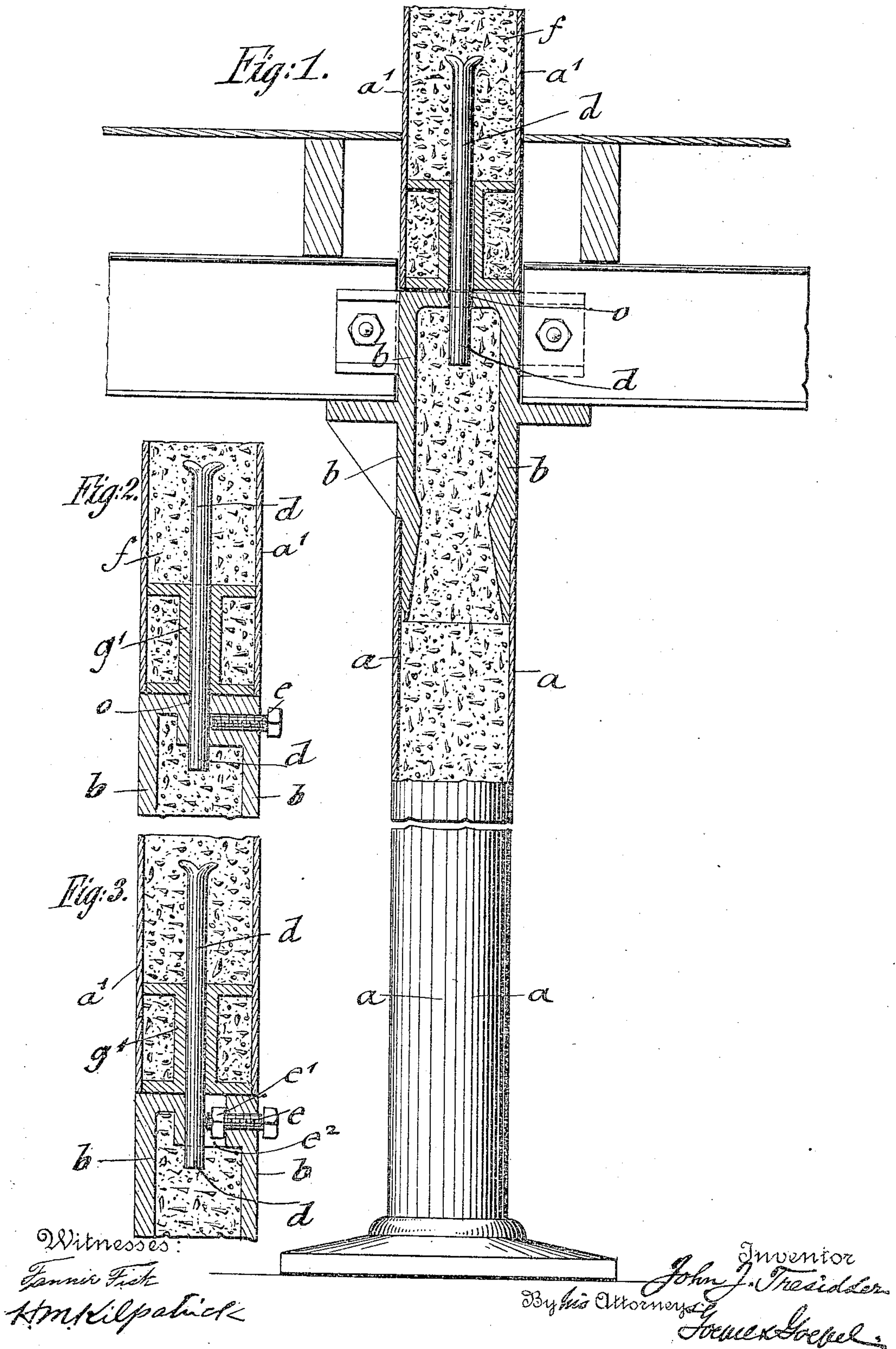


J. J. TRESIDDER.  
FIREPROOF COLUMN.  
APPLICATION FILED MAY 28, 1909.

960,125.

Patented May 31, 1910.





# UNITED STATES PATENT OFFICE.

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

## FIREPROOF COLUMN.

960,125.

Specification of Letters Patent.

Patented May 31, 1910.

Application filed May 28, 1909. Serial No. 498,856.

