(No Model.)

J. J. SCHILLINGER.

BUILDING.

No. 453,510. Patented June 2, 1891.

Fig. 1.

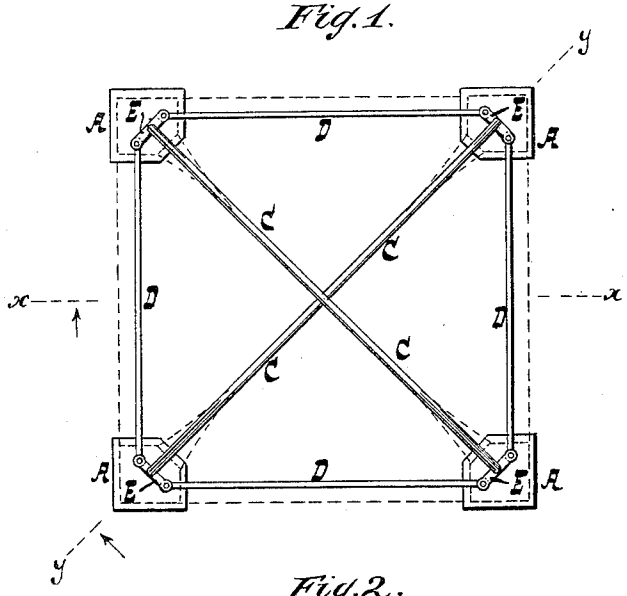


Fig. 2.

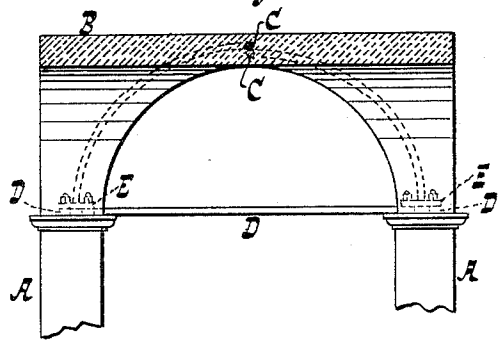
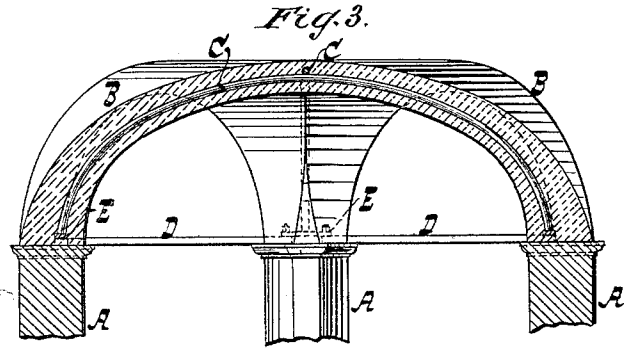


Fig. 3.



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UNITED STATES PATENT OFFICE.

JOHN J. SCHILLINGER, OF NEW YORK, N. Y.

BUILDING.

SPECIFICATION forming part of Letters Patent No. 453,510, dated June 2, 1891.

Application filed September 25, 1890. Serial No. 366,129. (No model.)

To all whom it may concern:

Be it known that I, JOHN J. SCHILLINGER, a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Buildings, of which the following is a specification.

This invention relates to an improvement in buildings; and the invention consists in the details of construction set forth in the following specification and claim, and illustrated in the annexed drawings.

Figure 1 is a plan view of a frame. Fig. 2 is a section along *x x*, Fig. 1. Fig. 3 is a section along *y y*, Fig. 1.

In the drawings, the letters A A indicate pillars or columns carrying a groined arch B. The arch is provided with a frame having diagonally-arranged arched supports or braces C, which cross each other at the center, as shown in Fig. 1, and have their extremities abutting corner-pieces, as hereinafter explained. The frame is shown composed of side pieces D and corner-pieces E. The corner-pieces are arranged at right angles to the diagonal supports C, and said supports are made to abut against the corner-pieces.

Any pressure brought to bear on the groined arch is taken up by the diagonal arched supports C, and as the frame D E prevents the supports C from spreading the arch cannot collapse. I can thus construct arches of considerable span and of very small height, which can be exposed to great pressure without danger of collapsing.

What I claim as new, and desire to secure by Letters Patent, is—

A groined arch provided with a frame having diagonally-arranged arched supports or braces, said frame consisting of side pieces D and corner-pieces E, said corner-pieces being arranged at right angles to the diagonal supports and said supports being made to abut against the corner-pieces, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

JOHN J. SCHILLINGER.

Witnesses:
WM. C. HAUFF,
E. F. KASTENHUBER.