

No. 820,156.

PATENTED MAY 8, 1906.

J. J. TRESIDDER.
FIREPROOF COLUMN.
APPLICATION FILED OCT. 23, 1905.

Fig: 1.

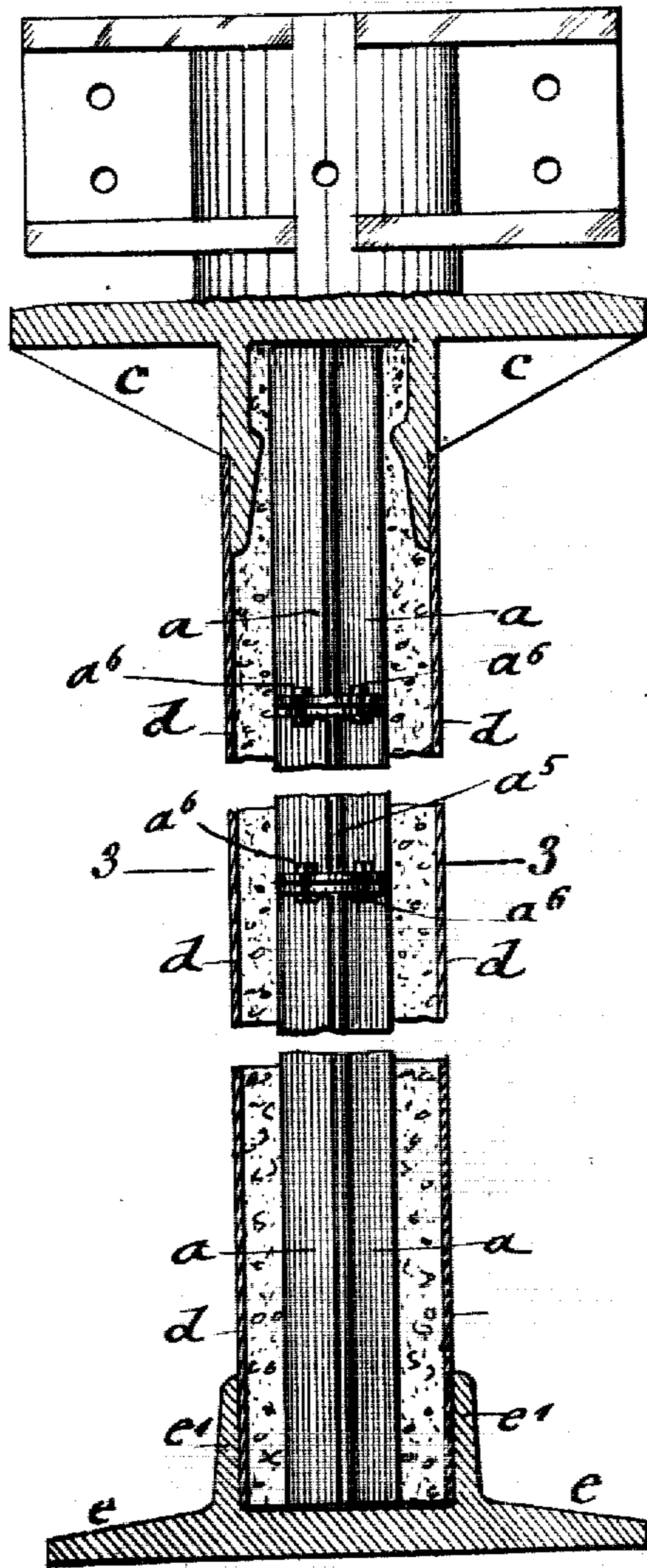
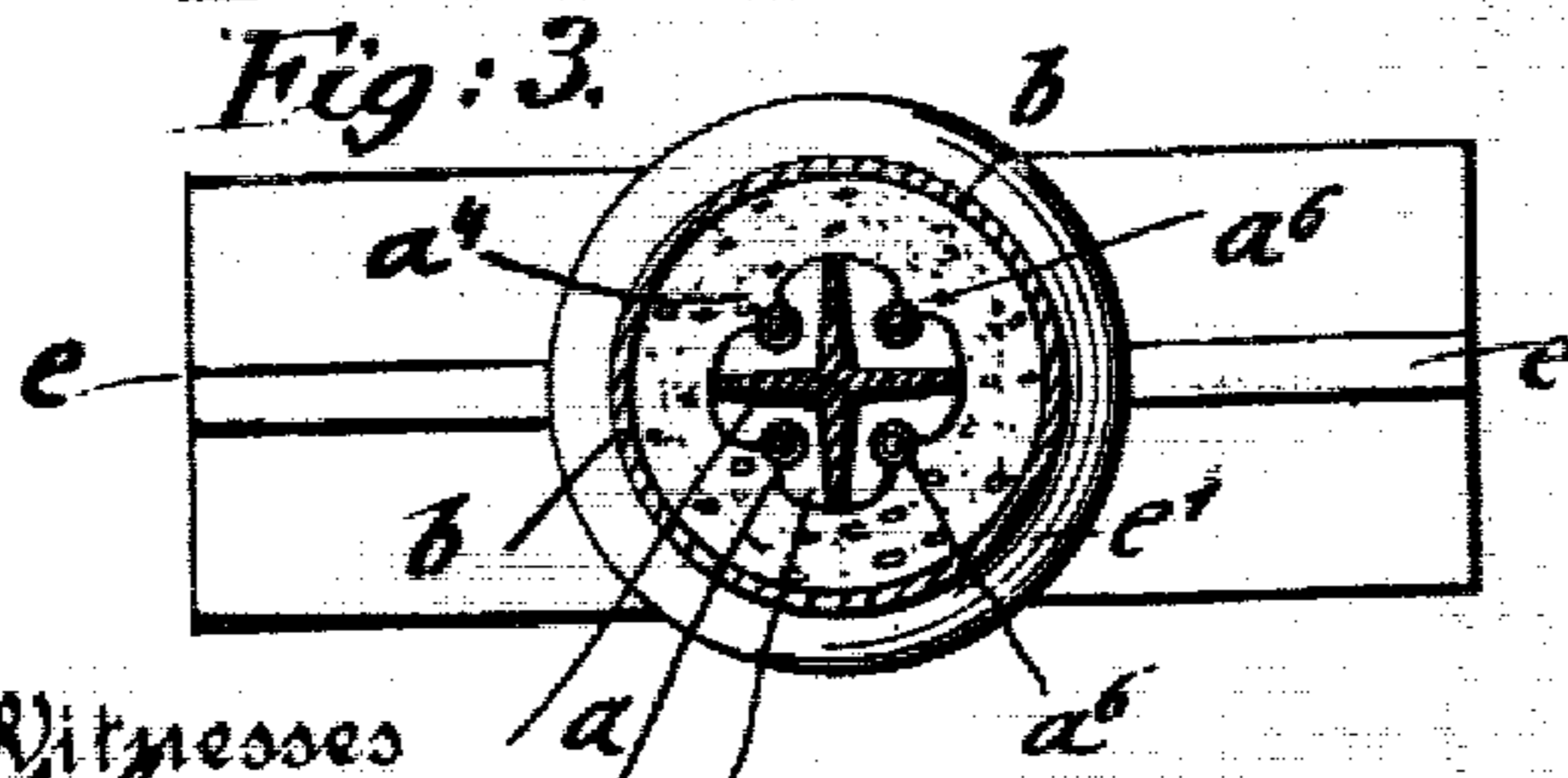


