

No. 631,941.

Patented Aug. 29, 1899.

J. W. RAPP.
FLOOR CONSTRUCTION.

(Application filed Apr. 20, 1898.)

(No Model.)

Fig. 1,

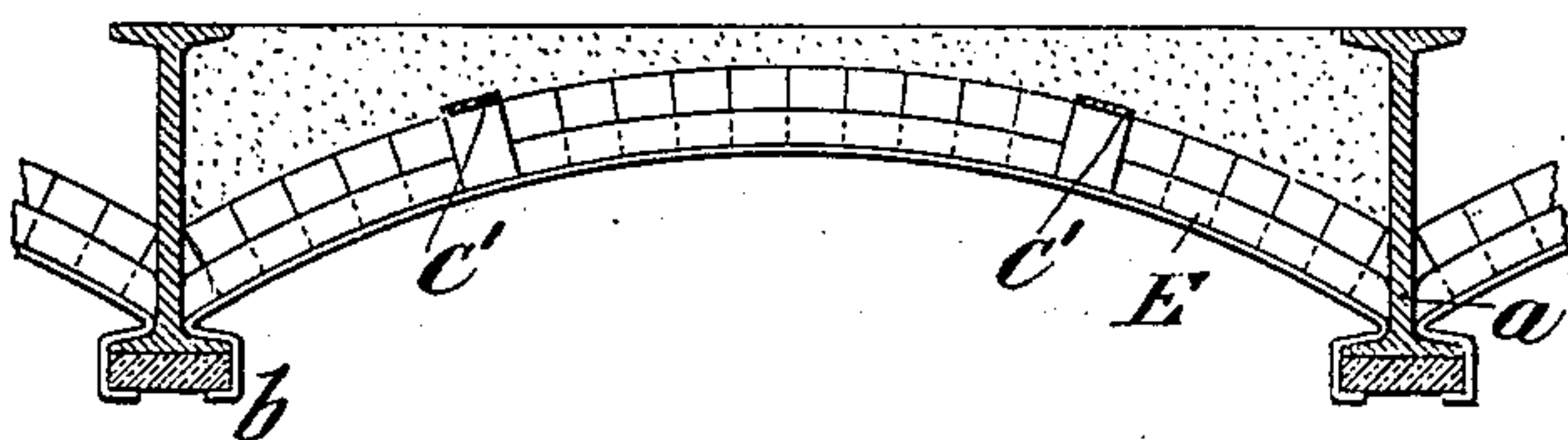


Fig. 2,

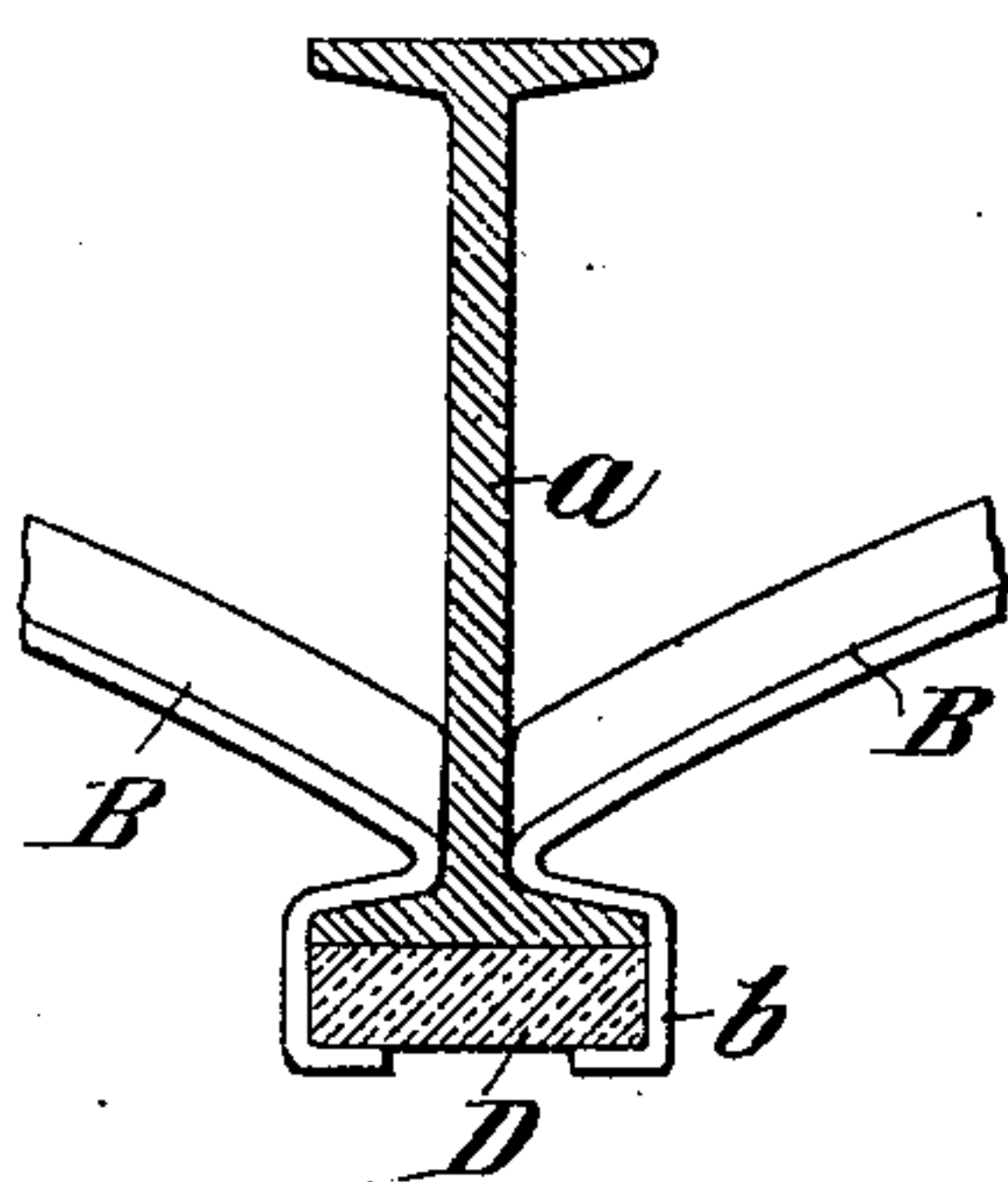
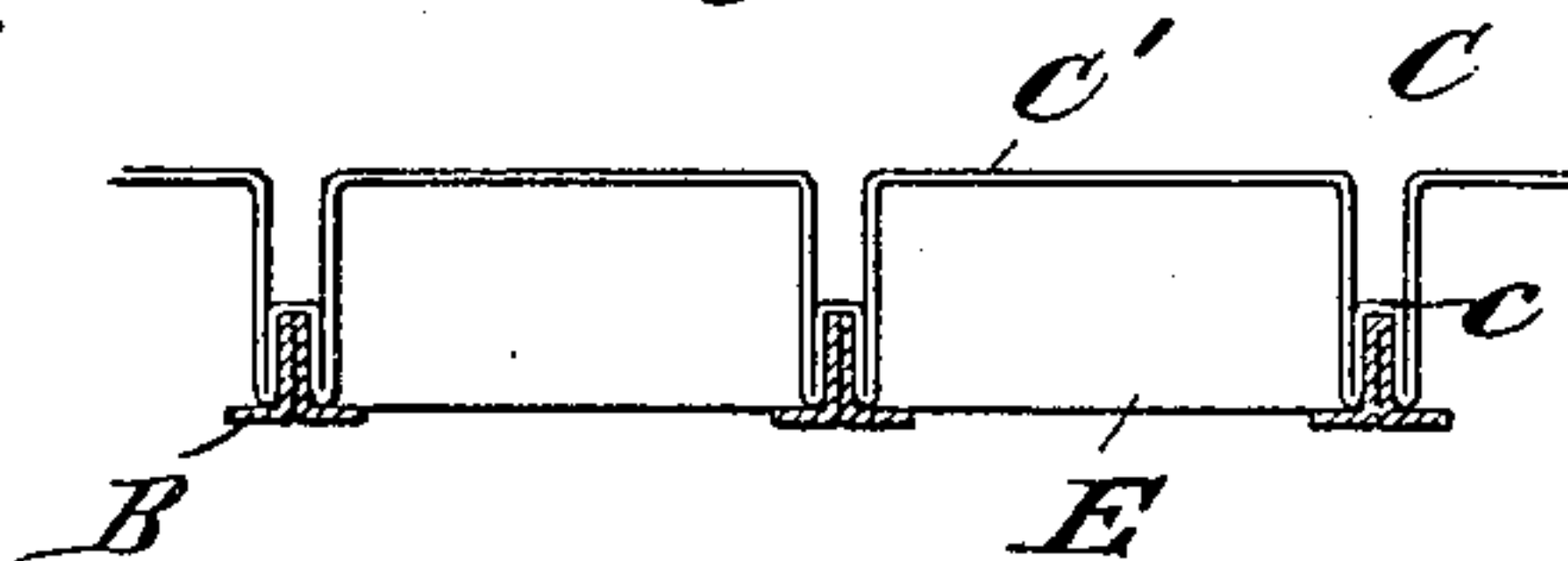


