E. B. ELDRIDGE. SPLICE BAR. APPLICATION FILED OCT. 13, 1908.

923,634.

Patented June 1, 1909.

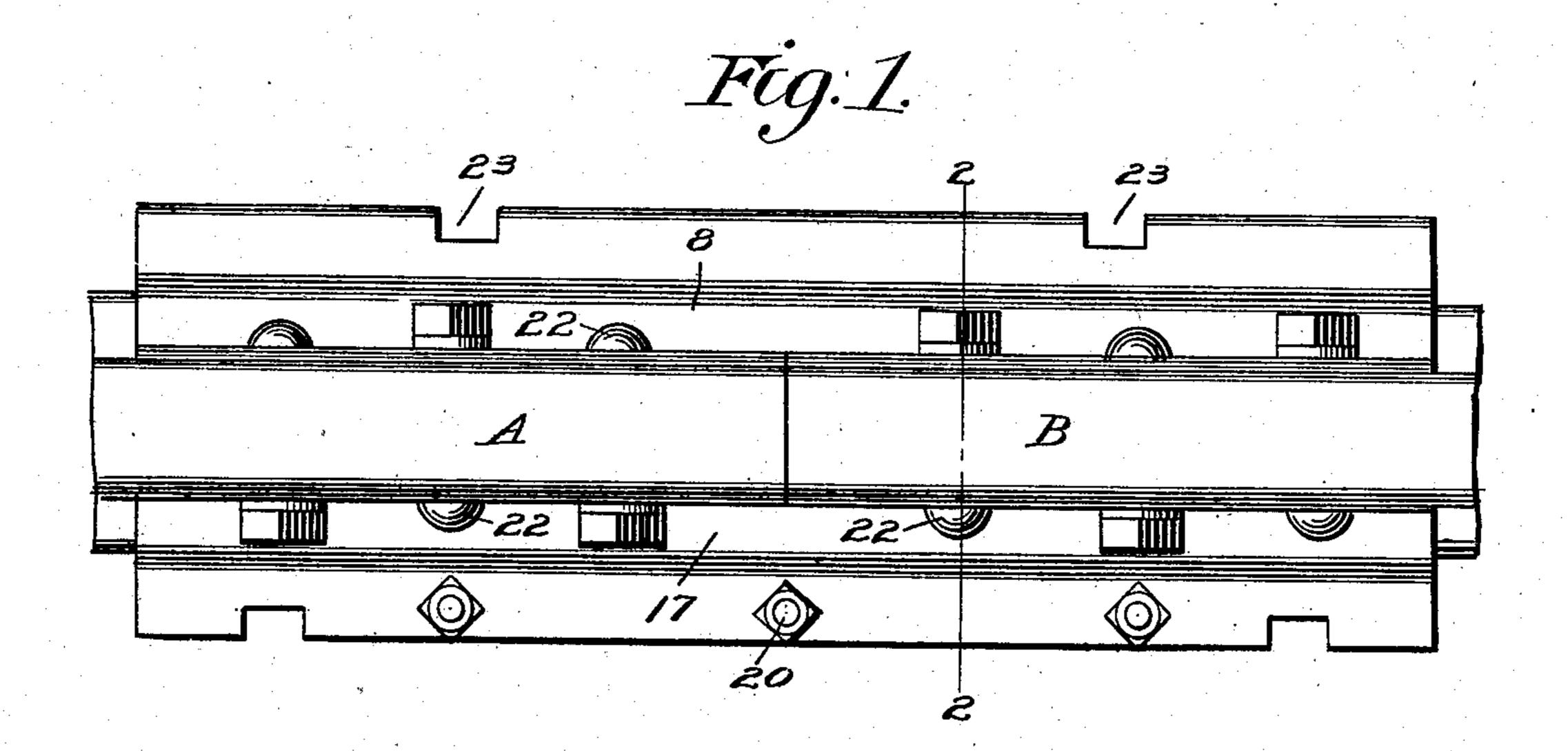
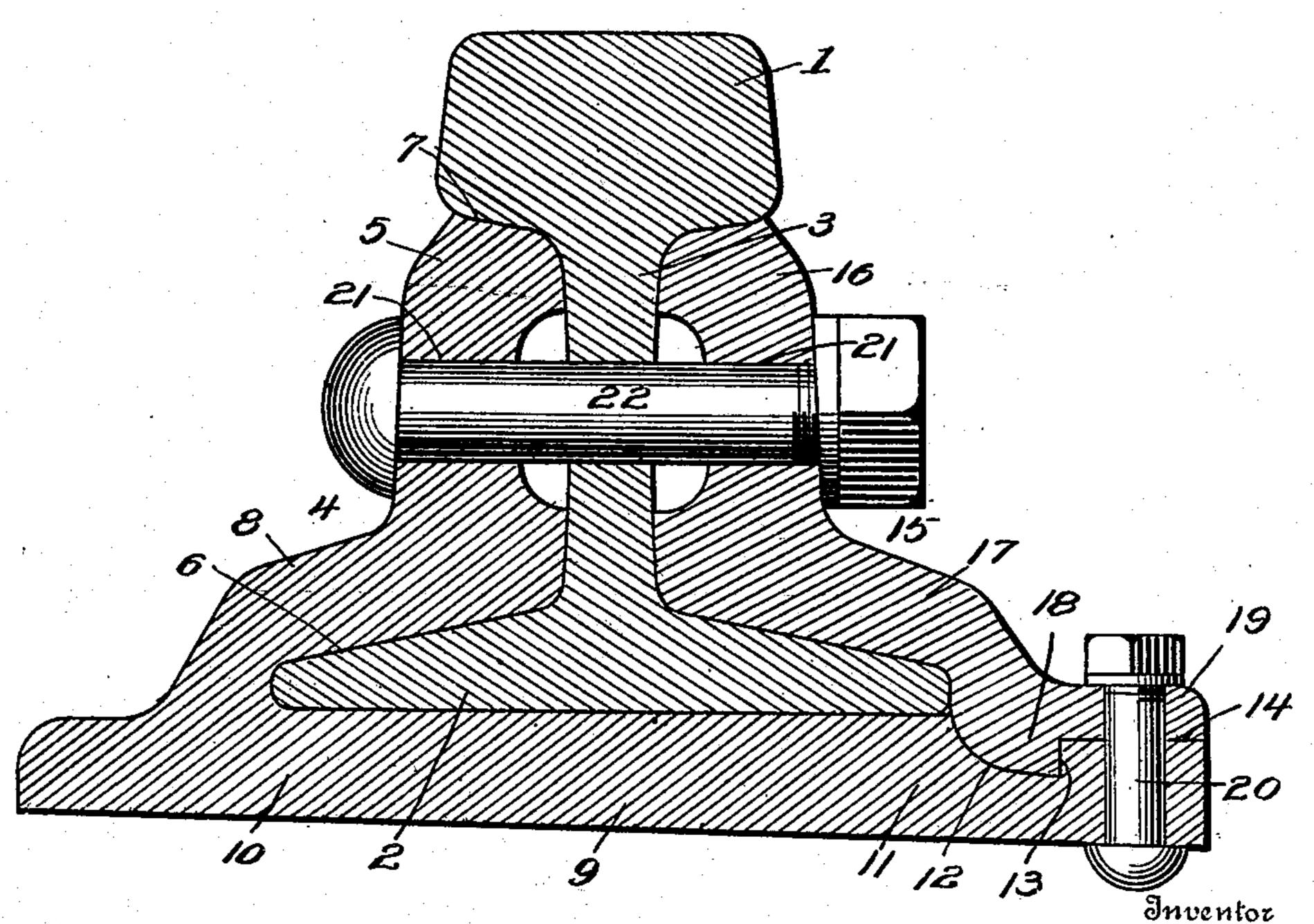


