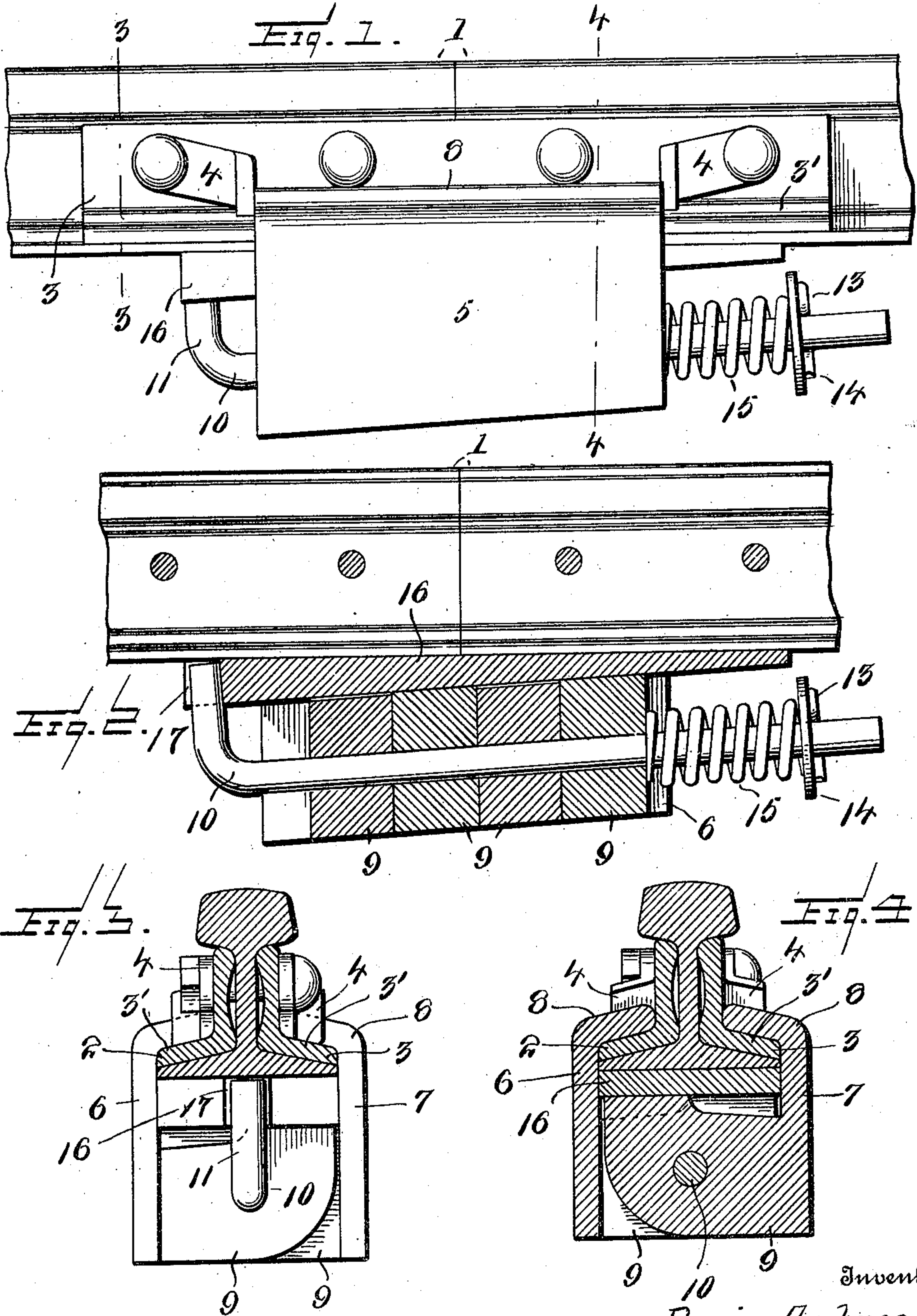


D. AMBROSE.
 SPLICE ATTACHMENT.
 APPLICATION FILED APR. 29, 1910.

975,199.

Patented Nov. 8, 1910.

