No. 813,183. PATENTED FEB. 20, 1906.

J. J. TRESIDDER.

FIREPROOF COLUMN AND COLUMN CAP.

APPLICATION FILED OCT. 23, 1905.

Fig: 1.

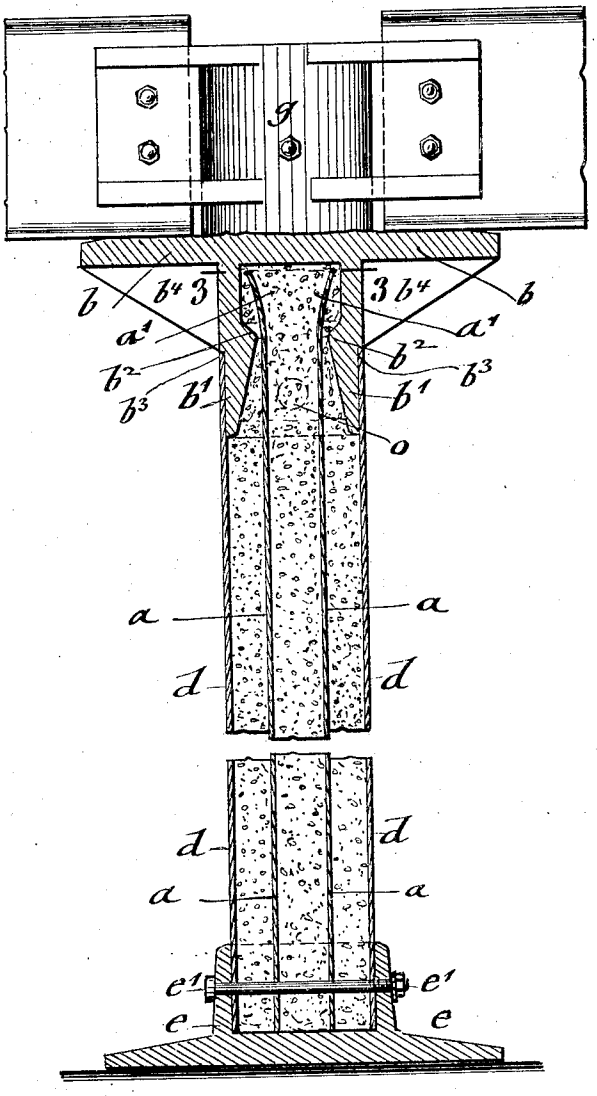
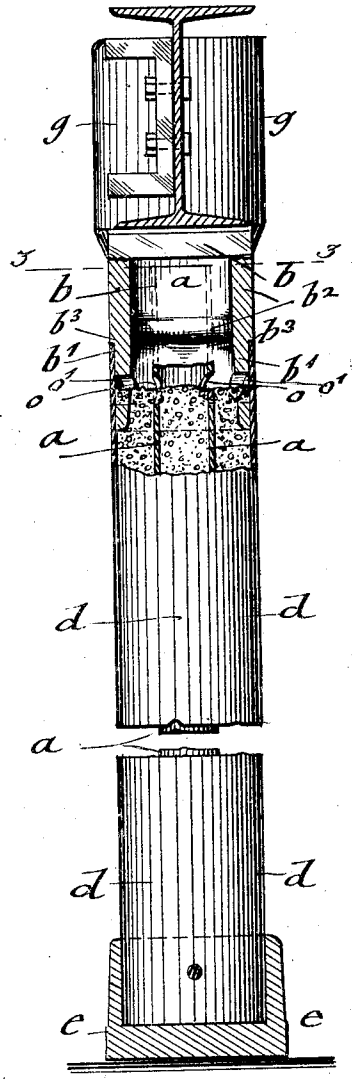


Fig: 2.



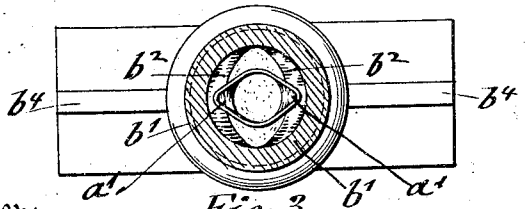


Fig: 3.

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UNITED STATES PATENT OFFICE.

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FIREPROOF COLUMN AND COLUMN-CAP.

No. 813,183. Specification of Letters Patent. Patented Feb. 20, 1906.

