

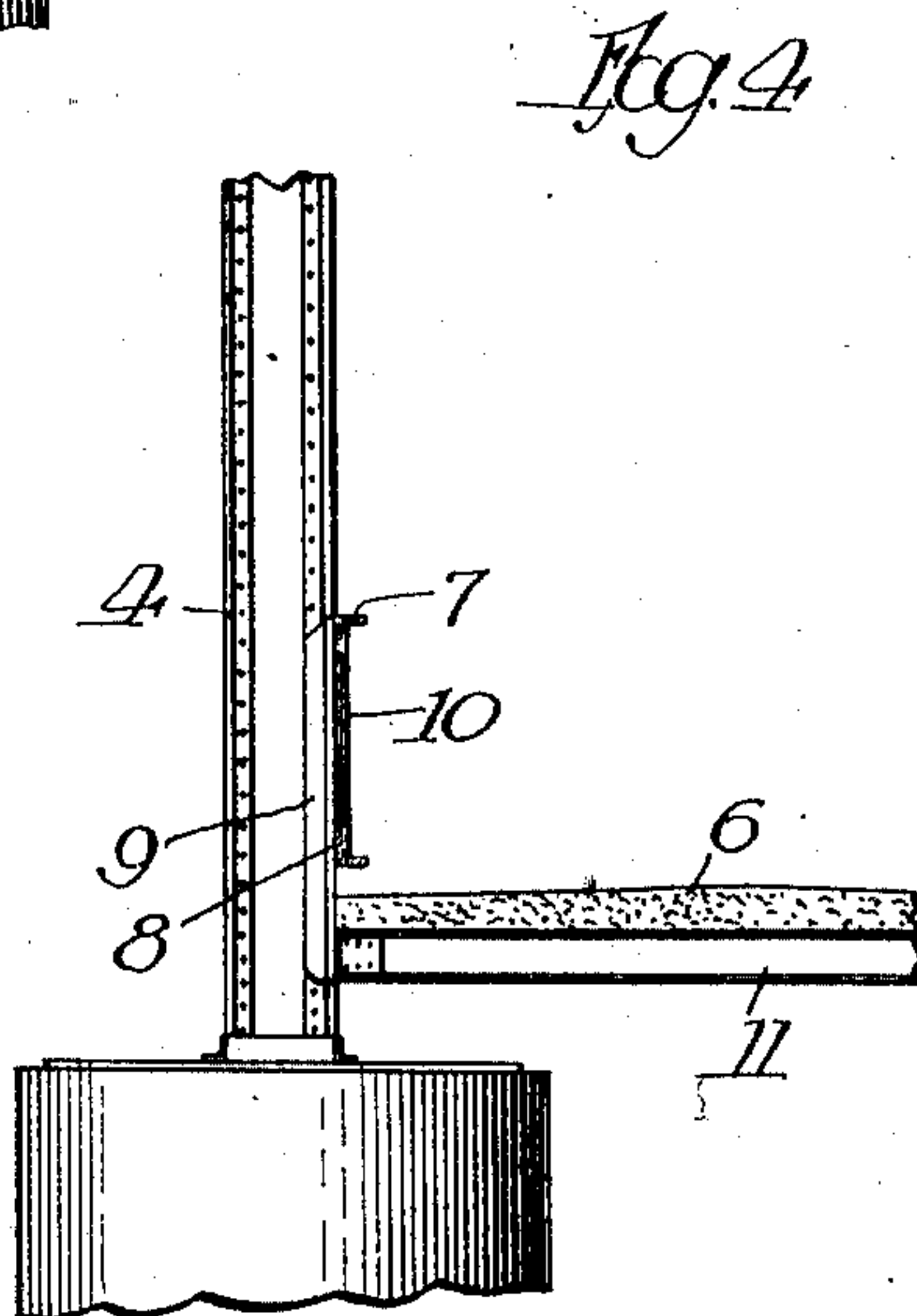
