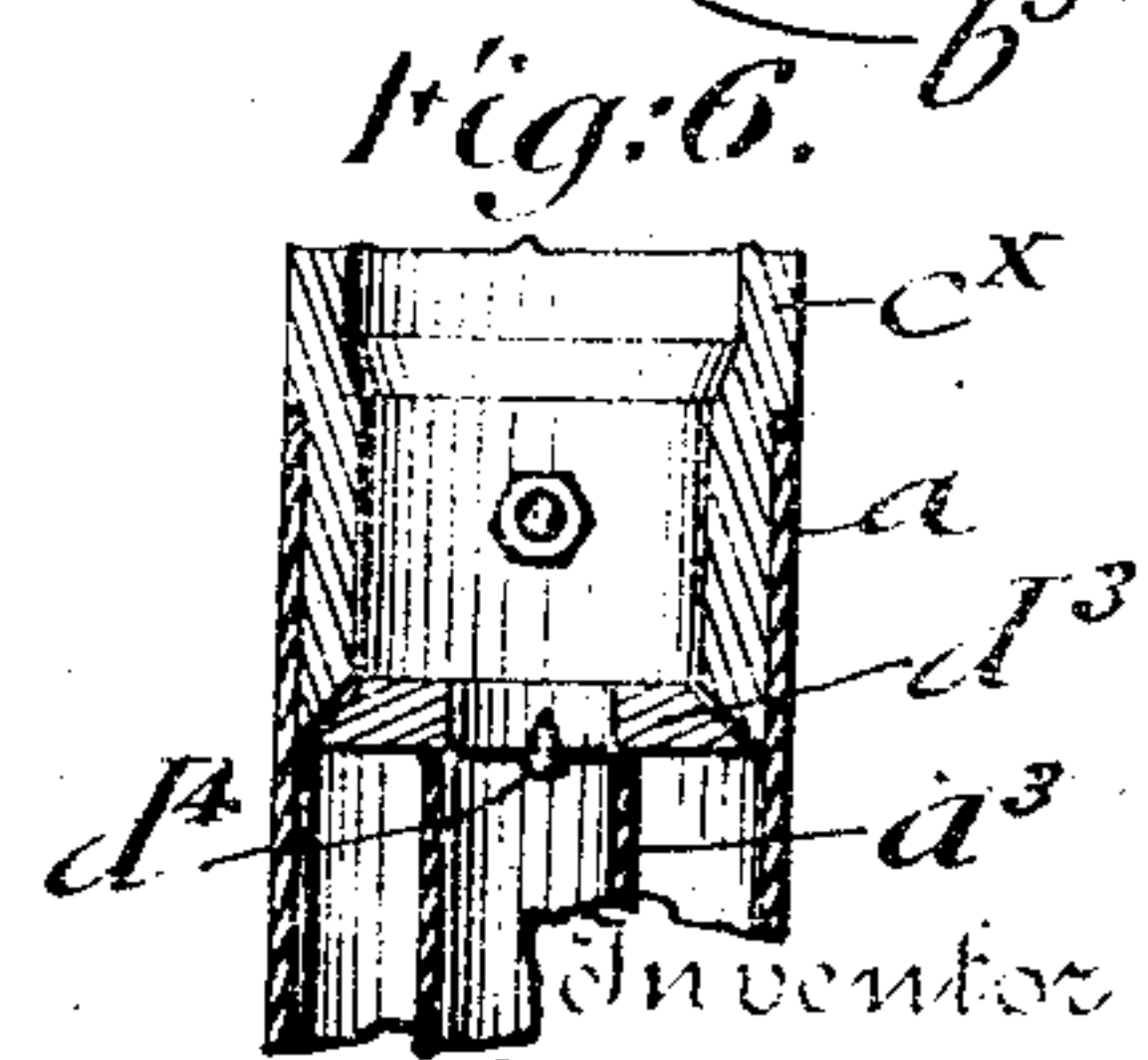
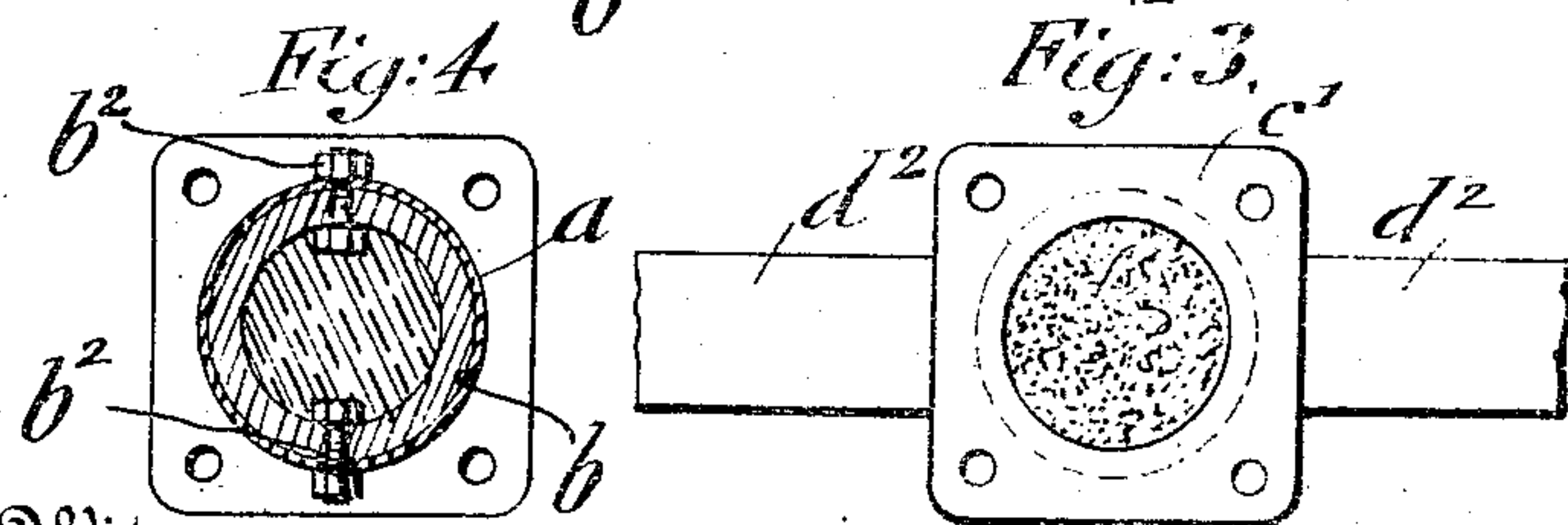
