

(No Model.)

A. DAVY.
SPLICE.

No. 544,965.

Patented Aug. 20, 1895.
Fig. I.

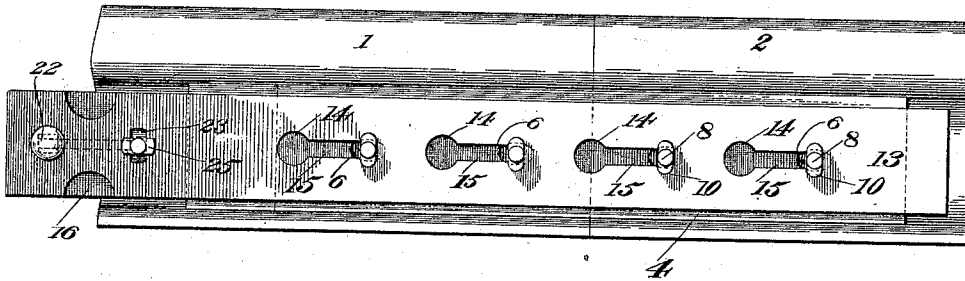


Fig. II.

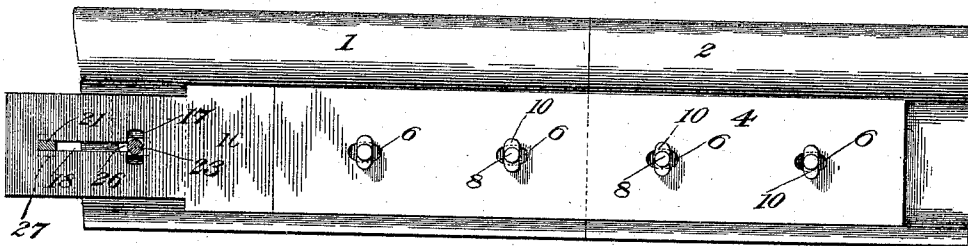
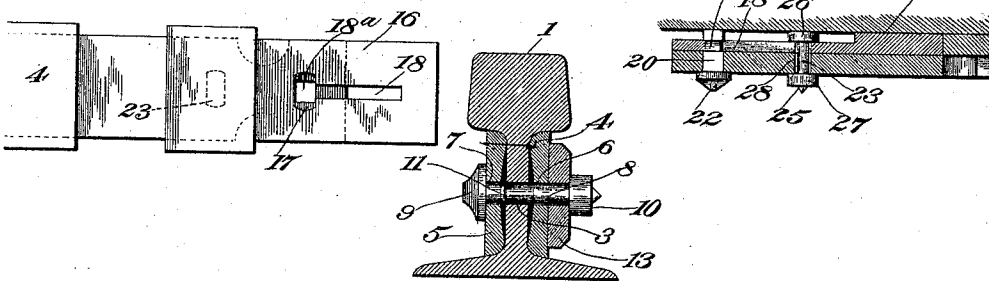


Fig. IV.

Fig. III.

Fig. V.



Witnesses

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UNITED STATES PATENT OFFICE.

ANDREW DAVY, OF SALINEVILLE, OHIO.

SPLICE.

SPECIFICATION forming part of Letters Patent No. 544,965, dated August 20, 1895.

Application filed March 14, 1895. Serial No. 541,785. (No model.)

To all whom it may concern:

Be it known that I, ANDREW DAVY, of Salineville, county of Columbiana, State of Ohio, have invented certain new and useful Improvements in Splices, of which the following is a specification, reference being had to the accompanying drawings.

The object of my invention is to produce improvements in that class of railroad-splices which forms the subject-matter of my patent, No. 532,365, issued January 8, 1895, whereby the fastening-plate and its adjoining binding-plate are firmly secured in place against the possibility of accidental dislodgment.

In the accompanying drawings, Figure I is a side elevation of my splice complete. Fig. II is a view of the same with the fastening-plate removed, showing the locking-plates in position as in practice they are held by the fastening-plate. Fig. III is a cross-sectional view through one of the pins with all of the parts in place. Fig. IV is a longitudinal section of one end of the fastening-plate, showing the means of introducing the locking-pieces. Fig. V is a similar view showing the locking-piece in place.

