

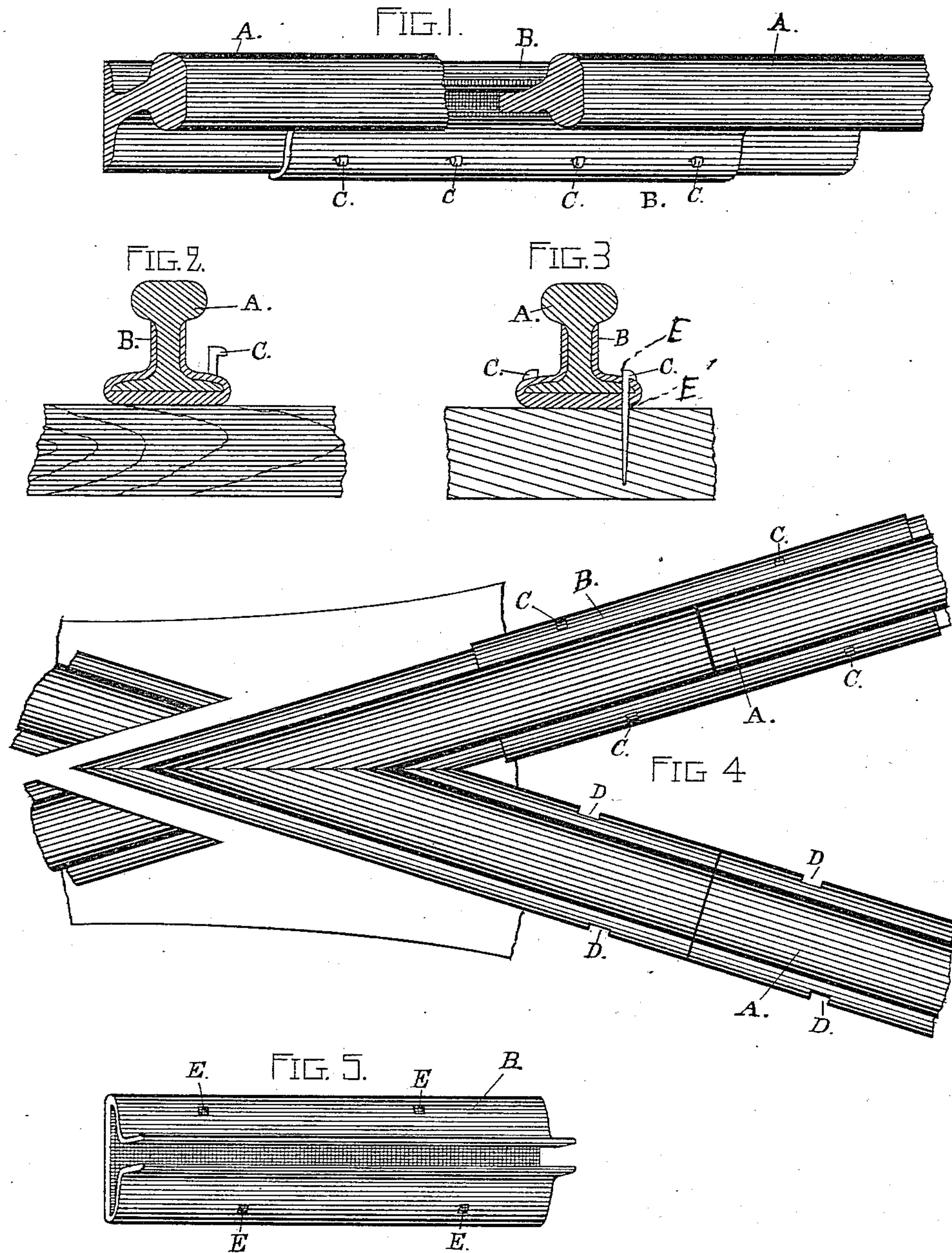
(No Model.)

W. WILT.

COMBINED CHAIR, FISH PLATE, AND RAIL COUPLER.

No. 379,432.

Patented Mar. 13, 1888.



ATTEST,
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UNITED STATES PATENT OFFICE.

WILLARD WILT, OF EUREKA, CALIFORNIA.

COMBINED CHAIR, FISH-PLATE, AND RAIL COUPLER.

SPECIFICATION forming part of Letters Patent No. 379,432, dated March 13, 1888.

Application filed March 18, 1887. Serial No. 231,356. (No model.)

To all whom it may concern:

Be it known that I, WILLARD WILT, a citizen of the United States, residing in Eureka, in the county of Humboldt and State of California, have invented a new and useful Combined Chair, Fish-Plate, and Rail Coupler, of which the following is a specification.

My invention relates to improvements in combined chairs and rail connections for railroad-rails. It will be understood by reference to the accompanying drawings and the letters referring thereto.

Figure 1 is a view showing two rails, one broken off in order to show my improvement in chair and rail connection. Figs. 2 and 3 are end sectional views showing the same. Fig. 4 is a plan view showing a portion of a frog with my improvement attached. Fig. 5 is a perspective view of one of my improved combined chairs and couplings.

A represents an ordinary T-rail; B, the combined chair and railroad coupling; C, the spikes; D, the spike-recesses in the rail, and E the aligned spike holes in the combined chair, fish-plate, and rail coupling.

The following is the construction and operation of the same:

I form the combined chair and fish-plate coupling of about one inch in thickness at the bottom, and reduce the thickness at the sides to adapt it to the breadth of the head of the rail.

I adapt the construction of my improved combined chair and fish-plate coupling to any form of rail where the same principle may be applied.

This improvement has great advantages over the common fish-plate, from the fact that it holds the rail more firmly and prevents the possibility of the rails getting away from a

perfect adjustment in line with each other, and the notches D are sufficiently elongated to allow for all contraction and expansion, while the spike-holes in my combined chair and coupling, fitting exactly to the spike, prevent the rails from being drawn apart more at one point than another, as is the case with rails where the track is liable to be heated and expanded at one point more than at another, and the services of the track-walker are not needed to keep any screws or other device from loosening, as is liable where the fish-plate is employed.

I am aware that it is not new to form a combined fish-plate and rail-chair from a single piece, and that the same has been provided with elongated slots for the reception of securing spikes; but I am not aware that any one has heretofore formed such a device from a single piece with its base of an increased thickness, and its vertical branches, forming the fish-plates, thinned out so that they may yield outwardly, so as to embrace the web or rails of various sizes.

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

The improved railway-chair and fish-plate described, consisting, essentially, of a single piece of metal having a base increased in thickness, as shown, and the vertical branches forming the fish-plates reduced, so as to allow them to yield laterally and embrace the web of rails of various thicknesses, substantially as specified.

WILLARD WILT.

Witnesses:

JOHN H. REDSTONE,
L. E. REDSTONE.