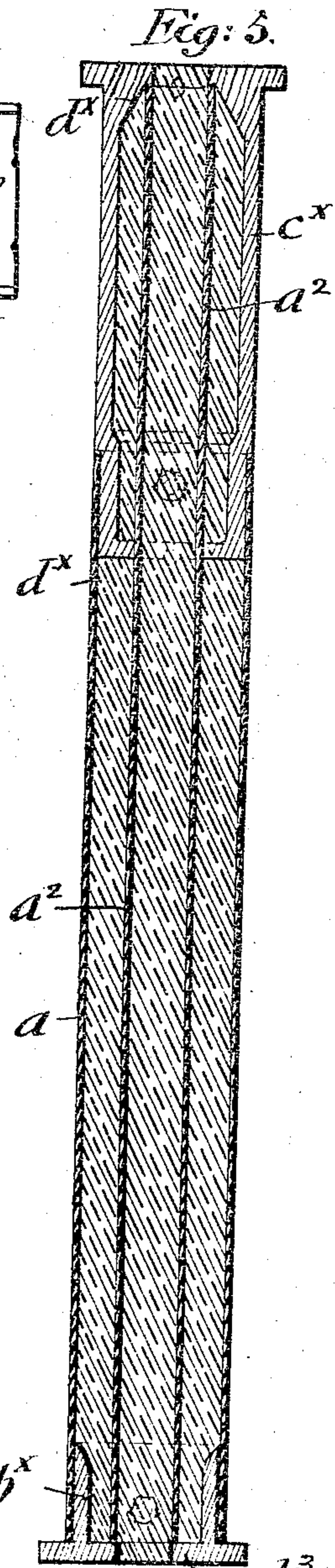