2 SHEETS-SHEET 1.



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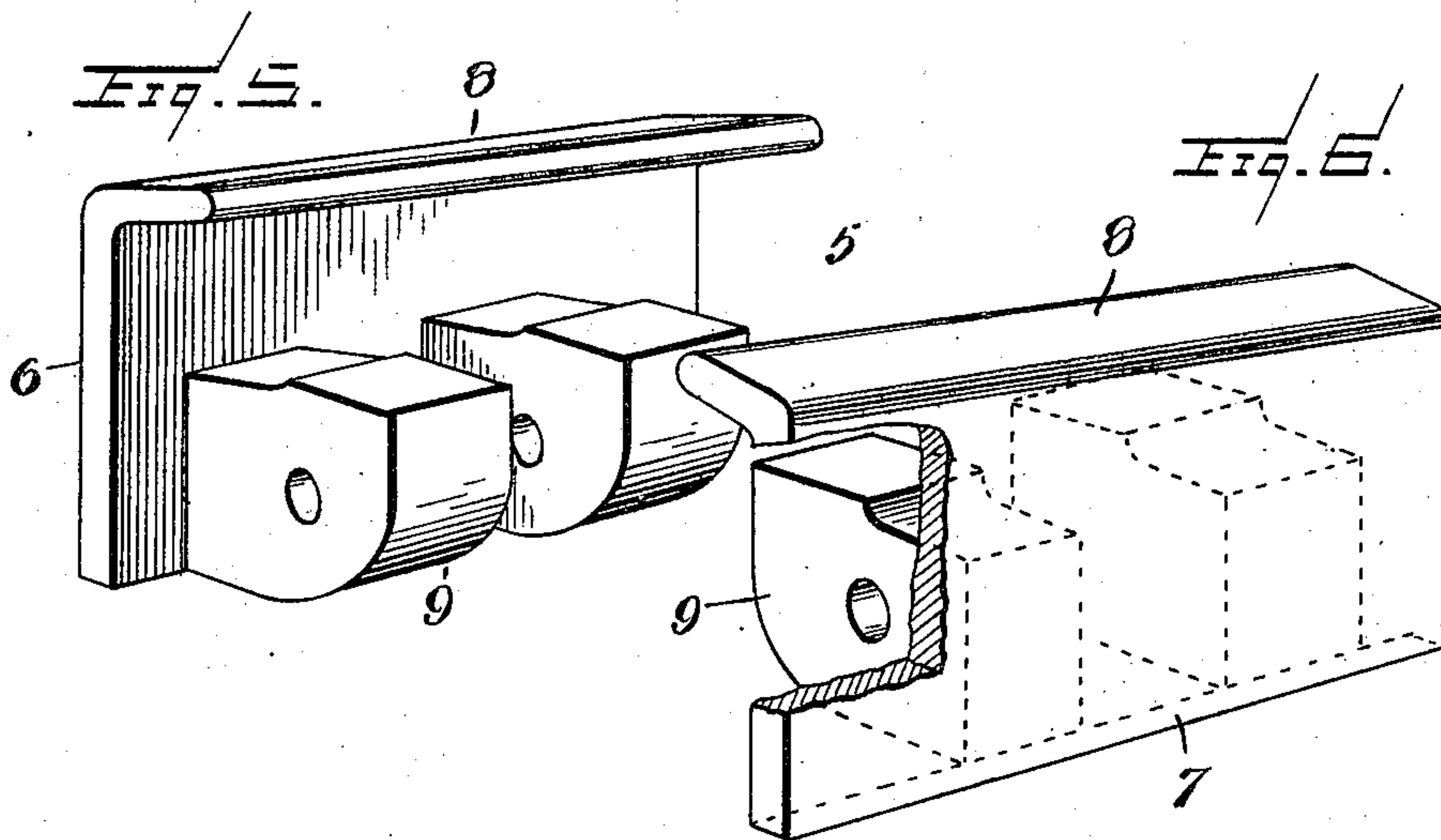


Fig. 7.

