

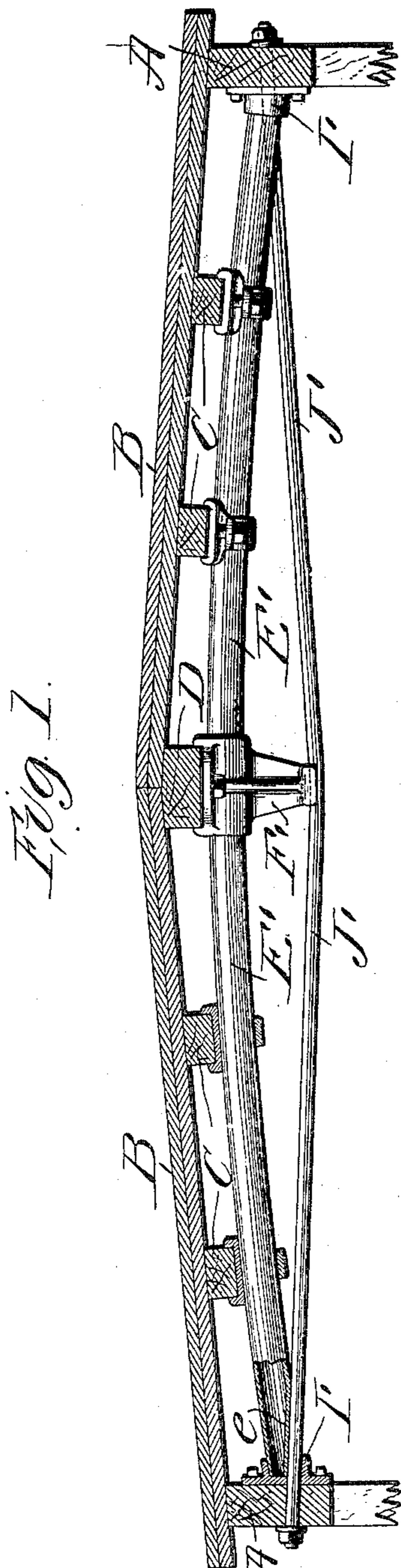
No. 659,961.

Patented Oct. 16, 1900.

H. W. GAYS.
CARLINE.

(Application filed Feb. 27, 1899.)

(No Model.)



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UNITED STATES PATENT OFFICE.

HENRY W. GAYS, OF ST. LOUIS, MISSOURI.

CARLINE.

SPECIFICATION forming part of Letters Patent No. 659,961, dated October 16, 1900.

Application filed February 27, 1899. Serial No. 707,083. (No model.)

To all whom it may concern:

Be it known that I, HENRY W. GAYS, a citizen of the United States, residing at the city of St. Louis, State of Missouri, have invented a certain new and useful Improvement in Carlines, of which the following is a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a cross-sectional view through a car-roof, showing my improved carline in position thereon; and Fig. 2 is an end view of said carline.

This invention relates to new and useful improvements in carlines especially designed for use in freight-car construction, the object being to provide a tubular carline with appropriate parts whereby said carline may be secured firmly in position to tie the side plates together and afford seats for the purlins and ridge-pole.

The essential features of my invention reside in the combination of the tubular carline having longitudinal superficial recesses bent therein, its castings forming hangers therefor, whereby said carline is supported by the side plates; in providing seats on said tubular carline for the reception of the purlins and ridge-pole; in providing a tie-rod for tying the side plates together and strengthening the carline, which tie-rod may also be used as a truss-rod and is seated at or near its ends in the superficial recesses of the tubular carline, and, finally, the invention consists in the construction, arrangement, and

combination of the several parts, all as will be hereinafter described, and afterward pointed out in the claim.

In the drawings, A indicates a side plate of the car, B the roof, C the purlins, and D the ridge-pole, all of which parts being of well-known construction. As shown, my invention consists in a tubular carline in which said carline proper (marked E' in the drawings) is made in one piece, the ends thereof being creased on their under side, as shown at e. The ends of the tie-rod are seated in the crease e, so that said tie-rod can pass the castings or hangers I' through the side plate, and being arranged externally the carline it engages a strut F' on the central casting, which affords a seat for the ridge-pole. The tie-rod J' acts as a tension member and a truss for the carline proper, which is the compression member.

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

The combination with a tubular compression member, of castings arranged at its ends, and against which the same abuts, said tubular compression member having a superficial longitudinal recess bent therein open at both ends, a truss-rod passing through said castings and seated in said recessed ends of the compression member, and a strut.

In testimony whereof I hereunto affix my signature, in the presence of two witnesses, this 16th day of February, 1899.

HENRY W. GAYS.

Witnesses:

F. R. CORNWALL,
WM. H. SCOTT.