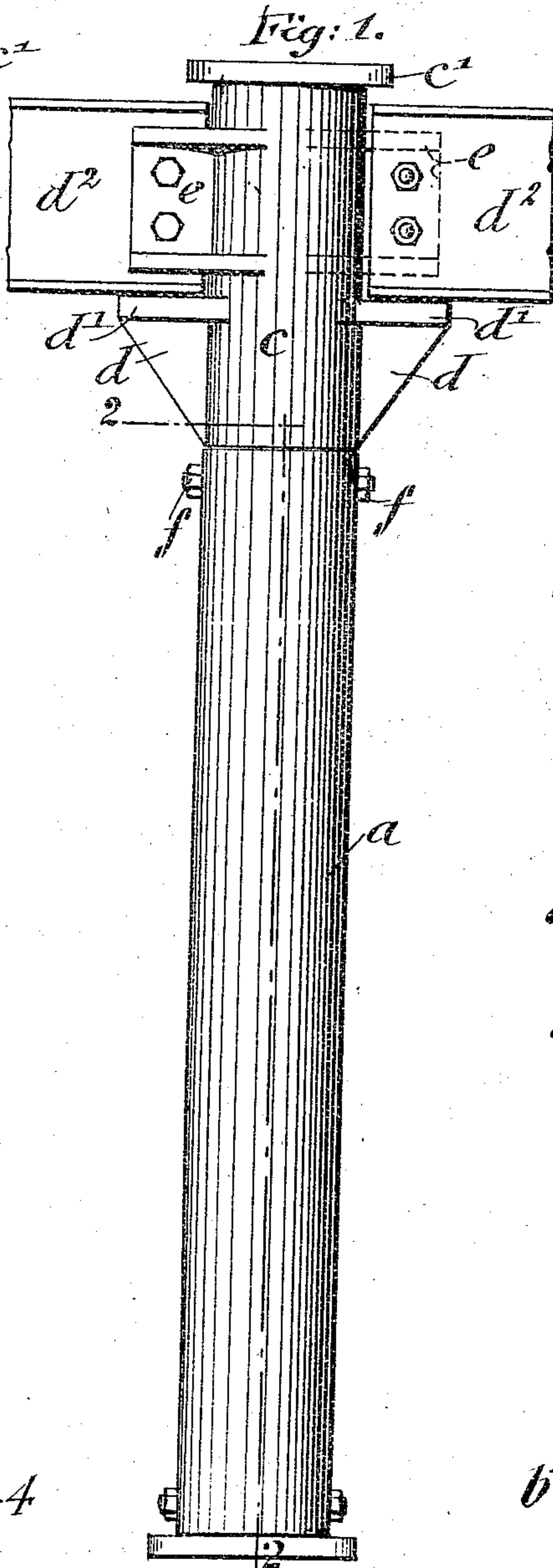
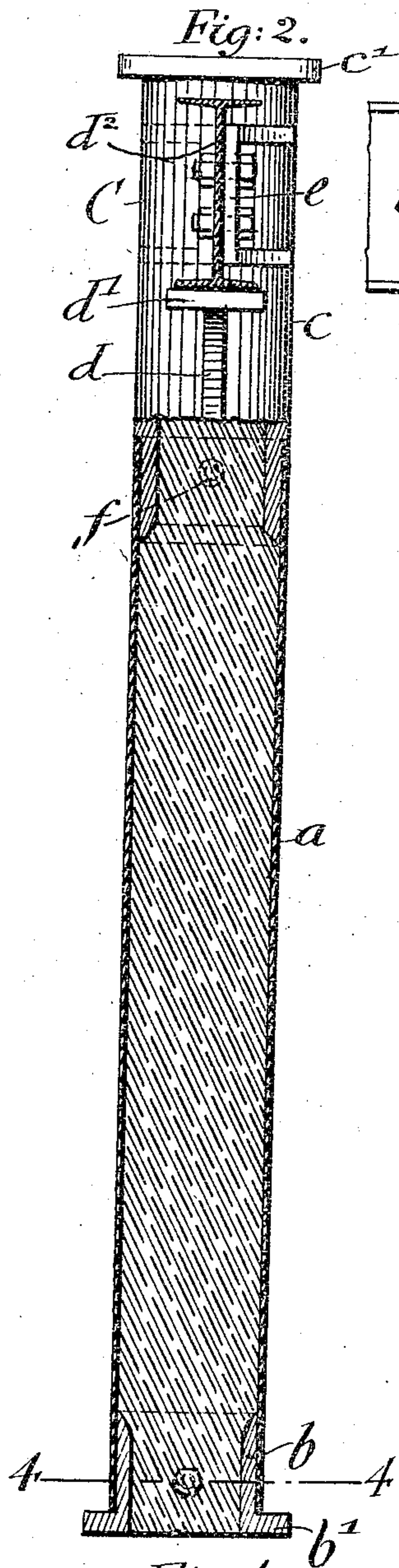