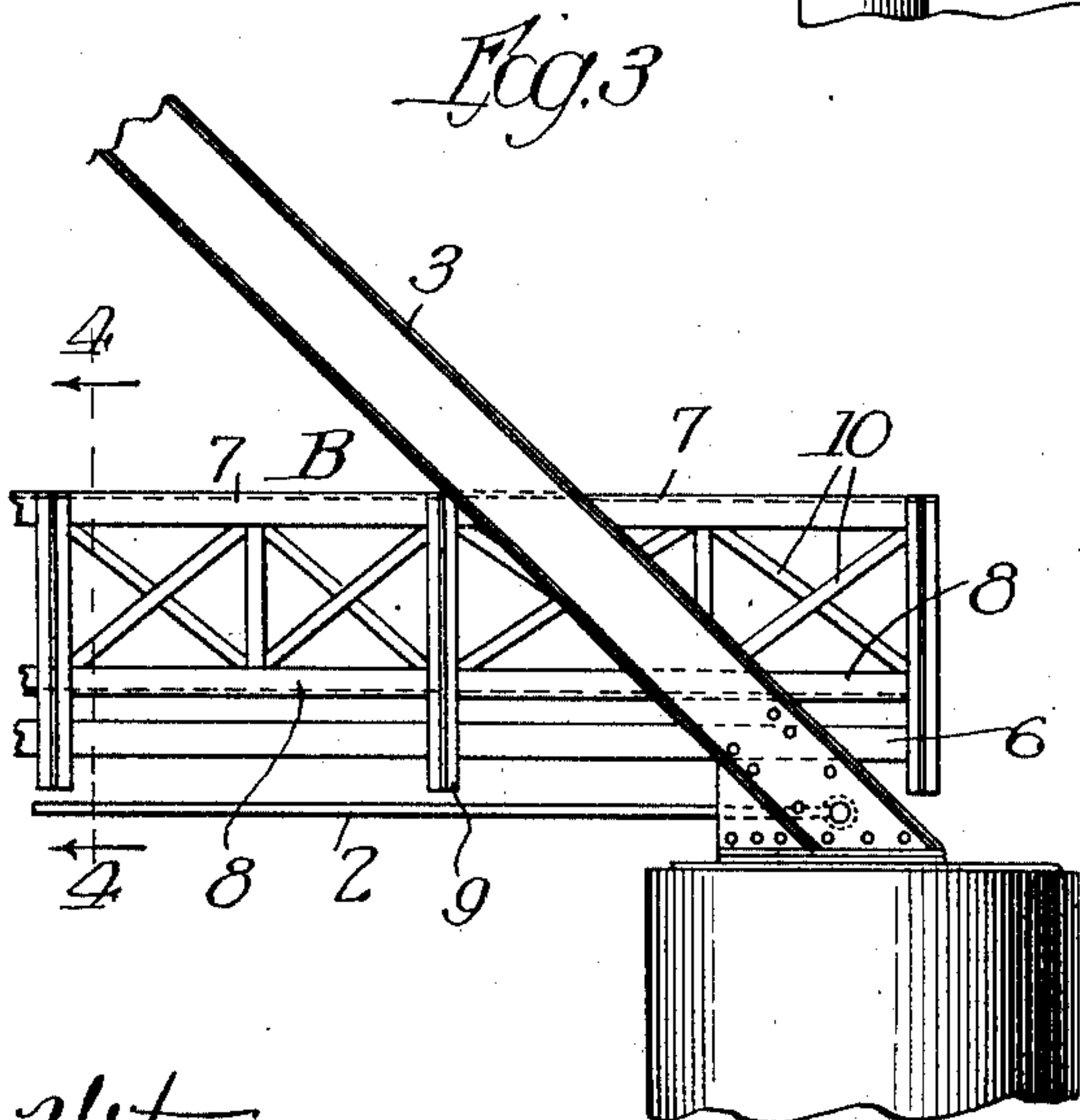
