I. E. HARRIS.

CONVEYER CHAIN CLEAT.

APPLICATION FILED MAY 21, 1915.

1,186,774. Patented June 13, 1916

Fig. 1.

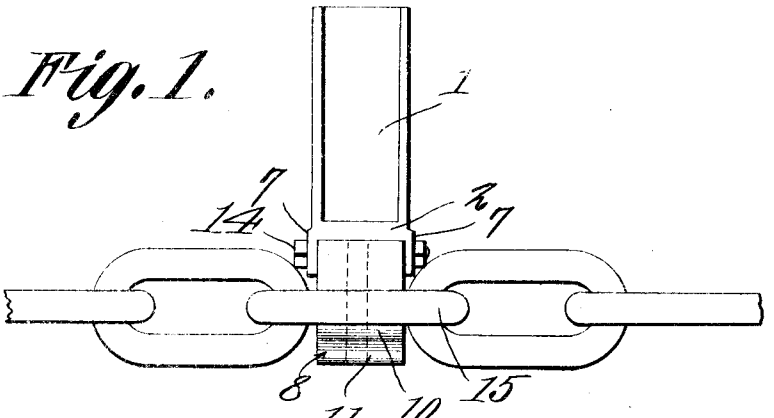


Fig. 2.

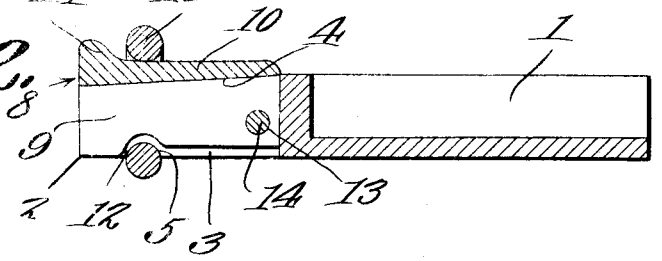


Fig. 4.

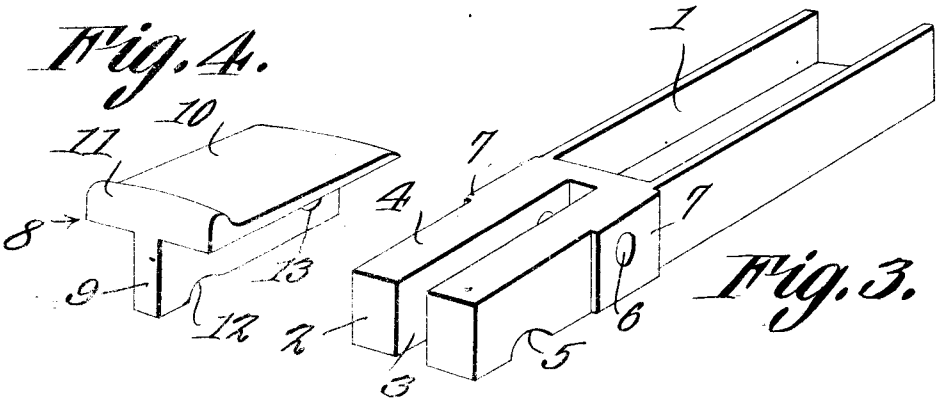


Fig. 3.

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UNITED STATES PATENT OFFICE.

ISAAC E. HARRIS, OF URANIA, LOUISIANA, ASSIGNOR OF ONE-HALF TO QUINTIN T. HARDTNER, OF URANIA, LOUISIANA.

CONVEYER-CHAIN CLEAT.

1,186,774. Specification of Letters Patent. Patented June 13, 1916.

Application filed May 21, 1915. Serial No. 29,559.

To all whom it may concern:

Be it known that I, ISAAC E. HARRIS, a citizen of the United States, residing at Urania, in the parish of La Salle and State of Louisiana, have invented a new and useful Conveyer-Chain Cleat, of which the following is a specification.