Application filed October 23, 1905. Serial No. 283,914.

To all whom it may concern:

Be it known that I, JOHN J. TRESIDDER, a citizen of the United States, residing in New York, in the borough of Brooklyn and State of New York, have invented certain new and useful Improvements in Fireproof Columns and Column-Caps, of which the following is a specification.

This invention relates to an improved column and column-cap for fireproof-buildings, said column being composed of metal and fireproof material and assembled on the place of use for direct application; and for this purpose the invention consists of a fireproof column and cap which comprises a base, an interior hollow or solid core or pillar provided with a flattened upper end, a column-cap provided with a socket having an interior recess for interlocking with the flattened end of the core or pillar to be passed through, the lower end of the socket being tapering, an exterior shell or jacket fitted over the lower exterior end socket of the column-cap, and a fireproof filling for the socket of the column-cap and the interior of the core and outer shell.

The invention consists, further, of certain additional features of construction, which will be fully described, and finally pointed out in the claims.

In the accompanying drawings, Figure 1 represents a vertical central section of my improved column and cap. Fig. 2 is a side elevation, partly in vertical section, at right angles to the section shown in Fig. 1; and Fig. 3 is a horizontal section on line 3 3, Fig. 2.

Similar letters of reference indicate corresponding parts in the different figures of the drawings.

Referring to the drawings, *a* represents an interior hollow or solid core or pillar which is made of the required height and which is flattened at its upper end, so as to form an oval or elongated portion *a'*, as shown clearly in Figs. 1 and 3. The flattened upper end *a'* of the interior core or pillar *a* is inserted into the interior of the socket *b'* of a column-cap *b*, which socket has a contraction b^2 for receiving the flattened end *a'* of the core or pillar *a*. The lower part of the socket *b'* is diminished in thickness, so as to taper toward its end, as shown in Fig. 1. When the flattened end of the core or pillar *a* is inserted into the contracted portion b^2 of the socket *b'* and then turned on its axis, so as to interlock with the contracted portion of the socket, it forms a lock with the same. A fireproof filling, such as concrete, is then inserted into the space between the socket *b'* of the column-cap *b* and the end of the core or pillar and into the space in the hollow core and an exterior jacket or shell *d*, the core and jacket being placed in vertical position for this purpose. The socket of the column-cap *b* is provided with an exterior shoulder b^3, adjacent to the strengthening-ribs b^4 of the cap, the shoulder serving as an abutment for the upper end of the exterior jacket or shell *d*, which is made of cast-steel or other suitable metal, like the core or pillar. The upper end of the core *a* and the lower part of the socket *b'* of the column-cap *b* are provided with alined openings *o o'*, into which the fireproof filling, such as concrete, enters when the same is poured into the space at the interior of the core or pillar and in the space between the socket and exterior shell, the concrete forming an anchor or lock for connecting the parts together, while binding the remaining portions of the column firmly together and imparting great strength and superior fireproof quality to the same. The column-cap *b* is provided with a socket *g* for supporting the column next above and with flanges for making connection with the I-beams, which are supported on the beam-seats of the cap *b* in the usual manner. The lower ends of the core and jacket are supported in the socket of a base *e* and locked thereto by inserting and turning the flattened lower end of the core or pillar in the contracted inner portion of the base in the same manner as the interlocking of the upper end of the core or pillar with the socket of the column-cap is accomplished. The base may, however, be attached by bolts *e'* or in any other manner to the lower ends of the core and jacket.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A fireproof column, consisting of an interior core or pillar provided with a flattened upper end, a column-cap provided with a socket having an interior contracted portion corresponding in shape to the flattened end, an exterior shell or jacket placed over the

lower part of the socket of the column-cap, means for connecting the socket, core and jacket, and a fireproof filling for the interior of the core, socket and exterior jacket or shell.

2. A fireproof column, consisting of an interior core or pillar provided with a flattened upper end, a cap provided with a socket tapering toward its lower end and provided with an interior contracted portion corresponding with the shape of the flattened end, an exterior jacket or shell placed on the socket of the column-cap, the interior core and socket being provided with alined openings, and a fireproof filling in the interior core and between the socket and exterior jacket or shell, said filling entering said openings and forming an anchor between the core and socket.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

JOHN J. TRESIDDER.

Witnesses:

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