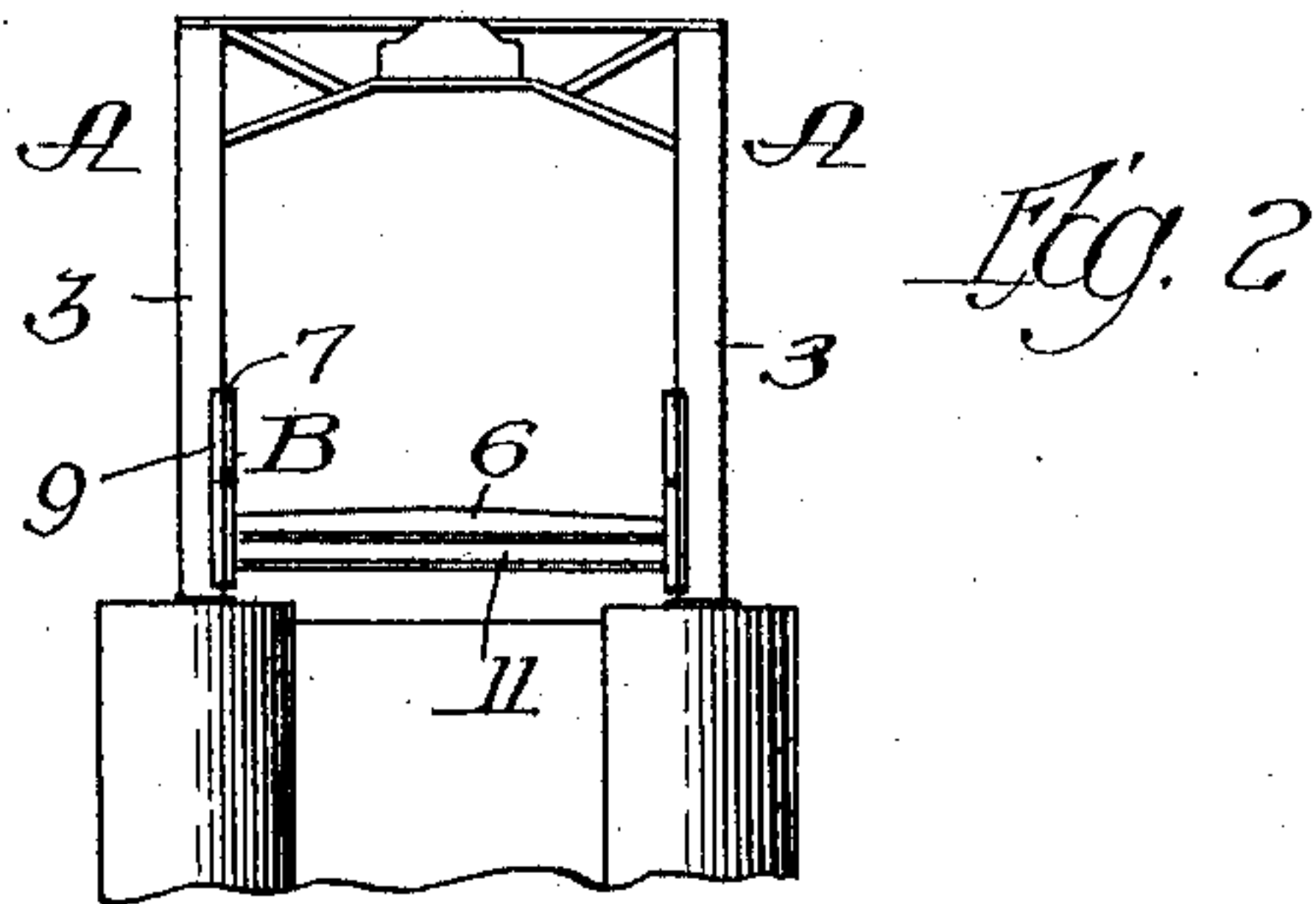