Fig. 3,



WITNESSES:

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FLOOR CONSTRUCTION.

SPECIFICATION forming part of Letters Patent No. 631,941, dated August 29, 1899.

Application filed April 20, 1898. Serial No. 678,226. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. RAPP, a citizen of the United States, residing in the city, county, and State of New York, have invented a certain new and useful Improvement in Floor Construction, of which the following is a specification.

My invention relates to floor construction.

I will describe a construction embodying my invention and then point out the novel features in the claims.

In the drawings, Figure 1 is a sectional view of a portion of a floor construction. Fig. 2 is a detail view drawn to a larger scale than Fig. 1 and showing the clamp formed at the ends of the cross T's, and Fig. 3 is a detail view showing a spacing-strip for the supporting of cross T-bars.

A represents I-beams ordinarily used for supporting floor constructions, which may be supported in any desired manner.

B represents cross T's which directly support the flooring. They are made from sheet metal bent to approximately the form shown in Fig. 3 and curved or arched. They are supported intermediate the I-beams on the lower flanges thereof and are held in position relatively to each other by spacing-strips C. The cross T's may be provided at their ends with the integral clamp portions *b*, which are preferably bifurcated to permit of their being easily bent. They are of a sufficient length to be bent around the flange of the I-beam and around one end of a plaster or other fireproof block D, which is ordinarily used to fireproof the I-beams.

The spacing-strip C, which may be of sheet metal, is bent to form the small pockets or recesses *c*, into which the webs of the cross T's project, and the large pockets or recesses

c', which receive the adjacent blocks of the floor-filling.

In constructing a floor the arched cross T's are supported by their ends on the lower flanges of the I-beams, and the spacing-strips are applied to hold them in position relatively to each other. Bricks E or other fireproof blocks are placed on the flanges of the cross T's and concrete F or other similar material placed on the bricks to fill up the space between the beams, as shown in Fig. 1. The under side of the arch may be finished in any desired manner.

What I claim as my invention is—

1. A floor construction comprising suitable supports, cross T's supported at their ends on said supports, and an integral clamp at each end of said cross T's for holding a fireproof or other block to the supports, and a fireproof or other filling supported by said cross T's, substantially as specified.

2. A floor construction comprising supporting-beams, cross T's intermediate said beams for supporting the floor-filling, and spacing-strips for holding the said cross T's in position relatively to each other, said spacing-strips being formed with small pockets or recesses adapted to receive the webs of the cross T's, and with larger pockets or recesses intermediate the smaller pockets or recesses for receiving the adjacent blocks of the filling material, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN W. RAPP.

Witnesses:

W. LAIRD GOLDSBOROUGH,
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