

(No Model.)

2 Sheets—Sheet 1.

A. DAVY.
SPLICE.

No. 532,365.

Patented Jan. 8, 1895.

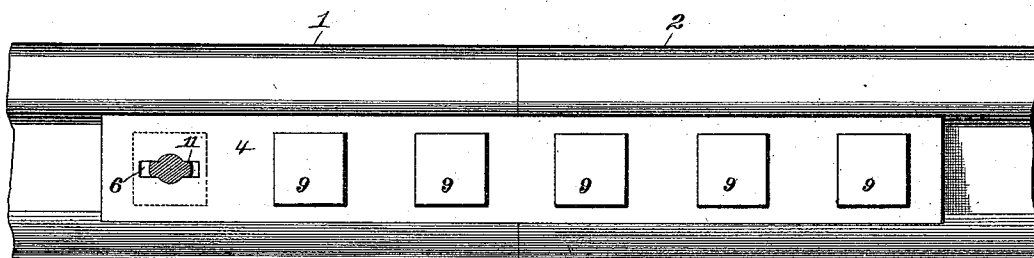


Fig. 1

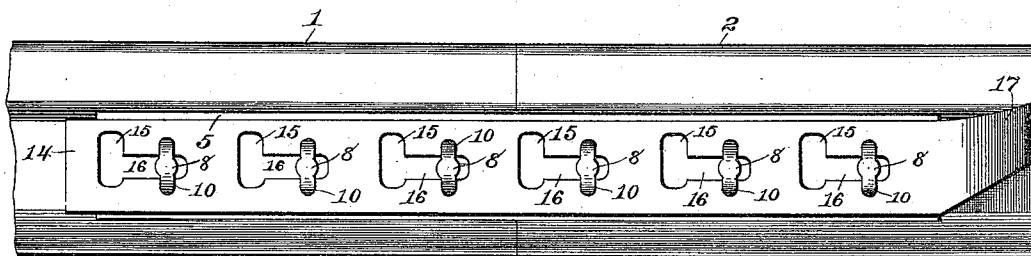


Fig. 2

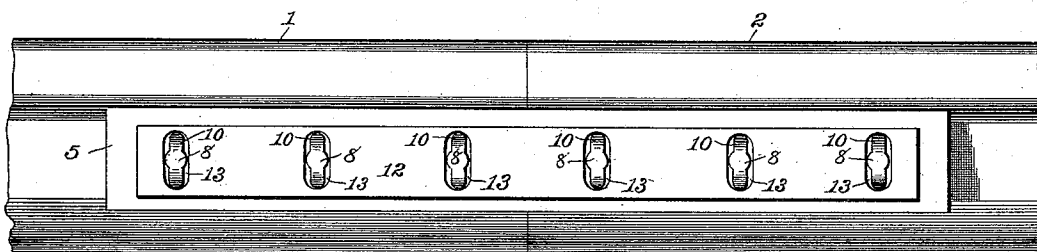


Fig. 3

Witnesses

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(No Model.)

2 Sheets—Sheet 2.

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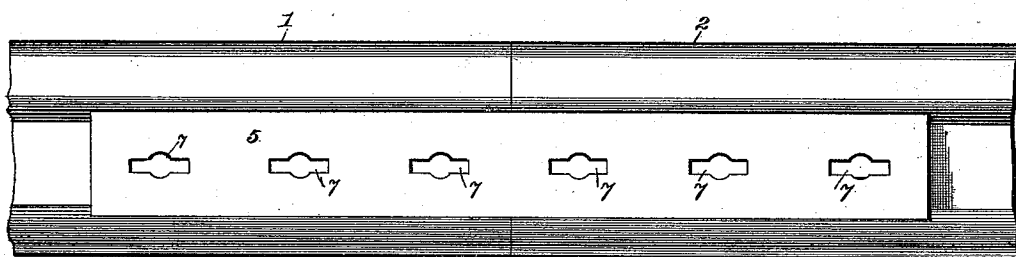


