

(No Model.)

A. W. WRIGHT. SWITCH CLIP.

No. 484,622.

Patented Oct. 18, 1892.

Fig. 2.

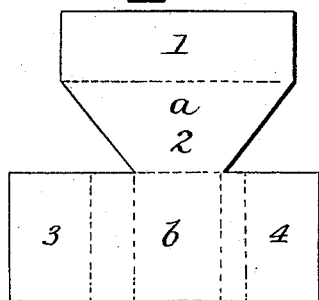


Fig. 1.

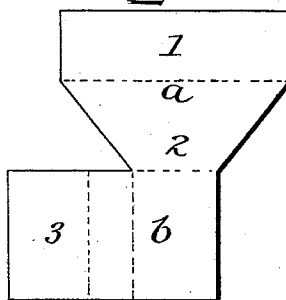


Fig. 3.

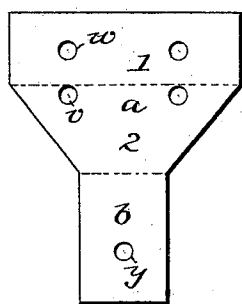


Fig. 4.

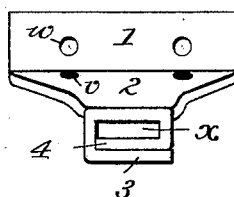


Fig. 5.

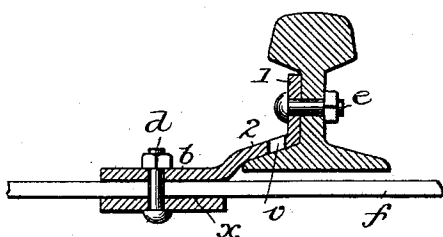


Fig. 6.

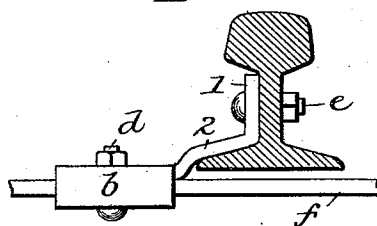


Fig. 7.

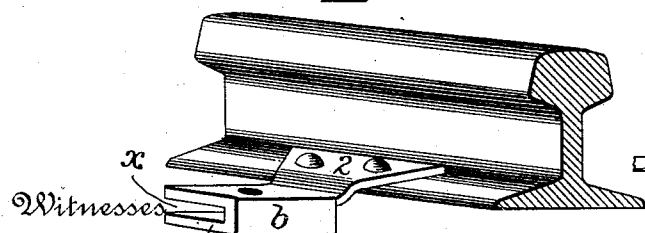
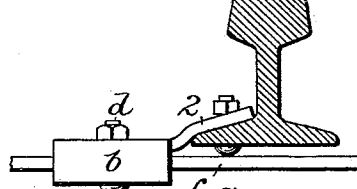


Fig. 8.



Witnesses
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ABRAM W. WRIGHT, OF HILLBURN, NEW YORK, ASSIGNOR TO THE RAMAPO
IRON WORKS, OF SAME PLACE.

SWITCH-CLIP.

SPECIFICATION forming part of Letters Patent No. 484,622, dated October 18, 1892.

Application filed November 19, 1891. Serial No. 412,394. (No model.)

To all whom it may concern:

Be it known that I, ABRAM W. WRIGHT, a citizen of the United States, residing at Hillburn, in the county of Rockland and State of New York, have invented certain new and useful Improvements in Switch-Clips, of which the following is a specification.

My invention relates to connections for railroad switch-bars; and it consists of an attachment made from a plate bent to form a flange and neck to fit the rail and a longitudinal socket for the bar, as fully set forth hereinafter, and as illustrated in the accompanying drawings, in which—

Figure 1 is a plan illustrating the form of blank used in making my improved attachment. Fig. 2 is a blank having two wings. Fig. 3 is a plan of the blank perforated. Fig. 4 is an end view of the blank. Fig. 5 is a sectional view of a blank applied to the rail. Fig. 6 is a side view of the blank applied to the rail. Fig. 7 is a perspective view of a modification. Fig. 8 is a side view of parts shown in Fig. 7.

The blank from which the attachment is made consists of a single plate of malleable metal, as rolled plate iron or steel, having two portions *a* *b*, the former adapted to be bent to form an upright flange 1 and a neck 2, the flange adapted to the web and the neck to the lower flange of a rail, as best shown in Fig. 5, while the portion *b* has a lateral wing 3, or two lateral wings 3 4, which wing or wings may be bent first downward and then inward to form a longitudinal socket *x*, adapted to receive the end of a switch-bar. When two wings are used, I prefer to overlap them, as shown in Fig. 4, thereby forming practically a closed wrought-metal socket, the overlapping portions being united by the bolt *d*. The neck portion 2 of the part *a* is of such length as to extend over the edge of the rail-flange, whereby the socketed portion *b* is carried with its socket below the lower face or base of the rail, permitting the switch-bar to pass through the socket and beneath the base of the rail, as shown in Fig. 6, and the portion *b* has a vertical perforation *y* for the passage of a bolt *d*, and the portion 1 has two or more perforations *w* for the passage

of bolts *e*, that secure the connection to the rail.

When the space between the rail-head and the flange is limited, the neck 2 of the attachment is provided with perforations or recesses *v*, so as to permit the heads of the bolts *e* to be turned, if screw-bolts only are used, or to permit the turning of the nuts when the latter are employed, as is generally the case.

By forming the connection so as to secure a longitudinal socket in the portion *b*—that is, a socket with one or two sides longitudinal to said portion *b*, but transverse to the line of the rail—I secure increased strength of structure, inasmuch as the neck portion 2 is not cut away or weakened in order to secure the socket. When the socket is made by bending inward a single wing from a blank formed as in Fig. 1, said socket is open at one side, which permits the bar *f* to be removed laterally, as is desirable in some cases. In either case there is a firm support for the bolt *d*, which acts as a pivot, allowing the play necessary in such cases.

It is obvious that the various features of my clip may be used together or separately, or in combination with other equivalent features—as, for instance, as shown in Fig. 7, the neck portion without the upright flange 1 may be used by being attached to the lower flange of the rail instead of to the web of the rail.

Without limiting myself to the precise construction and arrangement of parts shown and described, I claim—

The herein-described clip, consisting of a plate having a portion *a* bent to form a flange 1 and a neck 2, a portion *b* bent to form a socket, the portion *a* being perforated for attachment to the rail, and the socket being open at one side to permit of the insertion or removal of a switch-bar, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ABRAM W. WRIGHT.

Witnesses:

EDWARD C. RIPLEY,
GEORGE W. CONKLIN.