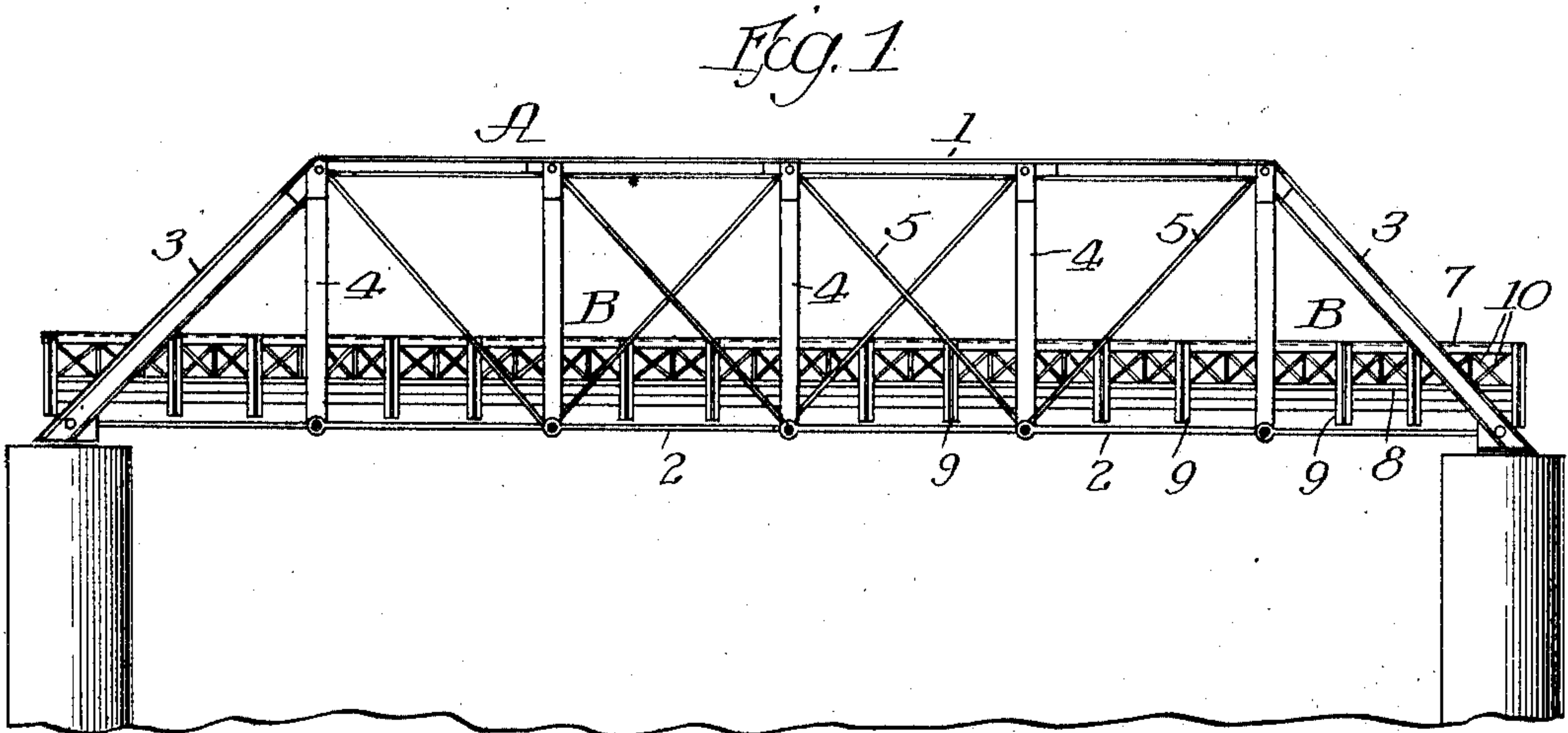
W. H. JONES.