Fig. 4

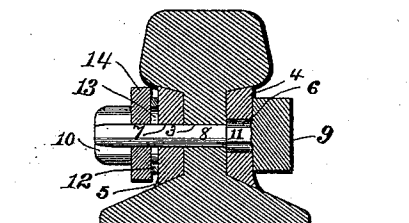


Fig. 5

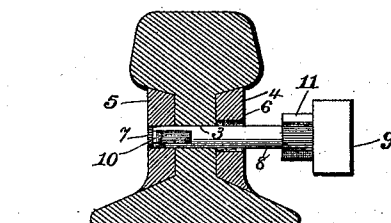


Fig. 6

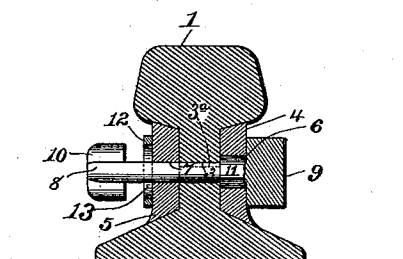


Fig. 7

Witnesses

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UNITED STATES PATENT OFFICE.

ANDREW DAVY, OF SALINEVILLE, OHIO.

SPLICE.

SPECIFICATION forming part of Letters Patent No. 532,365, dated January 8, 1895.

Application filed January 16, 1894. Serial No. 497,099. (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 splices specially applicable for uniting the contiguous ends of track rails, and designed to take the place of the ordinary fish plates and nuts generally employed and to hold the parts more rigidly and securely than such ordinary devices.

In the accompanying drawings: Figure 1 is a side elevation of two sections of rail with my fastening device applied. Fig. 2 is a view of the opposite side with all the parts in place. Fig. 3 is a view of the same with the fastening plate removed. Fig. 4 is a view with the lock plate removed. Fig. 5 is a cross sectional view through one of the pins, with all of the parts in place. Fig. 6 is a similar view showing some of the parts removed in the manner of introducing the pin through the binding plates. Fig. 7 shows the adjustment of the pin after insertion into place through the lock plate.

Referring to the figures on the drawings: 1 indicates a section of rail and 2 another. These sections are illustrated, for example, of two pieces that are to be united together. They are taken as an example because they constitute an important use to which my invention may be applied. These rails are pierced by circular apertures 3 having winged apertures 6, the whole constituting oblong openings piercing the web of the rail transversely.

4 indicates one of the binding plates and 5 the other. They have oblong apertures 6 and 7 corresponding in shape and location with the apertures in the rail.

8 indicates a pin having a head 9, a lugged or winged end 10 and a shoulder 11, corresponding in shape to the winged end but located at right angles thereto. For fastening the binding pieces in place the wing end of the pin is first passed through the openings

in the plates and in the rail until it clears the outside plate. It is then turned until the shoulder can enter the aperture in the binding plate next to it, when it is thrust into place and the rotation of the pin is prevented. A lock plate 12, having apertures 13 at right angles to the apertures in the binding plates, is then passed over the wing ends of the pins and serves as a kind of washer for the fastening plate 12. It also serves to hold the pins against sidewise movement, as they are similarly held by their shoulders on the opposite sides. The fastening plate is provided with transverse apertures 14 and longitudinal apertures 15 opening into the same. It is also preferably provided at one end with a driving head 16.

In practice, the parts having been assembled and the pins set in place in the manner above described, the heads of the several pins are inserted through the transverse apertures 14. The fastening plate is then driven longitudinally against the pins so that their winged ends bridge the sides of the apertures 14 and secure the parts firmly together. The friction of the parts serves to hold them firmly together. There are no nuts to work loose on bolts, but the entire fastening device is united into a firm and compact whole.

What I claim is—

1. The combination with binding plates, winged pins and oblong apertures in the binding plates, of a lock plate, transverse apertures therein, a fastening plate, and transverse and longitudinal apertures therein, substantially as and for the purpose specified.

2. The combination with rails provided with oblong apertures, and binding plates provided with similar apertures, of shouldered and winged pins, a lock plate provided with transverse apertures, and a fastening plate provided with transverse and longitudinal apertures, substantially as set forth.

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

ANDREW DAVY.

Witnesses:

MATTHEW O'BRIEN,
P. M. ASHFORD.