

J. E. CONZELMAN.
CONCRETE CONSTRUCTION.
APPLICATION FILED APR. 29, 1909.

947,769.

Patented Jan. 25, 1910.

3 SHEETS—SHEET 1.

Fig. 1.

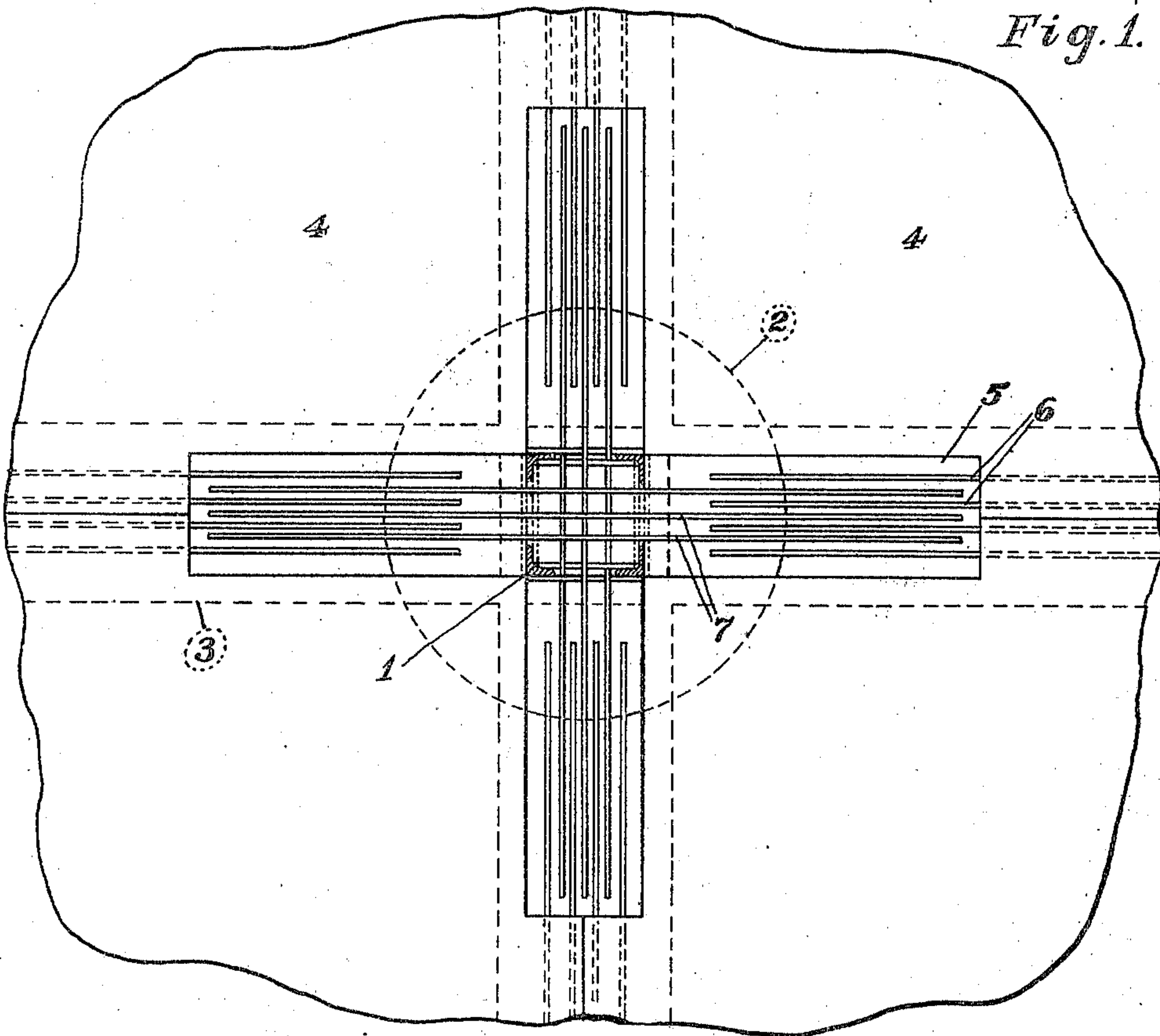
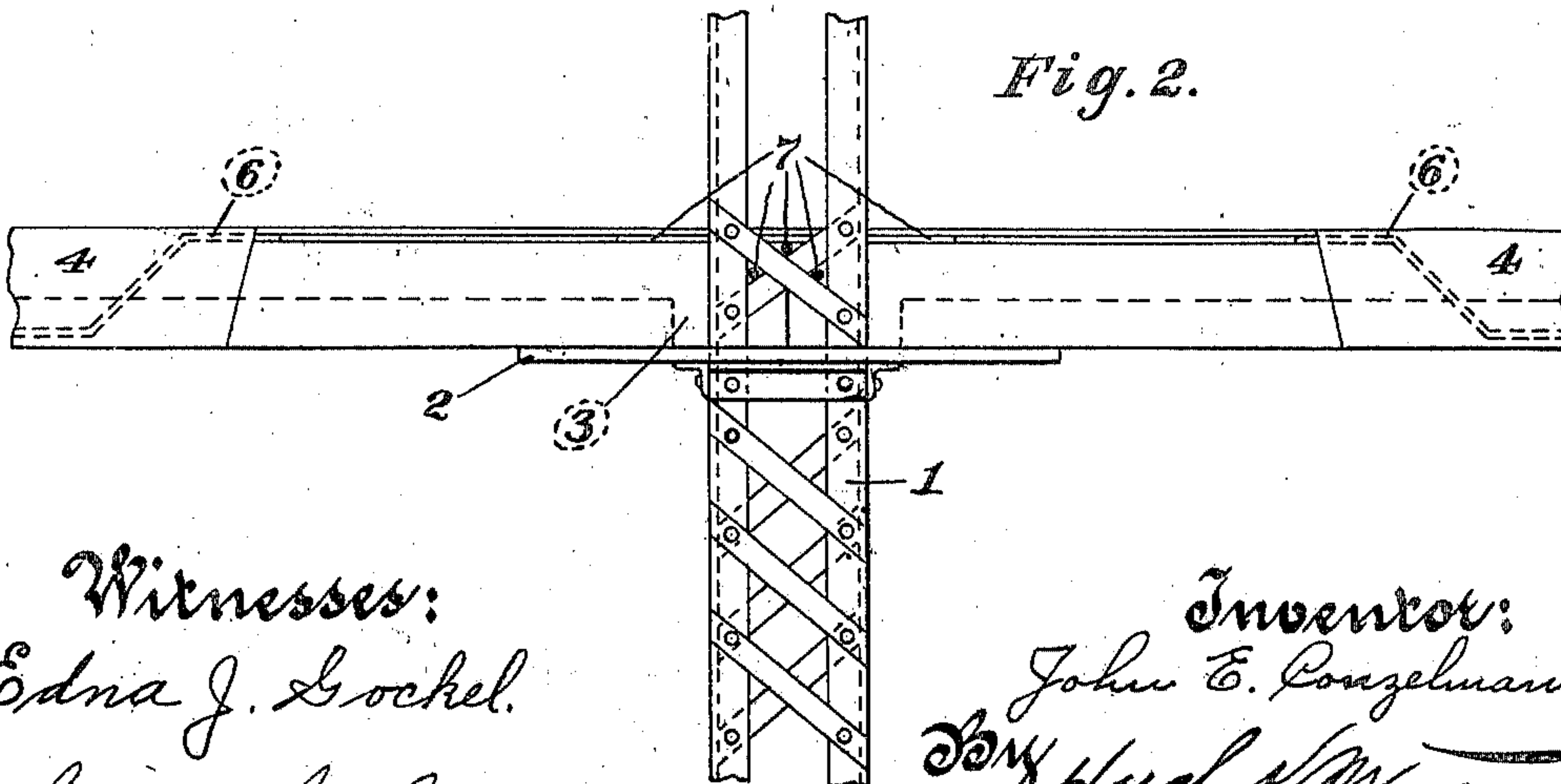


Fig. 2.



