No. 862,681. PATENTED AUG. 6, 1907.

J. J. TRESIDDER.

FIREPROOF COLUMN.

APPLICATION FILED OCT. 23, 1905

Fig: 2.

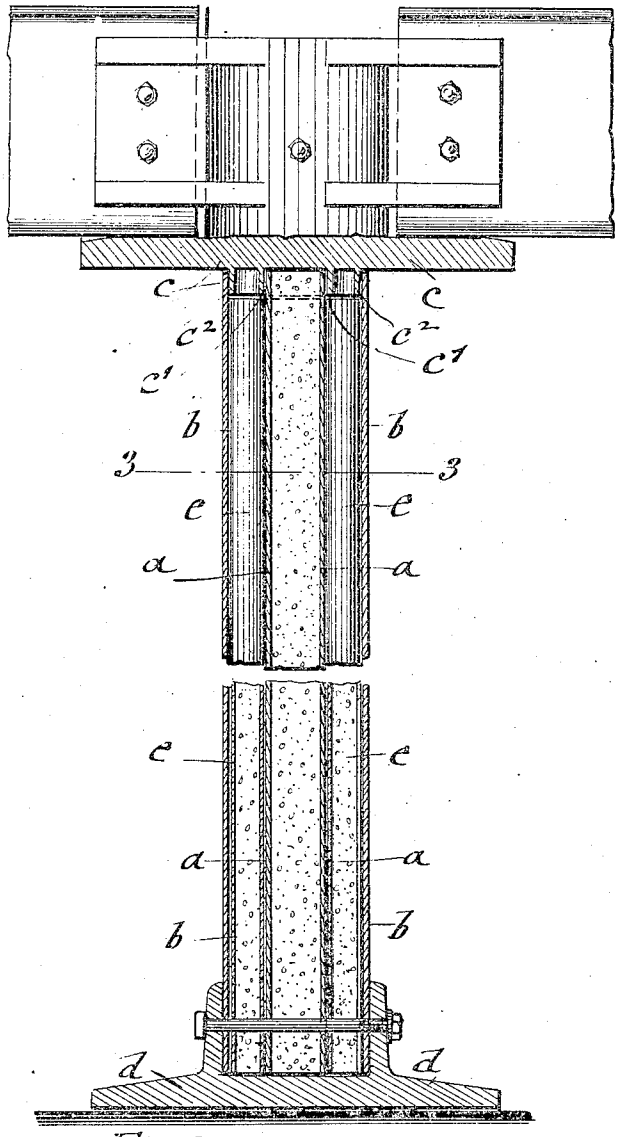



Fig: 1.

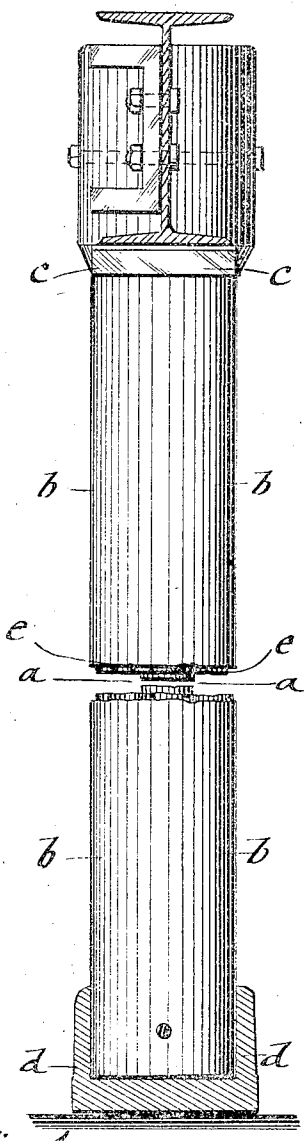



Fig: 3

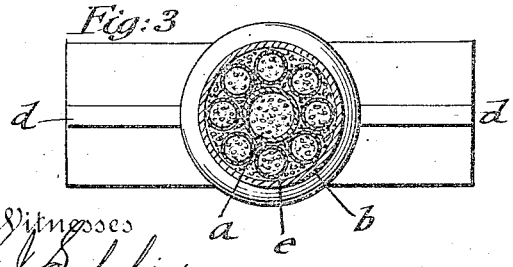
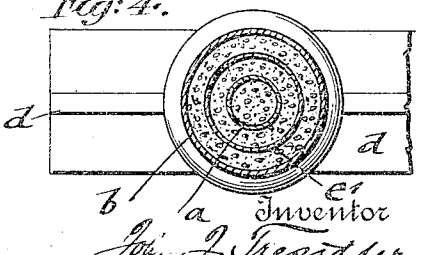



Fig: 4.




