E. E. BROSIUS.

TRAVELING CRANE.

APPLICATION FILED FEB. 21, 1908.

932,439.

Patented Aug. 31, 1909.

2 SHEETS—SHEET 1.

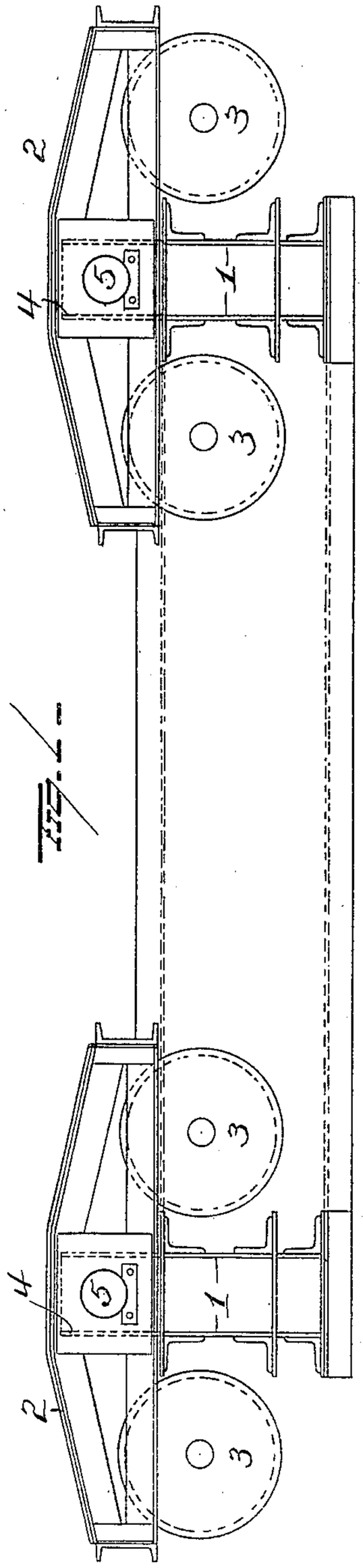

FIG. 1.

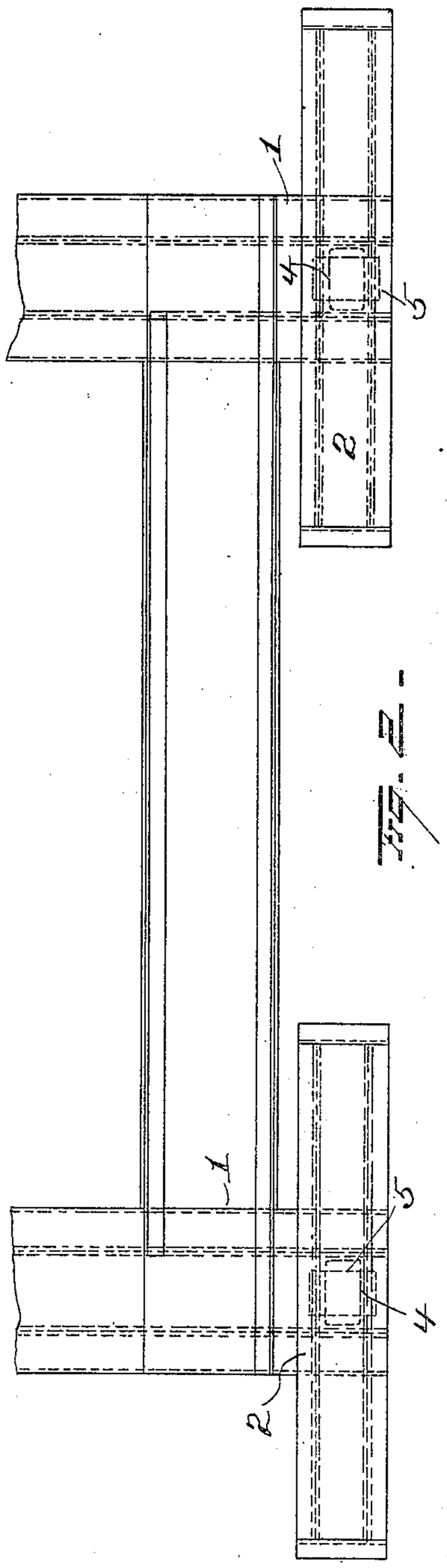

FIG. 2.

WITNESSES

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Fig. 3.

