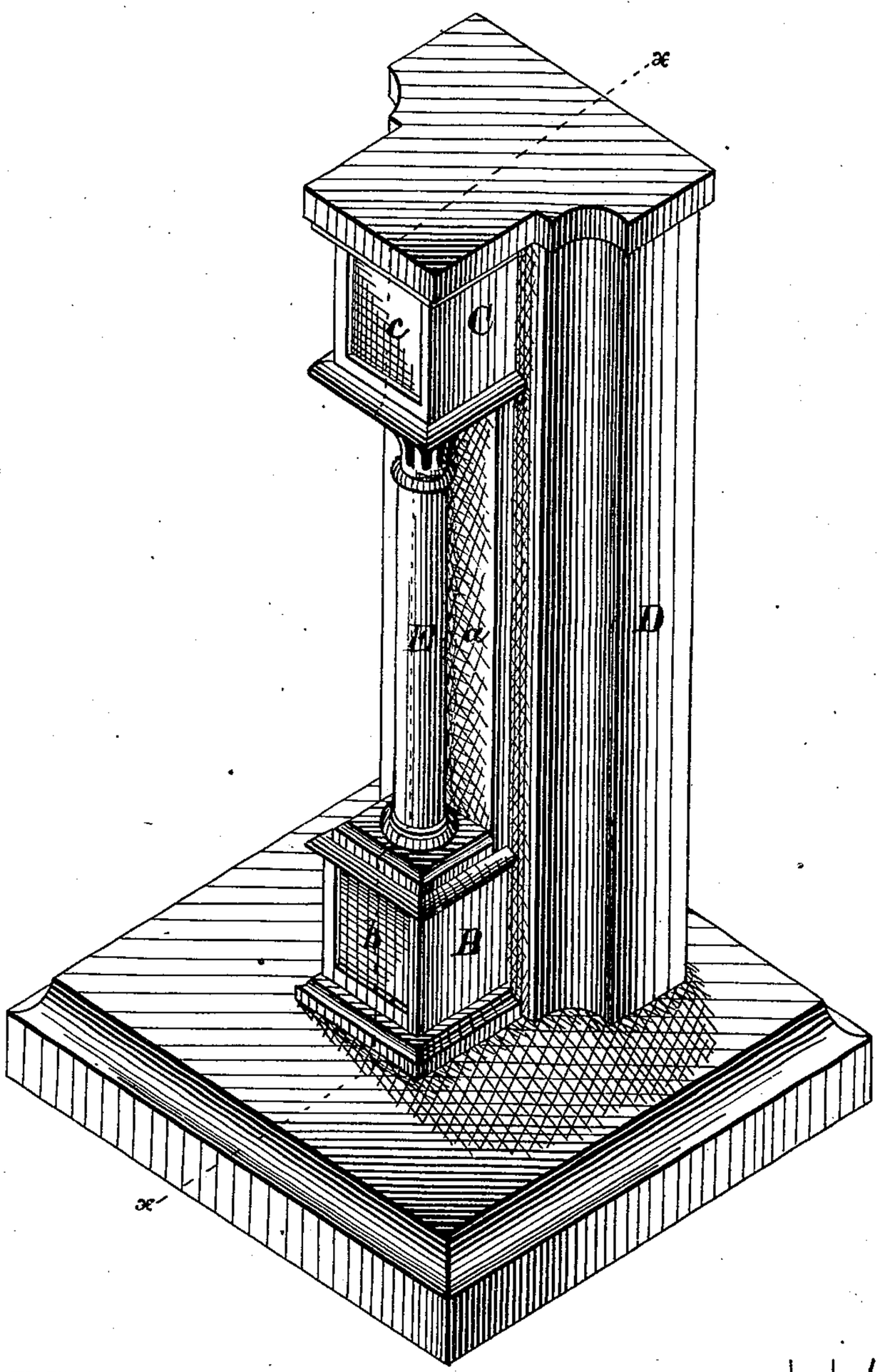
2 Sheets--Sheet 1.

P. J. HARDY.

Construction of Columns and Pilasters.

No. 163,994. Patented June 1, 1875.

Fig. 1.



WITNESSES:

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2 Sheets--Sheet 2.

P. J. HARDY.

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Fig. 2.