Witnesses
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# UNITED STATES PATENT OFFICE.

JOHN J. TRESIDDER, OF NEW YORK, N. Y., ASSIGNOR TO AMERICAN COLUMN COMPANY, OF BROOKLYN, NEW YORK, A CORPORATION OF NEW YORK.

## FIREPROOF COLUMN.

No. 862,681. Specification of Letters Patent. Patented Aug. 6, 1907.

Application filed October 23, 1905. Serial No. 283,915.

*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, of which the following is a specification.

This invention relates to an improved fireproof column which is made from hollow metal bodies and fireproof filling so as to impart great strength and fireproof quality to the column; and for this purpose the invention consists of a fireproof column which is composed of an interior tubular core or pillar, an exterior shell or jacket, a plurality of tubes arranged in the space between the inner pillar and outer shell, and a fireproof filling in the tubes and the spaces between the tubes and interior pillar and jacket or shell, as will be fully described hereinafter and finally pointed out in the claims.

In the accompanying drawings, Figure 1 represents a side-elevation of my improved fireproof column, Fig. 2 is a vertical central section, Fig. 3 is a horizontal section on line 3—3, Fig. 2, and Fig. 4 is a horizontal section of a modified construction of the column.

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

Referring to the drawings, *a* represents an interior core or pillar, which is preferably made in tubular shape and of cast-steel or other suitable metal.

The interior tubular core or pillar *a* is surrounded by an exterior metallic jacket or shell *b* which is supported together with the core *a* on a base *d* and surmounted by a column-cap *c* which is provided with concentric rims $c^1$, $c^2$, the interior rim $c^1$ fitting around the pillar and the exterior rim $c^2$ fitting into the upper end of the shell *b*.

In the annular space between the interior pillar and the outer shell are interposed a number of sheet-metal tubes *e* and the interior core and tubes, as well as the spaces between the tubes and the interior pillar and exterior shell, are then filled up with concrete or other fireproof material.

In place of the tubes *e* between core *a* and jacket *b*, one or more tubes $e^1$ concentric with the core and jacket, may be arranged, as shown in Fig. 4, and the spaces in the core and between it and the concentric tubes and the space between the latter and the jacket filled with fireproof material.

By the constructions described, a compound column is obtained which is composed entirely of metal and concrete and which combines thereby increased strength with superior fireproof quality, said column being specially used in buildings in which heavy loads are supported and in which extra-strength and resistance against crushing are required.

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

1. A multiple column comprising an outer casing or jacket and a plurality of tubes within the same, one of the inner tubes being eccentric with relation to the outer jacket, and a plastic filling between the other jacket and the inner tubes.

2. A multiple column comprising a primary casing or jacket, a plurality of tubes therein each eccentric with relation thereto, a plastic filling for the inner tubes, and a plastic filling surrounding the inner tubes.

3. A fireproof column, consisting of an interior core or pillar, an exterior jacket or shell surrounding the same, intermediate tubes between the core and jacket and eccentric to the same, and a fireproof filling in the core, the tubes and the spaces between the same and the pillar and shell.

4. A fireproof column, consisting of an interior core or pillar, an exterior jacket or shell surrounding the same, tubes in the space between the interior core and outer jacket, and eccentric to the same a fireproof filling in the interior of the core and tubes and in the spaces between the tubes, pillar and jacket and a column-cap for the core, tubes and jacket.

5. A fireproof column, consisting of an interior core or pillar, an exterior jacket or shell, tubes in the space between said core and jacket, and eccentric to the same a base for said core and jacket, a column cap provided with concentric rims for the core and jacket, a fireproof filling for the core tubes and the spaces between the core tubes and jacket.

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:
PAUL GOEPEL,
HENRY J. SUHRBIER.