Fig: 3.



Witnesses
H. J. Schubert
Gannett Fish

Fig: 2.

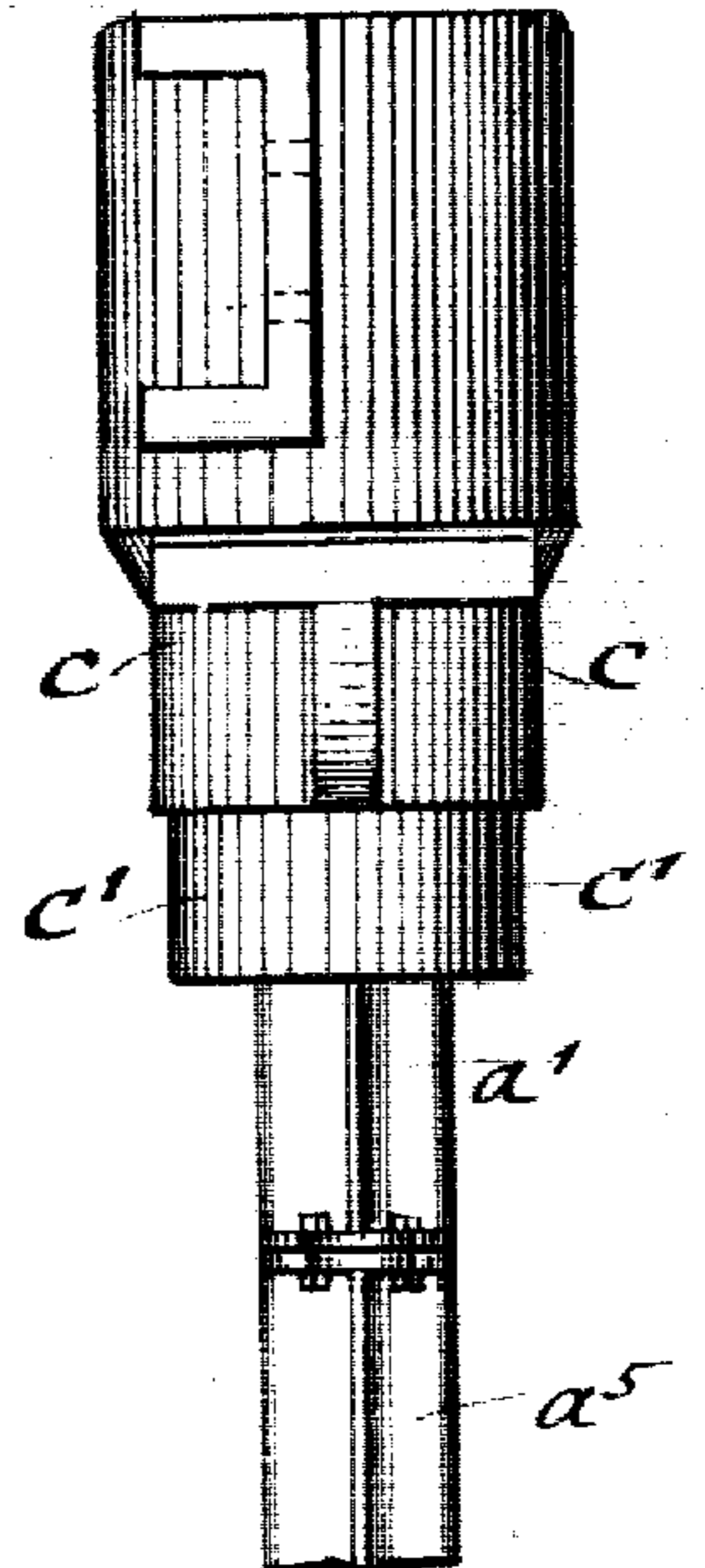


Fig: 4.

