

P. B. HARRISON.
FINGER GUARD CLAMP.
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1,059,361.

Patented Apr. 22, 1913.

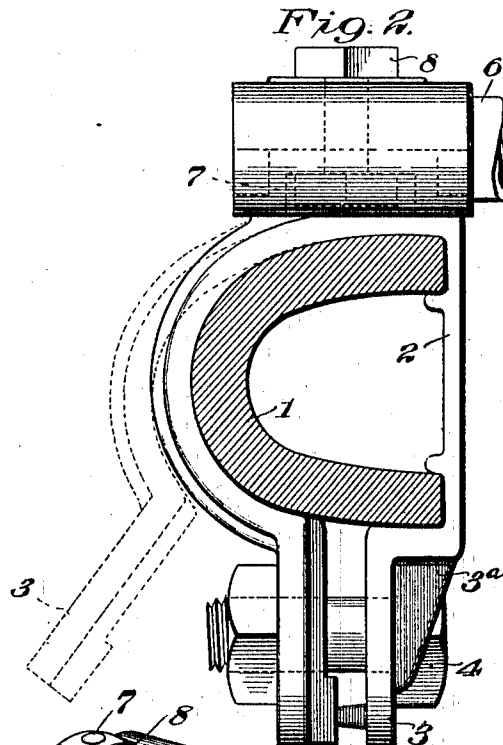
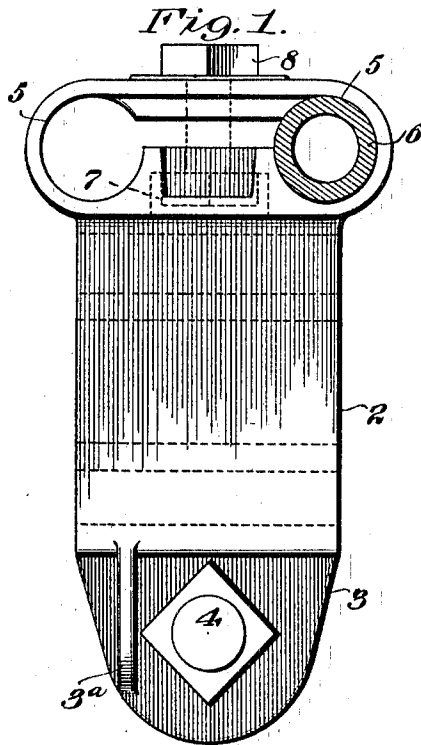
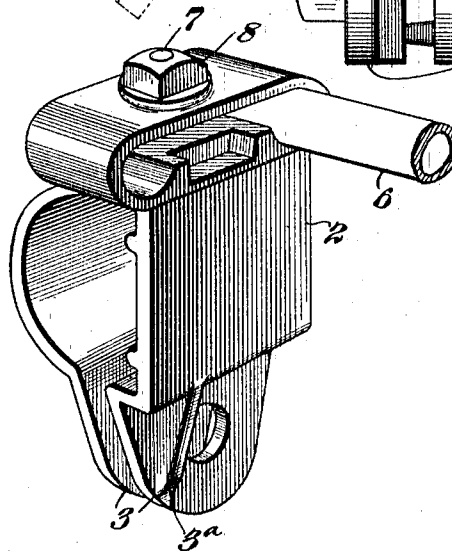


Fig. 3.



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UNITED STATES PATENT OFFICE.

PHILIP B. HARRISON, OF CHICAGO, ILLINOIS, ASSIGNOR TO CHICAGO RAILWAY EQUIPMENT COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

FINGER-GUARD CLAMP.

1,059,361.

Specification of Letters Patent.

Patented Apr. 22, 1913.

Application filed August 9, 1912. Serial No. 714,257.

To all whom it may concern:

Be it known that I, PHILIP B. HARRISON, a citizen of the United States, residing at city of Chicago, State of Illinois, have invented a certain new and useful Improvement in Finger-Guard Clamps, of which the following is a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a front elevational view of my improved finger guard clamp. Fig. 2 is a side elevational view showing the clamp in position on the brake beam. Fig. 3 is a detail perspective view of the clamp with its guard finger in position.

This invention relates to a new and useful improvement in finger guard clamps for brake beams, the object being to construct a clamp which will fit on the compression member of the beam where the space between the truss rod and the compression member is limited, as for instance in cases where turnbuckles are used to secure the truss rod in position. It is obvious, however, that my improved clamp can be used to advantage on other forms of beams.

Heretofore it has been the practice to make separate finger guard clamps for each end of the beam and this necessitates a right and left hand casting. The present design permits of the use of one pattern only, there being two seats for the guard finger and clamping means for holding the guard finger in either seat. In this manner the clamp may be secured at either end of the beam and a guard finger employed in either seat so that a right and left hand guard finger is thus arranged on the beam.

In the drawings, 1 indicates the member of the beam on which the guard finger is mounted, and 2 is the clamping member composed of separable jaws having depending lugs 3 through which passes a clamping bolt or securing member 4. The walls 2 are shaped to accommodate the beam member and when the lugs 3 are drawn together this

clamping member is held securely on the beam member. One of the lugs 3 is preferably provided with a strengthening rib 3^a. The clamping member 2 on one of its sides is provided with two finger seats 5 for the reception of the guard finger 6. The metal between the seats 5 is preferably removed as shown in Fig. 1 so as to enable the outer wall of the seats to be moved inwardly in clamping the finger in position. This inward movement of the outer wall is effected by means of a bolt 7 preferably introduced from the beam side and having a nut 8 on its outer end which, when turned down, will clamp the guard finger in position. In this manner, a single clamping nut may be employed for either the right or left hand guard finger, but it is obvious that instead of having a continuous outer wall and a single clamping means, that the outer wall might be divided and a separate clamping means provided for each division and clamping finger.

What I claim is:

1. A clamp for guard fingers comprising means for attachment to a beam, recesses for receiving either a right or left hand guard finger, and means independent of the beam attaching devices for clamping the guard finger in position.

2. A clamp for guard fingers comprising means for attachment to a beam, seats for receiving the right and left hand guard fingers, the outer wall of said seats being movable, and means independent of the beam attaching devices for moving said outer wall inwardly to clamp the right or left hand guard finger in position.

3. A clamp for guard fingers comprising a casting having clamping walls for embracing a part of the brake beam, seats for right and left hand guard fingers, the outer wall of said seats being movable, and a clamping medium coöperating with said outer wall and located intermediate said seats.

4. A clamp for guard fingers comprising a casting composed of separable jaws for embracing a part of the brake beams, seats for right and left hand guard fingers, there

being a space between said seats whereby the outer wall of the seats is movable, and a clamping medium arranged between the seats for forcing said outer wall inwardly to clamp either the right or left hand finger guard in its seat.

In testimony whereof I hereunto affix my

signature in the presence of two witnesses, this sixth day of August, 1912.

PHILIP B. HARRISON.

Witnesses:

E. T. WALKER,

M. F. HUNTOON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents Washington, D. C."