BRIDGE.

APPLICATION FILED APR. 24, 1911.

998,523.

Patented July 18, 1911.



Witnesses:
Harold Barrett.
Geo. C. Johnson.

Inventor:
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by W. J. Waldo, Atty.

UNITED STATES PATENT OFFICE.

WILLIAM H. JONES, OF LEAVENWORTH, KANSAS, ASSIGNOR TO THE MISSOURI VALLEY
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BRIDGE.

998,523.

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To all whom it may concern:

Be it known that I, WILLIAM H. JONES, a citizen of the United States, and a resident of Leavenworth, in the county of Leavenworth and State of Kansas, have invented certain new and useful Improvements in Bridges, of which the following is a specification.

This invention relates to bridges, and relates particularly to means for supporting the floors or roadways thereof.

The object of the invention is to provide a bridge span, the floor or roadway of which is supported directly by secondary trusses secured to the main trusses of the bridge span and which preferably form guard or hand rails therefor.

To this end a bridge of my invention comprises the various features and details of construction hereinafter described and claimed.

In the accompanying drawing, in which a bridge of my invention is fully illustrated,—Figure 1 is a side elevation of a bridge span embodying my improved means for supporting the floor or roadway thereof. Fig. 2 is an end view of said bridge span. Fig. 3 is a fragmentary side view thereof, on an enlarged scale; and Fig. 4 is a fragmentary sectional view thereof, on the line 4—4 of Fig. 3.

In the accompanying drawing I have shown my invention as embodied in a bridge span formed by suitable spaced trusses designated as a whole by A, which, as shown, are of the familiar type comprising top chords 1, bottom chords 2, end posts 3, intermediate posts 4 and diagonals 5.

The floor or roadway 6 of the bridge span, which may be made of concrete or other suitable material, is supported upon the trusses A of the bridge span in the following manner:—Secured to the end posts 3 and the intermediate posts 4 of the trusses A, are secondary trusses, designated as a whole by B, which comprise top and bottom longitudinal members 7 and 8 secured directly to the end posts 3 and to the intermediate posts 4 of the main truss of the bridge span, and which are rigidly connected by upright and diagonal members 9 and 10. Secured to said secondary trusses B are transverse beams 11 on which the floor or roadway 6 of the bridge span is directly supported.

In the preferable construction shown, the secondary trusses B form guard or hand rails at the sides of the bridge span and the floor beams 11 are secured directly to the lower ends of the upright members 9 of said secondary trusses, which extend below said trusses proper.

The particular forms of the main bridge trusses A and of the secondary trusses B forming the guard or hand rails therefor are illustrative only, and I do not therefore desire to limit myself to the particular forms of trusses shown, as my invention contemplates the use of any desired or approved form of trusses for the purposes shown.

I claim:—

1. A bridge span comprising spaced main trusses, a floor for said bridge span and means for supporting said floor, said supporting means comprising secondary trusses secured directly to the main trusses, and transverse beams connected to said secondary trusses, substantially as described.

2. A bridge span comprising spaced main trusses, a floor for said bridge span and means for supporting said floor, said supporting means comprising secondary trusses secured directly to the main trusses of said bridge span and comprising members which extend below said secondary trusses, and transverse beams secured to the depending ends of said members, substantially as described.

3. A bridge span comprising spaced trusses, a floor for said bridge span, and means for supporting said floor, said means comprising secondary trusses secured directly to the main trusses of said bridge span and which form guard rails therefor, the trusses forming said guard rails comprising members which extend below said trusses, and transverse beams connected to the depending ends of said members, substantially as described.

In testimony, that I claim the foregoing as my invention, I affix my signature in presence of two subscribing witnesses, this 17th day of April, A. D. 1911.

WILLIAM H. JONES.

Witnesses:

L. GAUTIER,
H. C. BEEK.