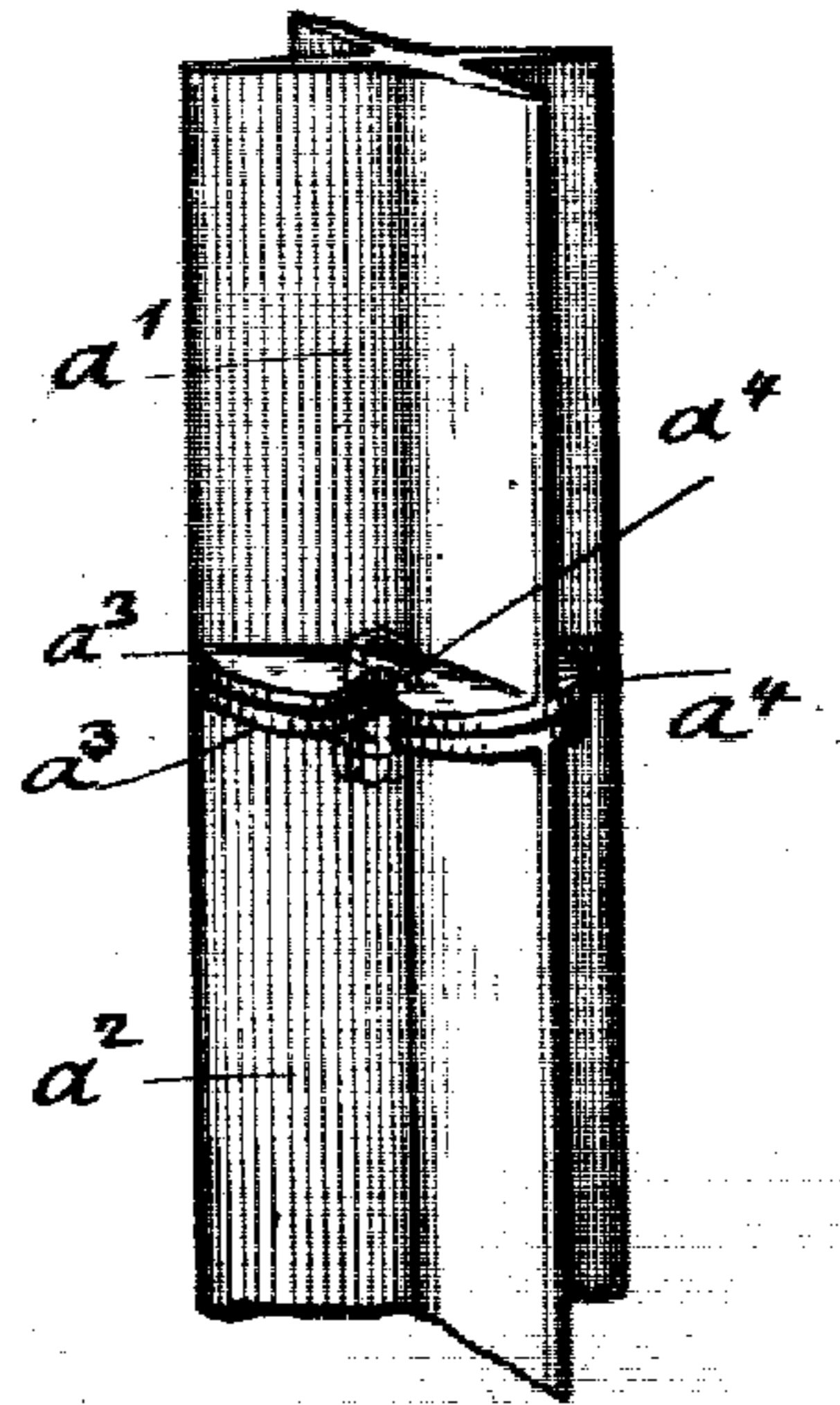


Fig: 5.