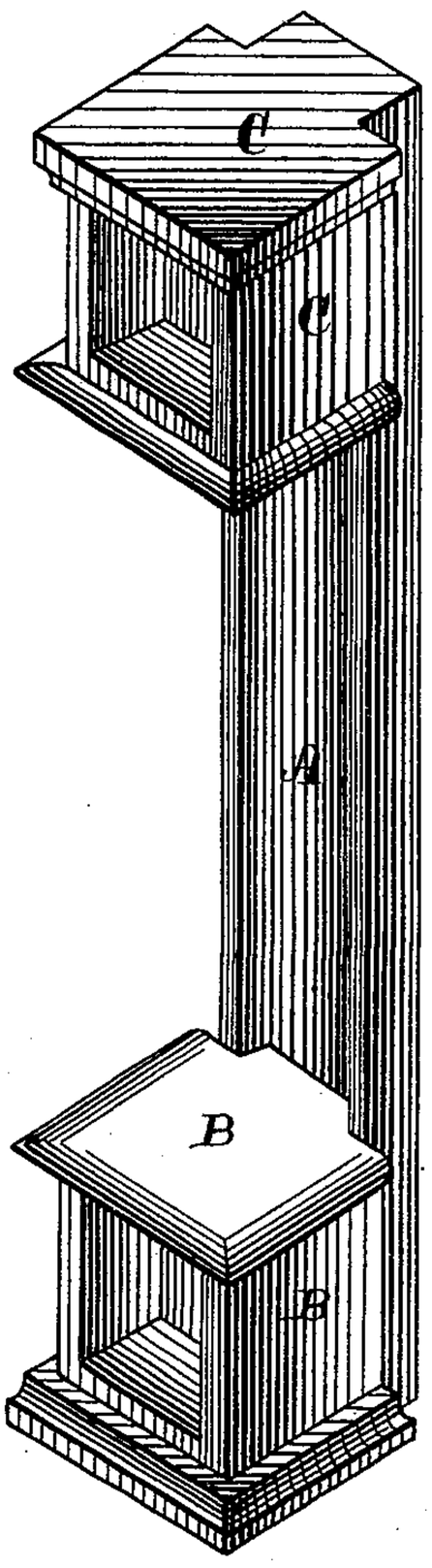
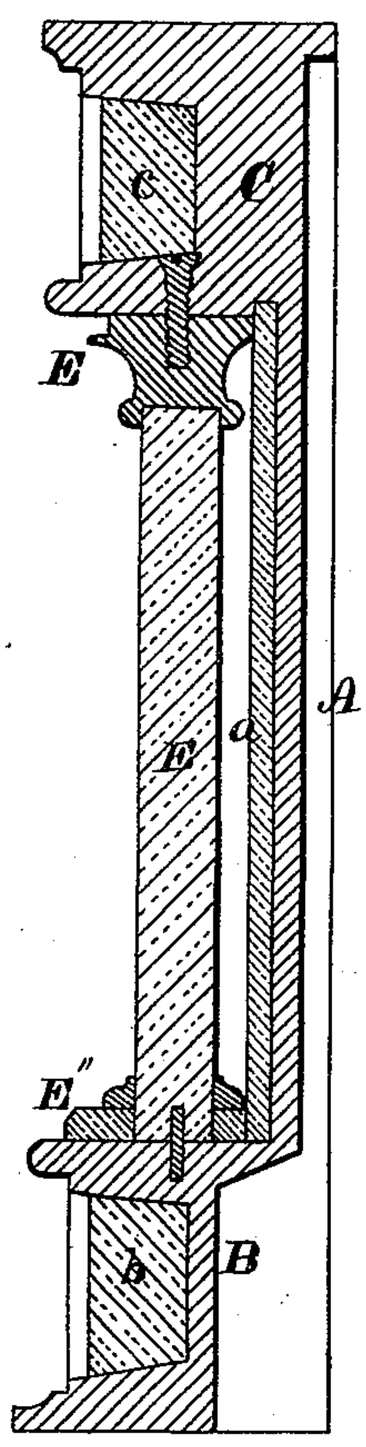


Fig. 3.



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UNITED STATES PATENT OFFICE.

PIERRE J. HARDY, OF NEW YORK, N. Y.

IMPROVEMENT IN THE CONSTRUCTION OF COLUMNS AND PILASTERS.

Specification forming part of Letters Patent No. **163,994**, dated June 1, 1875; application filed May 1, 1875.

CASE B.

To all whom it may concern:

Be it known that I, PIERRE J. HARDY, of New York city, in the county of New York, and in the State of New York, have invented certain new and useful Improvements in the Application of Marble or other Stone to the Ornamentation of Columns; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view of a column in high relief constructed in accordance with my improved method. Fig. 2 is a like view of the metal portion of the same separated from the structure, and having the stone portions removed; and Fig. 3 is a vertical section upon line *x x* of Fig. 1.

Letters of like name and kind refer to like parts in each of the figures.

The design of my invention is to enable metal and marble or other stone to be combined in such manner as to cause a structure to present all the appearance of strength and beauty usually found in those composed wholly of stone, without rendering necessary the large expense attendant upon the construction of the latter; to which end it consists in a wall or high-relief column, composed of a supporting-frame, base, and capital constructed from metal, and combined with a stone shaft, substantially as and for the purpose hereinafter specified.

In the annexed drawings, A represents the frame of my column, composed of metal in the form shown, and having cast or otherwise secured upon its upper and lower ends, respectively, a base, B, and frieze C, which have any desired exterior form. The frame, thus constructed, is built into a wall, D, with the face of its vertical portion flush with the face of said wall, after which a stone shaft, E, is placed between the base B and frieze C, and at its ends is secured in lateral position by dowel-pins *e*, bolts *e'*, or any other equivalent means.

If desired, the capital E' and molding E'' of the column C may be composed of the same material, and, in fact, may form parts of the same; but I prefer to construct said parts, wholly or in part, from metal, so as to secure a contrast between the same and the stone. I also prefer to recess the face of the frame A and the front or front and side faces of the base B and frieze C, and fit within the same correspondingly-shaped panels of stone *a*, *b*, and *c*, respectively, by which construction a more ornamental appearance is secured without a sacrifice of any useful strength of parts.

It is intended that the metal frame shall possess sufficient strength to enable it to sustain the entire weight; but it will be seen that the stone shaft is placed in an advantageous position to enable it to bear its proportion of weight, if desired.

The column described can be made to present a more ornamental appearance than one constructed wholly from either metal or stone, while its cost is materially less than would be possible if stone alone entered into its composition.

Having thus fully set forth the nature and merit of my invention, what I claim as new, is—

The combination of the metal supporting-frame A, base B, and frieze C with the stone shaft E, substantially as and for the purpose specified.

In testimony that I claim the foregoing I have hereunto set my hand this 28th day of April, 1875.

PIERRE J. HARDY.

Witnesses:

GEO. S. PRINDLE,

WILLIAM FITCH.