Witnesses:
Edna J. Lockel.
George G. Anderson.

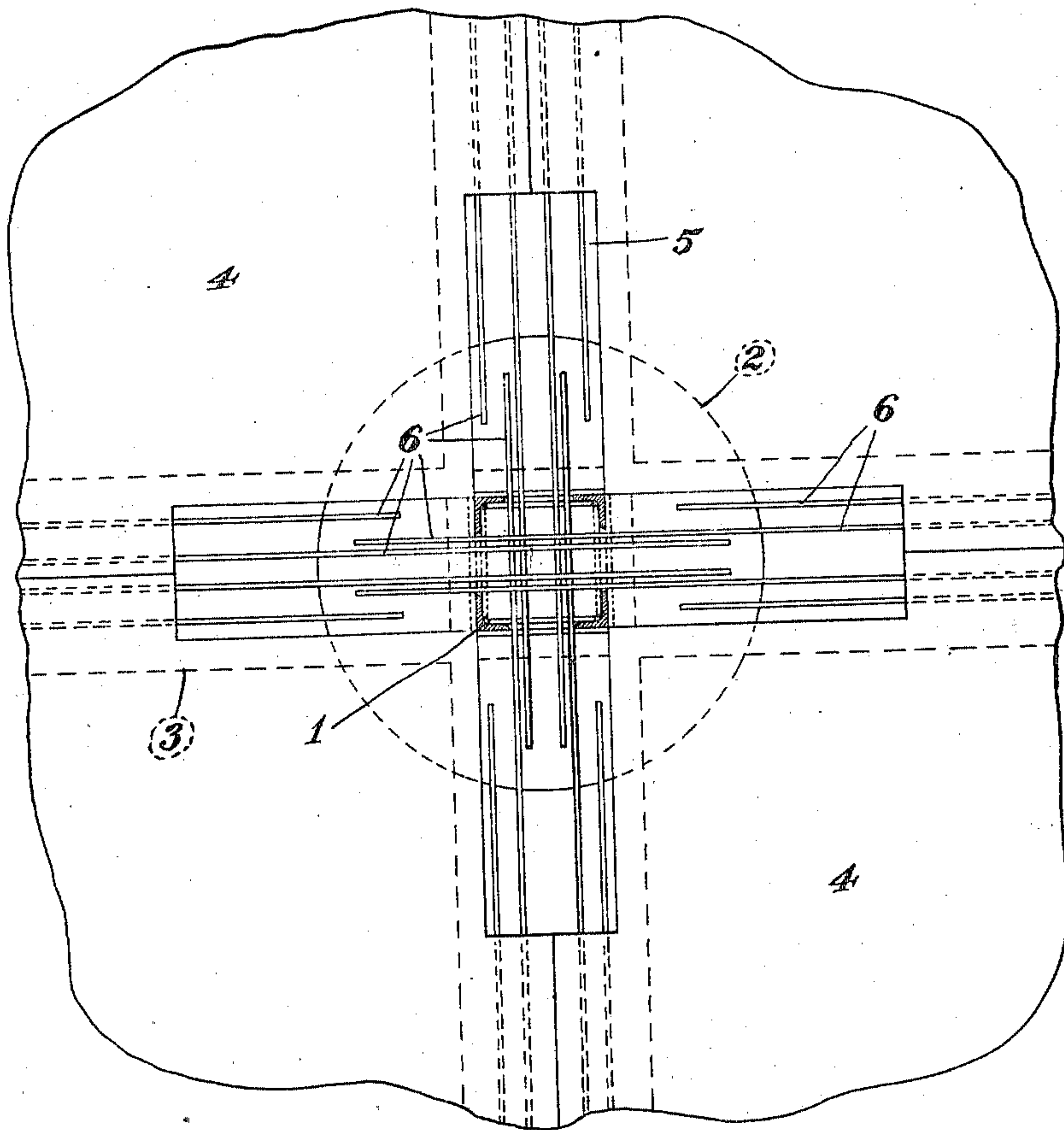
Inventor:
John E. Conzelman,
By Hugh N. Wagner,
His Attorney.