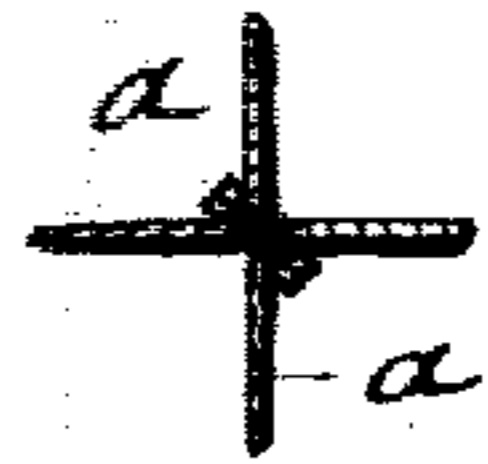


Fig: 6.



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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. 820,156.

Specification of Letters Patent.

Patented May 8, 1906.

Application filed October 23, 1905, Serial No. 283,916.

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 of that class in which metal and a fireproof filling are combined and in which a column of any height, as required by the height between the floors, may be made up from stock without making the same in special lengths; and for this purpose the invention consists of a fireproof column comprising an interior pillar made in the shape of a cross and composed of a plurality of pieces, each provided with webs at one or both ends, which are bolted together so as to obtain any height of column, said interior cross-shaped pillar being surrounded by an exterior jacket or shell, a base for the pillar and shell, a column-cap surmounting the same, and a fireproof filling in the space between the interior pillar and shell.

In the accompanying drawings, Figure 1 represents a vertical central section of my improved fireproof column. Fig. 2 is a side elevation of the same with parts broken off. Fig. 3 is a horizontal section on line 3-3, Fig. 1. Fig. 4 is a detail perspective view of a portion of the interior pillar, and Figs. 5 and 6 are different modified forms of cross-sections of the interior pillar.

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

Referring to the drawings, *a* represents an interior pillar or core, which is made cross-shaped in section, rolled or cast in one integral piece or of two angle-irons abutting at their corners or of four angle-irons placed alongside of each other and riveted together, so as to form a cross-shaped pillar, as shown in Figs. 5 and 6. The interior pillar *a* is made in certain lengths so as to correspond to the height between the floors and then inserted into a column-cap *c*, which is provided

with a socket *c'* for the upper end of the pillar, the space between the socket and pillar being filled up with fireproof filling, such as concrete. The pillar *a* is then surrounded by an exterior shell or jacket *d* and the interior of the pillar and the space between the same and the jacket filled with concrete, so that a combined steel and concrete column is obtained. The lower end of the column is then set into the socket *c'* of a base *e* and connected thereto by a bolt or otherwise.

When the height between the floors is greater or smaller than the usual height of the interior pillar *a*, it may be made of two sections *a'* *a''* of different lengths, which are provided at their adjacent ends with lateral webs *a'''* having recesses *a''''* between the flanges of the cross-shaped pillar, as shown in Fig. 4. The webs are either cast integral with the pieces *a'* *a''* or made of separate angle-pieces and riveted to the ends of the cross-shaped pieces. In case the pieces *a'* and *a''* should not make up the height between the floor a shorter intermediate piece *a'''* of the same cross-section is inserted between the pieces *a'* *a''*, said intermediate or filling piece having webs at both ends, which webs are connected by bolts *a''''* to the adjacent webs of the pieces *a'* *a''*, as shown in Fig. 1. By this arrangement any desired height of column may be obtained. The column-cap *c* is provided with a socket for the next column above and with lugs or flanges for attaching the I-beams that are supported on the beam-seats of the column-cap in the usual manner.

By the construction described a compound column composed of metal and fireproof filling is obtained, which can be made up in any height and which forms a very strong, reliable, and fireproof support for the beams and framework supported thereon.

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

A fireproof column, comprising an interior pillar or core embodying superposed upright sections of cross-shaped cross-section having lateral webs at their meeting ends, bolts for

connecting said adjacent webs, a shell or jacket surrounding said pillar or core, a column-cap to which the upper end of said jacket is attached and which is supported on
5 the upper end of said pillar or core, a base for said pillar and jacket, and a fireproof filling between said pillar and said 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 GOEPFEL,
H. J. SUHRBIER.