No. 849,819.

PATENTED APR. 9, 1907.

J. J. TRESIDDER.
FIREPROOF COLUMN.
APPLICATION FILED OCT. 31, 1906.



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. 849,819.

Specification of Letters Patent.

Patented April 9, 1907.

Application filed October 31, 1906. Serial No. 341,380.

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, 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 an improved fireproof column which is formed of a combination of metal and concrete and so constructed that a connection with the girders or I-beams above and below can be readily made; and for this purpose the invention consists of a fireproof column which comprises the novel features of construction, which will be fully described hereinafter and finally pointed out in the claim.

In the accompanying drawings, Figure 1 represents a side elevation of my improved fireproof column. Fig. 2 is a vertical transverse section of the same on line 2 2, Fig. 1. Fig. 3 is a top view of Fig. 1. Fig. 4 is a horizontal section on line 4 4, Fig. 2. Fig. 5 is a vertical central section of a modified construction of column, and Fig. 6 is a modified construction of a portion of the column shown in Fig. 5.

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

Referring to the drawings, *a* represents a metallic shell, which is preferably made of sheet-steel of suitable thickness. To the lower end of the shell is attached a socket *b*, provided with an exterior flange *b'*, on which the lower edge of the shell *a* rests. The socket is attached by bolts *b²* to the shell *a*. Into the upper end of the shell is inserted the lower recessed end of a cylindrical cap *c*, which is made of cast-steel or other suitable material and which is provided at diametrically opposite points with brackets *d* and seats *d'* for supporting the girders or I-beams *d²*. These girders are bolted to lugs or brackets *e*, cast integral with the cylindrical cap *c*. The lower end of the cap *c* is provided with a recess for fitting into the upper end of the shell *a*, to which it is bolted by means of bolts *f*. The upper end of the cap *c* is provided with a projecting flange *c'*, to which the flange at the lower end of the next adjacent column above is attached in the same manner as the lower flange is attached to the cap of the column next below. The interior of the shell,

bottom socket, and cap is filled with concrete, which binds the parts of the column together, so as to impart strength and fireproof quality to the same.

When additional strength is required, an interior shell *a²* of smaller diameter than the shell *a* is inserted concentrically with the outer shell, as shown in Fig. 5. The lower end of the interior shell rests on inwardly-projecting flanges *b³* of the bottom socket *b^x*, while the upper end of the said shell abuts against an inwardly-projecting flange *d^x* at the upper end of the cap *c^x*, as shown in Fig. 5.

In place of the inwardly-projecting flange *d^x* a ring-shaped body *d³* may be employed at the bottom of the cap, as shown in Fig. 6, which abuts by its beveled circumference against the correspondingly-beveled end of the socket at the lower end of the cap *c²*, said beveled disk being held in position by a lug *d⁴* on the interior shell *a³*, so as to prevent it from shifting its position. In this case the interior shell *a³* does not extend upwardly through the cap.

The interior of both shells, bottom socket, and cap is filled with concrete in the same manner as shown in Fig. 1, so that all the parts are combined in one strong and substantial structure.

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

A fireproof column consisting of a metal shell, a bottom socket having an outwardly-extending flange upon which said shell is supported and an inwardly-extending flange, a hollow cylindrical cap supported upon the upper edge of said shell and provided at its upper end with an inwardly-extending flange, an interior shell supported at its lower end on the inwardly-extending flange of said bottom socket and extending upwardly through the exterior shell and cap into abutment with the inwardly-extending flange at the upper end of the latter, and a concrete filling for said shells and cap.

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,
JOHN A. E. WARD.