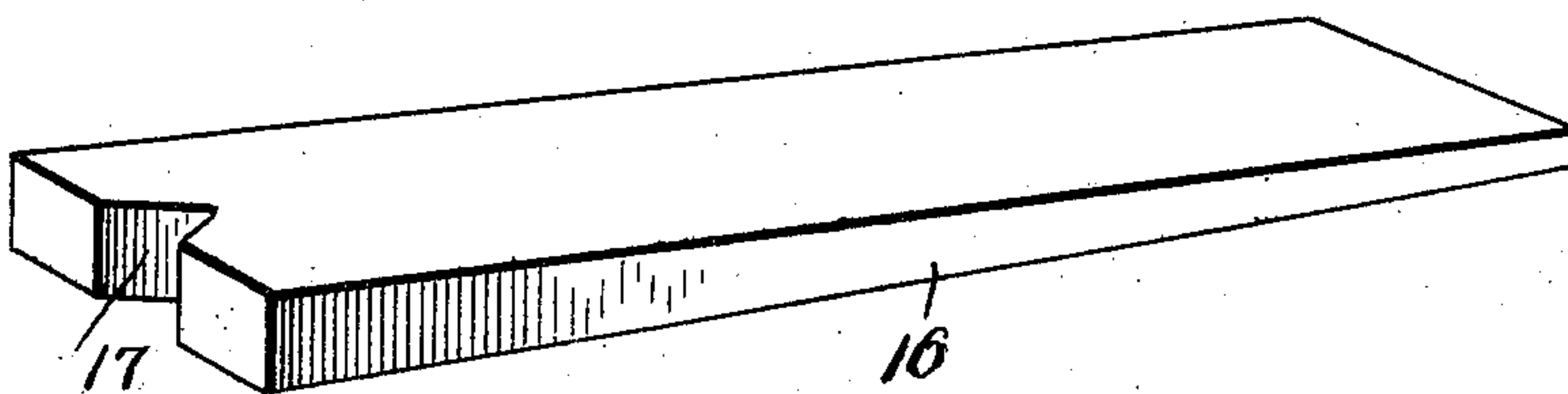
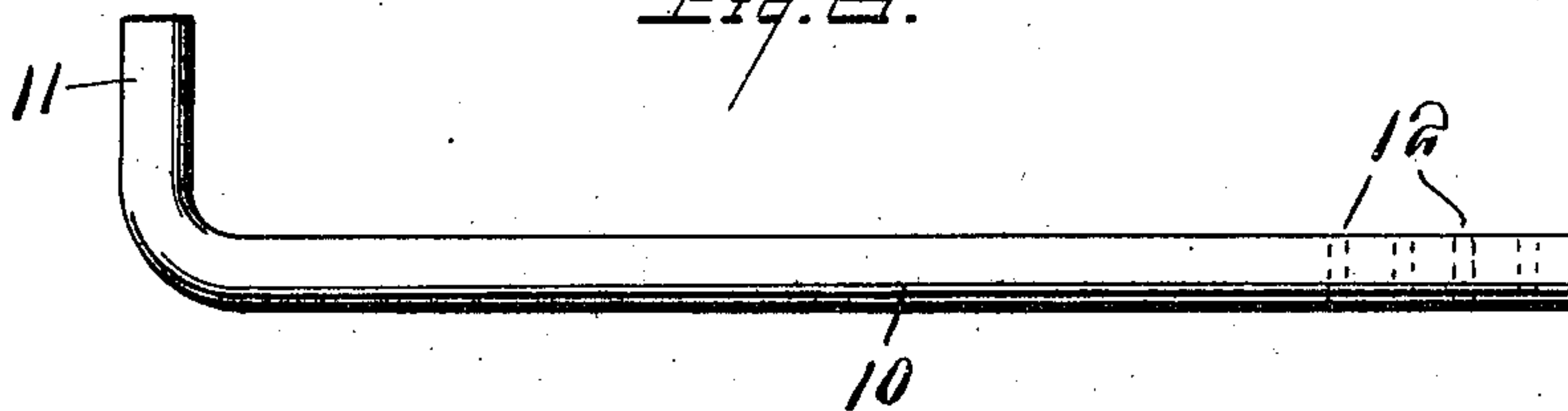


Fig. 8.



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SPLICE ATTACHMENT.

975,199.

Specification of Letters Patent.

Patented Nov. 8, 1910.

Application filed April 29, 1910. Serial No. 558,330.

To all whom it may concern:

Be it known that I, DAVIS AMBROSE, a citizen of the United States, residing at Louisville, in the county of Jefferson and State of Kentucky, have invented new and useful Improvements in Splice Attachments, of which the following is a specification.

This invention relates to improvements in rail joints, and the object of the invention is to provide a simple, inexpensive and thoroughly effective reinforcement for the fish plates connecting the contiguous ends of a pair of rails, one which may be easily and quickly applied or detached and which entirely dispenses with the use of bolts or analogous securing devices.

With the above, and other objects in view, which will appear as the description progresses, the invention resides in the novel construction and combination of parts hereinafter fully described and claimed.

In the accompanying drawings there has been illustrated a simple and preferred embodiment of the improvement, and in which drawings,

Figure 1 is a side elevation of a device constructed in accordance with the present invention, showing the same in applied position. Fig. 2 is a central longitudinal sectional view of the same. Fig. 3 is a section upon the line 3—3 of Fig. 1. Fig. 4 is a similar view upon the line 4—4 of Fig. 1. Fig. 5 is a perspective view of one of the sections of the improvement. Fig. 6 is a similar view of the opposite section. Fig. 7 is a perspective view of the wedge member. Fig. 8 is a side elevation of the pintle connecting the sections.