Referring to the figures on the drawings, 1 indicates one portion of a rail, and 2 another, designed to be secured to the first by my splice. These rails are pierced by the usual bolt-apertures 3, which are preferably oblong, as illustrated, to permit the introduction and withdrawal of the special kind of pin which I prefer to employ.

4 indicates one binding-plate, and 5 the other. They are, respectively, preferably provided with oblong apertures 6 and 7, corresponding in position and direction of cut to the arrangement of the apertures 3 in the rails.

8 indicates a pin having a head 9, a lugged or winged end 10 opposite thereto, and a shoulder 11 formed on the pin next to the head and at right angles to the wings 10.

In assembling the parts just described the pins are passed through the apertures in both the binding-plates and the rails, and are afterward turned respectively at right angles to the positions in which they are inserted, and when so turned the shoulders 11 enter the apertures in the binding-plate and are held by them against rotation. When they are thus set in position a fastening-plate 13, hav-

ing transverse oblong apertures 14, is set against the binding-plate, the apertures 14 receiving respectively the winged ends 10 of the pins. Longitudinal slots 15 are also provided in the fastening-plate, each of the slots communicating with its respective transverse aperture 14. When the fastening-plate is in position it is forced endwise against the pins, so that the pins in the slots 15, respectively, and their winged ends engage the sides of the slots and secure the parts together.

The foregoing features are illustrated in my previous patent. The part which constitutes my present invention consists in the method of preventing the accidental displacement of the fastening-plate after it is secured in position, and consists preferably of mechanism located at the end of the fastening-plate for securing it in a fixed position. It preferably consists of a piece 16, provided with an aperture 17 and an oblong slot 18 communicating therewith. The end of the fastening-plate is prolonged, and near its extremity is provided with an aperture 18^a, adapted to receive a pin 20, that has a reduced channeled shank 21, which enters the slot 18 when the pin is in place, and by its head 22 secures the locking-piece to the fastening-plate. The locking-piece, after being secured by the pin, is forced down against the end of the binding-plate that underlies the fastening-plate, and is secured by suitable means against it. For that purpose I may employ an oblong or square aperture 23, located so as to come opposite the aperture 17 in the locking-piece when the latter is in position against the end of the binding-plate. When the parts are in position a pin 25, resembling somewhat the pin 8, may be inserted in place. The pin 25 may be provided with a winged end 26 opposite the head 27 and an intermediate round shank 28. The apertures 17 and 18 may be constructed, as illustrated, so that when the pin 25 is turned a quarter-revolution after insertion in those apertures it will be secured in place by the engagement of its wings with the sides of the aperture, and thereby held in place.

What I claim is—

1. The combination with binding plates, pins and longitudinally movable fastening plate adapted to be assembled upon contiguous rails for fastening them together, of an

extension upon the fastening plate, an aperture in the extension of the fastening plate, a locking piece, an aperture in the locking piece, a slot communicating therewith, and a
5 pin adapted to be inserted in the apertures in the extension of the fastening plate and in the locking piece and to enter the slot in the locking piece to secure the parts together, substantially as and for the purpose specified.
10 2. The combination with binding plates, pins and longitudinally movable fastening plate adapted to be assembled upon contiguous rails for fastening them together, of an extension upon the fastening plate, an aperture in the extension of the fastening plate,
15 a locking piece, an aperture in the locking piece, a slot communicating therewith, and a pin adapted to be inserted in the apertures in

the extension of the fastening plate and in the locking piece and to enter the slot in the
locking piece to secure the parts together, a second aperture in the extension of the fastening plate adapted to come opposite the aperture in the locking piece when the latter is in position, and a pin adapted to enter said
25 second aperture in the fastening plate and the aperture in the locking piece to prevent the withdrawal of the locking piece, substantially as set forth.

In testimony of all which I have hereunto
30 subscribed my name.

ANDREW DAVY.

Witnesses:

JAMES DONOHUE,
P. M. ASHFORD.