*To all whom it may concern:*

Be it known that I, JOHN J. TRESIDDER, a citizen of the United States, residing in New York, borough of Brooklyn, county of Kings, 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 fireproof columns, and more especially to the connection of the columns of one floor or series with the columns of the next adjacent floor or series; and for this purpose the invention consists of a fireproof column, which is connected with the adjacent column by a coupling-pin passing from the cap of the lower column into the next adjacent column, and means for centering said pin in the lower part of the upper column, as will be fully described hereinafter and finally pointed out in the claims.

In the accompanying drawings, Figure 1 is a vertical central section through a fireproof column, showing my improved coupling device for a lower and adjacent upper column and, Figs. 2 and 3 are detail sections showing the locking of the coupling-pin of the columns to the cap of the lower column.

Similar letters of reference indicate corresponding parts throughout the several views.

Referring to the drawings, *a* represents a fireproof column of that construction which is composed of a column of cast-metal and a filling of concrete.

*b* represents the cap of the column which is attached in any approved manner to the upper end of the column and united therewith by a filling of concrete. The lower column *a* is connected with the column *a*<sup>1</sup> of the next floor or series by a coupling device which consists of a pin *d* which is preferably forked at its upper end and extended through an opening *o* in the cap *b* into the base of the next adjacent column, the upper part of the locking pin *d* being held by a concrete filling *f* in the upper column, as shown in Figs. 1 and 3. The coupling-pin *d* may also be dropped through the base of the upper column through the hole of the cap of the lower column into the upper part of the latter, as the desired effect, namely the coupling together of the upper and lower columns, is thereby ob-

tained in the same reliable manner. The coupling-pin *d* is locked either to the cap of the lower column or to the base of the upper column by means of a set-screw *e* which passes through a lateral hole tapped in the cap or base into engagement with the coupling-pin *d* so as to firmly clamp the same in position. The set-screw *e* may be arranged to act directly on the coupling-pin *d*, or in some cases on the pin in connection with a screw-nut *e*<sup>1</sup> that is placed into a recess *e*<sup>2</sup> of the cap or base and then screwed home on the shank of the set-screw *e* in the nature of a jam-nut for holding the set-screw in position on the cap and coupling-pin *d*, as shown in Fig. 3.

In the construction shown in Fig. 1, the coupling-pin is held in the lower part of the upper column by a centering-collar *g*<sup>1</sup> and by the cement filling around the same, so that a very effective yet simple and quickly applied coupling between the adjacent tiers of the columns is obtained.

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

1. The combination of a pair of adjacent columns, a centering collar having an axial bore and spaced inner and outer flanges both flanges snugly fitting in the lower part of one of said columns, a centering piece having an axial bore and a thickened lug and abutting portion rigidly secured to the other of said columns, a coupling pin in the abutting portion of the centering piece and passing through the centering collar and having a forked end, a set screw passing through said thickened lug and the adjacent side of the column and contacting said coupling pin, a concrete-filling in said columns and around the forked end of the coupling pin and between said flanges.

2. The combination of a lower floor column, a cap for the same provided with a centering piece integral with the side and abutting portion of the cap and having an axial bore, an upper floor-column adjacent to the lower-floor column, a centering collar having an axial bore and upper and lower spaced flanges both snugly fitting in the lower part of the upper-floor column, a coupling pin in the abutting portion of the centering piece and extending through the abutting portion of the centering collar and having its free end forked, a set screw pass-



ing through said cap and centering piece and engaging said coupling pin, and concrete filling in said upper column around the forked end.

5 3. The combination of a lower floor column, a cap for the same, an upper-floor column adjacent thereto, a centering-collar at the lower part of base of the upper column, a coupling-pin extending through the cap of  
10 the lower column into the centering-collar of the upper column, a set-screw for locking the coupling-pin to one of the columns, and a jam-nut for holding the set-screw in position on the column and coupling-pin.

15 4. The combination, of a lower floor column, a cap for the same, an upper floor column, a centering-collar having upper and lower spaced flanges both fitting snugly within the lower part or base of the upper  
20 column, a coupling-pin extending through the cap of the lower column into the center-

ing-collar of the upper-column, and means locking the coupling-pin to one of the columns.

5. The combination of a lower-floor col- 25  
umn, a cap for the same, an upper-floor column, a centering-collar, having upper and lower spaced flanges both fitting snugly within the lower part or base of the upper column, a coupling-pin extending through 30  
the cap of the lower column into the centering-collar of the upper column, means locking the coupling-pin to one of the columns a concrete-filling in said upper column  
above and between said flanges. 35

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.