In the accompanying drawings the numeral 1 designates the meeting ends of a pair of rails. These rails are constructed in the ordinary manner and are connected through the medium of the usual fish plates, designated by the numerals 2 and 3. These fish plates, as shown, each comprises an overlying flange 3 which is adapted to be positioned upon the upper faces of the base flanges of the rails 1 and integrally formed vertical longitudinally extending portions which are adapted to engage the webs of the rails and to have their upper edges contact beneath the balls or heads of the rails. The fish plates 2 and 3 are connected with the rails through the medium of the usual bolts, and positioned for rotation upon the end

connecting bolts are oppositely inclined clamping members 4 the purpose of which will presently be described.

The numeral 5 designates the reinforcing member. This reinforcing member 5 comprises a pair of sections 6 and 7, and both of the sections have their upper edges provided with a longitudinally extending bead or offset 8 which is adapted to contact with the overlying flanges of the fish plates 2 and 3. The sections 6 and 7 have their lower extremities provided with inwardly projecting members or leaves 9 which are of a length corresponding with the width of the base flanges of the rails. The leaves are spaced apart, so that the leaves of one of the members engage between the leaves of the opposite member and all of the leaves are provided with alining openings which are adapted for the reception of a pintle 10. It will be noted by reference to the several figures of the drawing that the tops of the said leaves are inclined from one of the ends of the support to the opposite end of the sections thereof, and it will be further noted that each of the leaves is depressed from its center toward the members 6 and 7, thus providing what may be termed a plurality of teeth or engaging members. The pintle 10 has one of its ends bent as at 11, and its opposite extremity is provided with a plurality of perforations 12. These perforations are adapted for the reception of a cotter pin 13 which is adapted to engage with the washer 14 and positioned upon the pintle between this washer and the end leaf of one of the sections is a helical spring 15.

When it is desired to position the device upon the rails, it is merely necessary to open the sections upon the pintle 10 and to position the device so that its longitudinally extending beads will engage with the flanges of the rails or the flanges of the fish plates and to swing the same in position thereon. When this is accomplished a beveled wedge 16 is inserted between the tops of the leaves of the hinged sections and the rail bases and tightly engages the tops thereof. The cotter pin may be removed so as to allow free sliding of the pintle 10, and when the wedge is in proper position, the bent portion 11 of the said pintle is swung into engagement with a depression 17 formed in the enlarged end of the wedge. When this is accomplished the spring is compressed and the cotter pin inserted within the proper open-

ing in the pintle to retain the device in its set-up position. The clamping members 4 are then swung into position adjacent the ends of the sections and the sharpened edges of the oppositely disposed faces of the fingers 9 contacting the under face of the wedge effectively prevents the movement thereof in either direction, thus effectively locking the member 5 against longitudinal movement.

From the above description, taken in connection with the accompanying drawings it will be noted that I have provided an extremely simple and thoroughly effective device for the purpose intended, and while I have illustrated and described the preferred embodiment of the improvement, as it now appears to me, minor details of construction, within the scope of the following claims may be resorted to if desired.

Having thus fully described the invention, what I claim as new is:—

1. In a device for the purpose set forth, a pair of hinge members having longitudinally extending lips, a wedge for the said members, a pintle for the members being provided with a bent portion engaging the end of the wedge, and resilient means for retaining the bent portion in engagement with the edges and for preventing the opening of the hinge members.

2. In combination with the meeting ends of a pair of rails, splice bars for the rails, said splice bars being provided with pivoted clamping members, a support for the rails, and fish plates, said support comprising a pair of members, each of said members having its upper edge provided with a longitudinally extending bead, the said members being further provided with spaced inturned leaves, the leaves of one of the members adapted to alternate with the leaves of the

second members, the central portions of said leaves being provided with alining openings, a longitudinally extending pintle for the openings, a wedge between the leaves and the base flanges of the rails, said wedge member having its enlarged end provided with a depression, the pintle having one of its ends bent and adapted to engage the depression, and resilient means for retaining the pintle into engagement with the wedge.

3. In combination with the meeting ends of a pair of rails and fish plates therefor, of a reinforcing device, said reinforcing device comprising a pair of sections, each of said sections having its upper edge provided with a longitudinally extending bead, the lower portions of the sections being provided with inturned spaced leaves, the upper faces of each of the leaves being depressed from its center toward the inner face of the section, the leaves being each centrally provided with alining openings, the tops of the said leaves being inclined from one of the ends of the sections to the opposite end thereof, a pintle engaging the openings of the leaves, said pintle having one of its ends bent and its opposite straight end provided with a plurality of openings, a wedge member having its enlarged end provided with a depression adapted to engage the bent end of the pintle, a helical spring upon the opposite end of the pintle, and a washer also upon the pintle and engaging the spring, and a removable element for one of the openings of the pintle.

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

DAVIS AMBROSE.

Witnesses:

G. M. McMAHAN,
A. L. TRAIL.