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Fig. 3.



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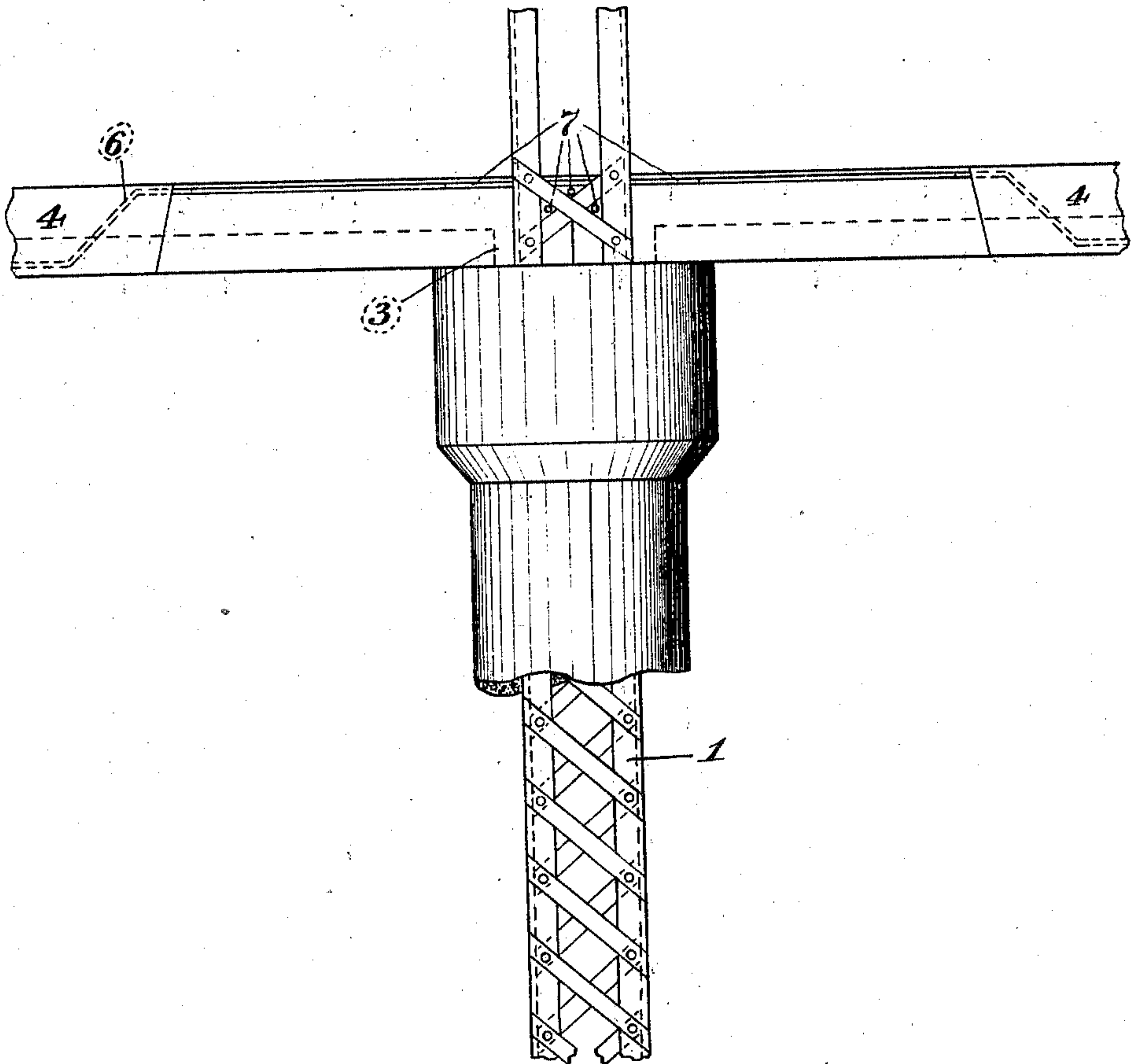
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3 SHEETS—SHEET 3.