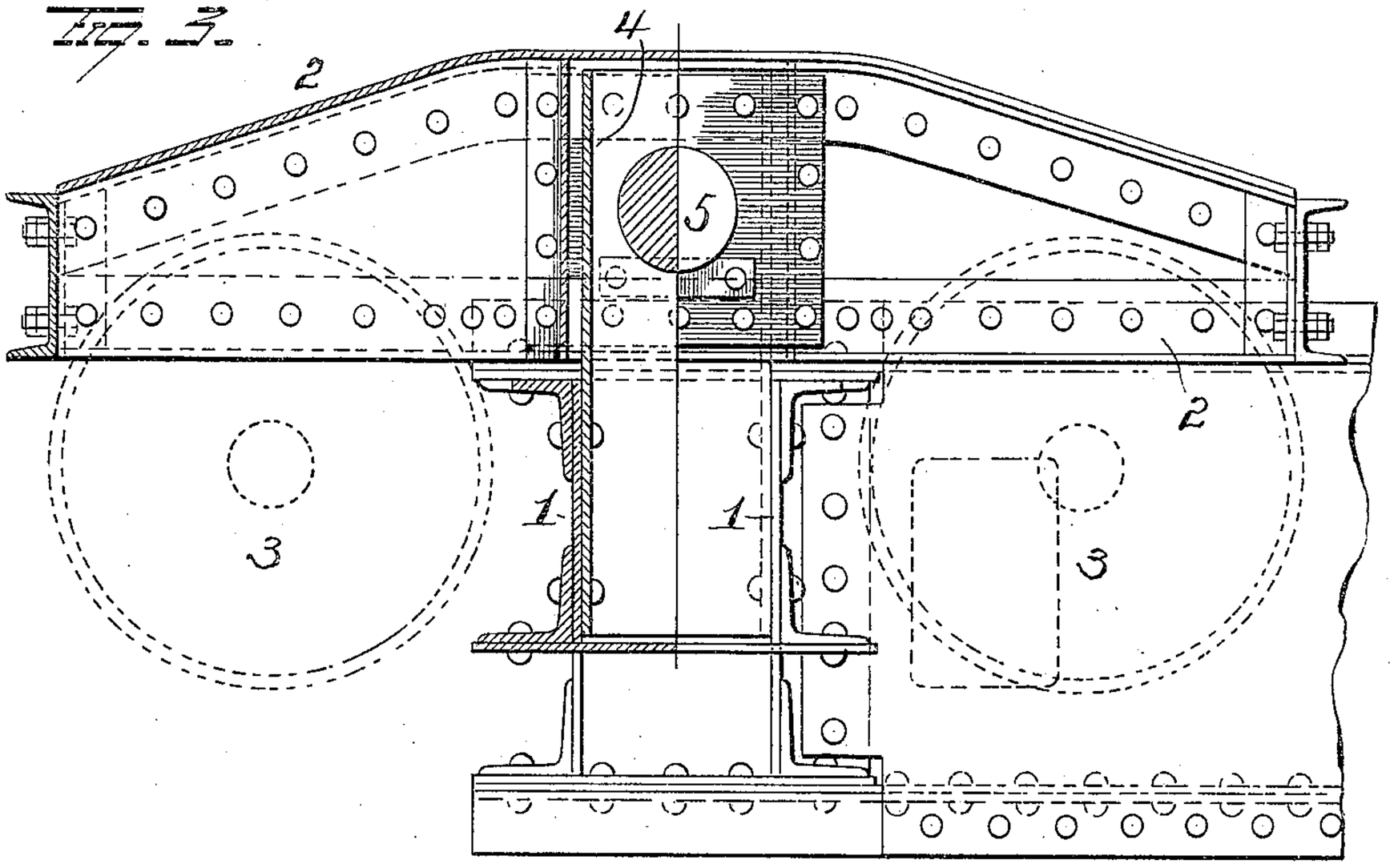
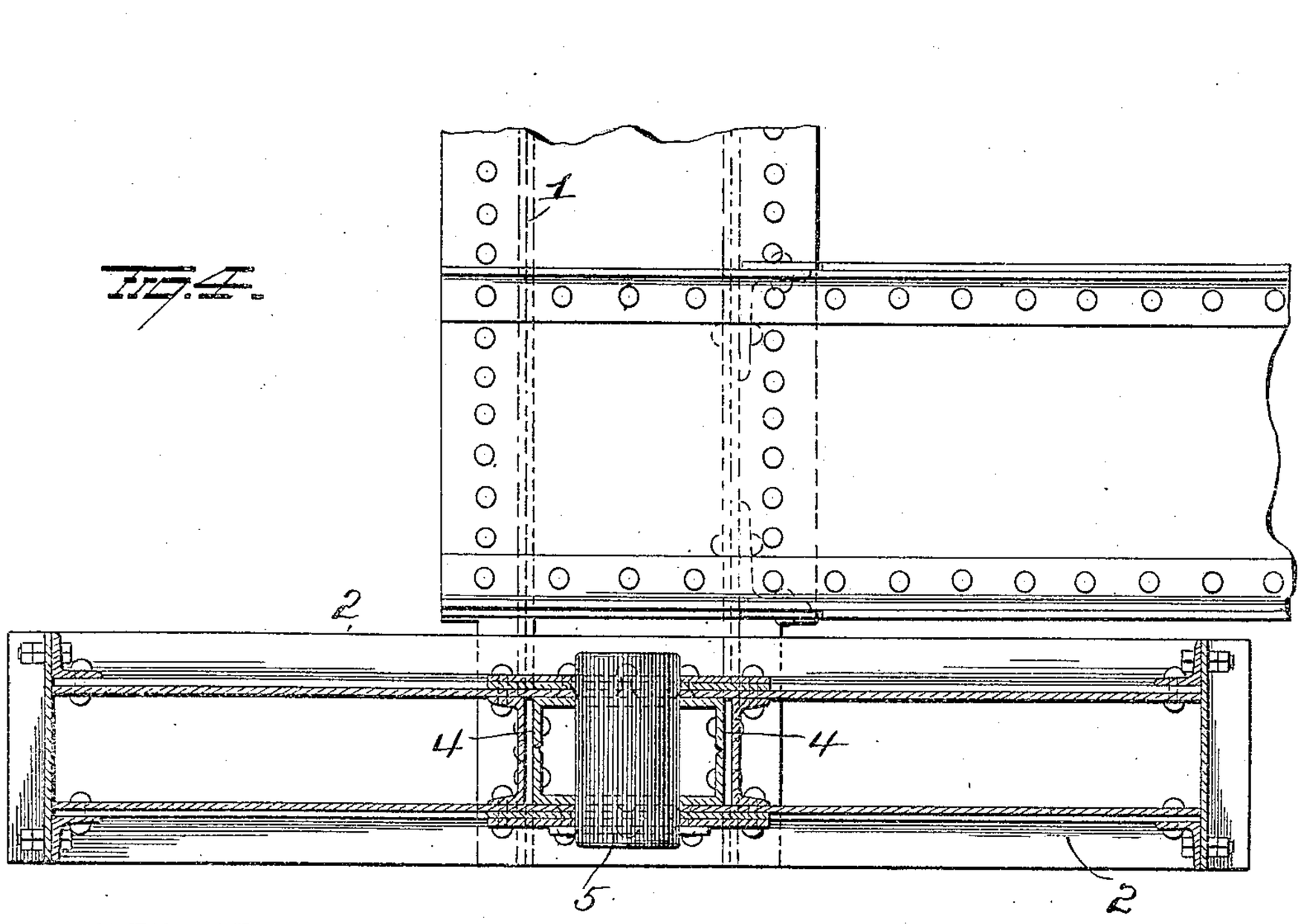