Fig. Z.



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SPLICE-BAR.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, EDWIN B. ELDRIDGE, a citizen of the United States, residing at Allentown, in the county of Lehigh and State of Pennsylvania, have invented new and useful Improvements in Splice-Bars, of which the following is a specification.

This invention relates to splice bars, and has for an object to provide a device of this character adapted to securely hold the meeting ends of rail sections, and to securely brace the said rail sections between the base flange

and the tread flange.

A further object of this invention is to provide a splice bar comprising two sections which may be conveniently and quickly mounted in place upon the rail ends, and to so construct one element of the said splice bar so that it may be conveniently detached without removing the other part of the said splice bar.

A further object of this invention is to provide means so that the splice bar will assume its correct or perpendicular position irre-

²⁵ spective of the inclination of the ties.

Other objects and advantages will be apparent as the nature of the invention is better set forth, and it will be understood that changes within the scope of the claim may be resorted to without departing from the spirit of the invention.

In the drawing, forming a portion of this specification and in which like numerals of reference indicate similar parts in the several views:—Figure 1 is a top plan view of two rail ends showing the application of the present splice bar thereto. Fig. 2 is a section

taken on the line 2—2 of Fig. 1.

Referring now more particularly to the ⁴⁰ drawing, rail sections A and B are provided which are of the usual construction and comprise the tread flange 1, a base flange 2 and the connecting web 3. The splice bar comprises an element 4 having an enlarged verti-⁴⁵ cal portion 5 having a beveled lower portion 6 and a beveled upper portion 7, the said | beveled portions being adapted to seat against the beveled faces of the tread and base flanges of the rail sections which materi-⁵⁰ ally strengthens the web 3 at this joint and adjacent thereto as will be readily understood. The portion 5 has formed integral therewith at its lower end an angularly disposed portion 8 which is thus adapted to seat 55 against a portion of the base flange. A longitudinally extending base 9 is connected with

the portion 8 and extends from one side of the rail sections to the other side as clearly shown in Fig. 2. The base 9 is preferably tapered and consists of a reduced portion 10 60 and an enlarged portion 11. The base 9 is grooved longitudinally at one side of the rail sections as clearly indicated at 12, and the provision of the said groove forms a longitudinally extending shoulder 13 and a longitudinally extending flat face or seat 14.

An element 15 is provided and comprises a portion 16 similar to the portion 5, and the said portion 16 at the lower end is formed integral with an outwardly directed portion 70 17. A longitudinally extending rib or bead 18 is carried by the portion 17 and is provided so that it may be seated in the groove 12. The rib or bead 18 carries an outwardly directed flange 19 which when the said rib 75 is in position rests upon the seat 14. The flange 19 and the seat 14 are provided with vertical alining passages to receive clamping bolts 20. The portions 5 and 16 of the elements 4 and 15 are provided with alining 30 horizontal passages 21 which receive horizontally disposed clamping bolts 22 which are also engaged in passages or slots formed in the rail sections. Suitable notches 23 are formed in the base portions of the elements 35 4 and 15 to receive clamping bolts or spikes to be engaged with railway ties.

It will be seen that an extremely simple and useful splice bar is provided which is so constructed so that an effective joint is pro-90 vided for the rail sections. The construction of the elements 4 and 15 is such that the web portions 3 at each side of the joint are effectively braced and the said web portions are consequently relieved of considerable 95 strain and are prevented from buckling as has been experienced heretofore in railway structures of this character. When it is desired to replace old rail sections by new ones the member 4 may remain upon the 100 sections intact, and by removing the bolts 20 and 22 the element 15 can be removed to allow proper access to the said rail sections.

Having thus described the invention what is claimed, as new is:—

The combination with meeting rail sections, of a splice bar comprising separable elements located at the sides of the webs of the sections and having portions disposed between the base flanges and the tread 110 flanges, one of said elements having a longitudinally extending base for supporting the

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base flanges of the rail sections and provided with a portion extended at one side of the said sections and having formed therein a longitudinally extending groove located ad-5 jacent to one edge of the base flanges of the said section, said base having a longitudinally extending seat disposed outwardly of the said groove and provided with a series of passages, a rib carried by the other element 10 and disposed in the groove, said last named element having a longitudinally extending flange extending outwardly from the rib and fitted upon the seat, said flange having a

series of passages alining with the passages formed in the seat, vertically extending bolts 15 disposed in the passages formed in the seat and in the passages formed in the flange, and horizontally disposed fastening devices engaged with the said elements and with the said rail ends.

In testimony whereof I affix my signature

in presence of two witnesses.

EDWIN B. ELDRIDGE.

Witnesses: SYLVESTER M. RUCH, OSVILLE P. RUCH.