Fig. 4.



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UNITED STATES PATENT OFFICE.

JOHN E. CONZELMAN, OF ST. LOUIS, MISSOURI.

CONCRETE CONSTRUCTION.

947,769.

Specification of Letters Patent.

Patented Jan. 25, 1910.

Application filed April 29, 1909. Serial No. 492,864.

To all whom it may concern:

Be it known that I, JOHN E. CONZELMAN, a citizen of the United States, residing at the city of St. Louis, State of Missouri, have
5 invented certain new and useful Improvements in Concrete Construction, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention consists in a modification of the concrete structure that forms the subject-matter of my copending application for patent, Serial No. 471,431, filed January 9, 1909.

15 In the drawings forming part of this specification in which like numbers of reference denote like parts wherever they occur, Figure 1 is a plan view showing slabs supported upon a steel column; Fig. 2 is a side
20 elevation of same; and Figs. 3 and 4 are modifications of the construction shown in Figs. 1 and 2.

The column 1 is surmounted by a plate 2 upon which flanges 3 of concrete slabs 4 rest.
25 Said slabs join each other without an intermediate space for the formation of a concrete beam, but cut-away parts 5 at each corner adjacent a supporting column unite to form a cruciform space partly over plate
30 2 and partly with an open bottom, which must be temporarily closed with a board or former. Reinforcing bars 6 extend into said cruciform space from the slabs 4, and other
35 reinforcing bars 7 are located therein, and plastic concrete is poured into said space, and sets therein, being supported while plastic by said plate 2 and the board or
40 former held under the bottomless part of said space, and unites said slabs surrounding said space, said plate, and column 1 integrally together. Reinforcing bars 6 that
45 enter said space from one side thereof may overlap bars 6 which enter said space from the opposite side, as shown in Fig. 3, and
5 thus dispense with the necessity of bars 7.

In the construction of the modification

shown in Fig. 4, a slight departure is made from that depicted in Figs. 1, 2, and 3 in the respect that plate 2 is omitted in the construction, and the space inside and around
50 the column is filled with concrete.

Having thus described my said invention, what I claim and desire to secure by Letters-Patent is:

1. A concrete construction comprising a
55 plurality of slabs having cut-away portions, said cut-away portions in a plurality of said slabs uniting to form a space, a post, a plate surmounting said post and underlying said space, reinforcing bars projecting from said
60 slabs into said space, and a concrete filler for said space adapted to set integrally with the edges of said slabs surrounding said space.

2. A concrete construction comprising a
65 plurality of slabs having cut-away portions, said cut-away portions in a plurality of said slabs uniting to form a space, a post, a plate surmounting said post and underlying said space, reinforcing bars projecting from said
70 slabs into said space, and a concrete filler for said space adapted to set integrally with the edges of said slabs surrounding said space, there being also reinforcing bars which overlap said first-mentioned bars.

3. A concrete construction comprising a
75 plurality of slabs having cut-away portions, said cut-away portions in a plurality of said slabs uniting to form a space, a post, a concrete column formed around and within said post and underlying said space, reinforcing
80 bars projecting from said slabs into said space and overlapping one another, and a concrete filler for said space adapted to set integrally with the edges of said slabs surrounding said space.
85

In testimony whereof I have affixed my signature in presence of two witnesses.

JOHN E. CONZELMAN.

Witnesses:

GEO. G. ANDERSON,
GLADYS WALTON.