Fig. 4.



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UNITED STATES PATENT OFFICE.

EDGAR E. BROSIUS, OF ALLIANCE, OHIO, ASSIGNOR TO THE MORGAN ENGINEERING COMPANY, OF ALLIANCE, OHIO.

TRAVELING CRANE.

932,439. Specification of Letters Patent. **Patented Aug. 31, 1909.**

Application filed February 21, 1908. Serial No. 417,172.

To all whom it may concern:

Be it known that I, EDGAR E. BROSIUS, of Alliance, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Traveling Cranes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in traveling cranes, the object being to provide a construction by means of which the girders may be supported and carried by the end trucks in such manner as will reduce to its minimum the vertical space occupied by the crane bridge.

With this object in view my invention consists in the construction and combinations of parts hereinafter described and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in end elevation, Fig. 2 is a plan view of one end of the bridge and supporting trucks of a traveling crane. Fig. 3 is a view partly in elevation and partly in section of a section of the bridge and one supporting truck and Fig. 4 is a view in plan showing a portion of the bridge in elevation and one truck in horizontal section.

Heretofore it has been customary to support the bridge girders of a traveling crane upon the tops of end trucks, but in some cases much difficulty is experienced in adopting this construction owing to the limited head-room that is provided for the operation of the crane. To obviate this difficulty my improvement consists in suspending the girders from the supporting trucks and pivoting the trucks above the point of suspension.

1, 1, represent the girders of a traveling crane connected at their ends in the usual manner. Each of these girders is attached to and suspended from a truck 2 provided with supporting wheels 3, 3. The trucks are pivoted to two channel irons 4 riveted to the bridge girders 11 and extending above the latter by the trunnions or pivot pins 5, so as to have a free rocking movement relative to such girders. By this construction the girders, instead of being located above the trucks as is usual, are suspended from and below the same thereby materially decreasing the height of the bridge above the track-rails and hence enabling the crane bridge to be operated in places where a very limited head-room is obtainable.

I do not restrict myself to the particular construction and arrangement of parts shown and described as my invention consists broadly in suspending the girders of a traveling crane from the swiveled supporting end trucks.

Having fully described my invention what I claim as new and desire to secure by Letters-Patent, is,—

1. The combination with a bridge consisting of girders connected at their ends, of two trucks at each end of the bridge, each truck being mounted on a plurality of wheels and pivotally connected to the bridge in a plane above the bottoms of the girders.

2. The combination with a bridge consisting of girders connected at their ends, of two trucks at each end of the bridge, each truck being mounted on a plurality of wheels and pivotally connected to upward extension from the bridge girders.

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

EDGAR E. BROSIUS.

Witnesses:

CLARENCE TAYLOR,

D. W. PELL.