The present invention appertains to conveyer chain cleats or flights, and aims to provide a cleat of novel construction whereby it may be readily and effectively applied to the link of a conveyer chain to be carried thereby.

Another object of the invention is the provision of a conveyer chain cleat embodying a unique assemblage or combination of the component parts, whereby the cleat is applicable to the conveyer chain link in a desirable and efficient manner, with the cleat projecting to one side or other of the conveyer chain, the construction of the device being comparatively simple and inexpensive, and the device being convenient, practical and serviceable in use.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

The invention is illustrated in the accompanying drawing, wherein—

Figure 1 is a plan view of the improved cleat as applied to a conveyer chain. Fig. 2 is an enlarged longitudinal section of the cleat. Fig. 3 is a perspective view of one part or member of the cleat, and Fig. 4 is a perspective view of the other part or member of the cleat.

The present cleat comprises two parts or sections, and a bolt, the parts or sections being constructed of suitable metal and of any suitable size.

One part of the cleat embodies a channel shaped arm 1 having a bifurcated butt end portion 2, the slot 3 of which is parallel with the sides of the butt end portion 2. The top of the end portion 2 is inclined, as at 4, from the end of the section, and the bottom of the portion 2 is provided with a transverse groove 5 adjacent the end of the section. The end portion 2 is also provided with a transverse bore or opening 6 intersecting the slot 3 adjacent the inner end thereof, the bore or opening 6 extending between the sides of the portion 2, and the sides of the portion 2 preferably have outstanding bosses 7 surrounding the ends of the bore or opening 6. The other part or section of the cleat, which has been designated by the numeral 8, is of T-shaped cross section, and includes the body or web 9 adapted to fit snugly within the slot 3, and the head 10 adapted to fit snugly upon the inclined top 4 of the end portion 2 of the first or main section. The head 10 of the section 8 is tapered or wedge-shaped between its ends, and the thick end of the head 10 is provided with an upstanding transverse rib 11. The section 8 serves as a locking member for attaching the main section of the cleat to the link of a conveyer chain.

The lower edge of the body or web 9 of the section 8 is provided adjacent one end with a lower notch 12 adapted to register with the groove 5 of the main section, and the body or web 9 is provided adjacent its other end with an aperture 13 adapted to register with the bore or opening 6.

When the sections or parts of the cleat are assembled, they are adapted to be secured together by means of a bolt or other securing element 14 engaged through the bore 6 and aperture 13 of the respective sections. The bifurcated end portion 2 is of such a size as to pass readily through the link 15 of the conveyer chain to which the cleat is to be applied, and the main section may then be connected to the link 15, by slipping the locking section 8 into engagement with the bifurcated end portion 2 of the main section. Thus, the body or web 9 of the locking section 8 is slipped into the slot 3, and the head or wedge 10 of the section 8 is slipped between the top 4 of the main section and the upper bar of the link 15, and the section 8 may then be pushed or driven into place so that the head 10 will wedge between the bifurcated end portion 2 of the main section and the upper bar of the link 15. The rib 11 of the section 8 serves as a means for receiving the blow of a hammer or other implement, if the section 8 is driven into place, and also coöperates with the link 15 to assist in holding the link

and cleat in proper position relative to one another. The lower side bar of the link is received by the groove 5 and notch 12 of the respective cleat sections, which will hold the parts in proper position. When the sections or parts of the cleat are assembled, the bolt or securing member 15 is engaged through the sections, for holding them together.

The construction of the present cleat renders it desirable for obvious reasons, the present cleat being of advantage for quick and effective attachment of the conveyer chain at either side thereof, and without danger of the cleat breaking or becoming displaced even though the chain is subjected to considerable strain or hard usage.

It will be evident that in practice a number of the cleats may be applied to the conveyer chain, to work within a trough for moving the material along the trough with the conveyer chain.

What is claimed is:

1. A conveyer chain cleat comprising two sections, one section having a bifurcate end portion provided with a transverse groove, the other section being of T-shaped cross section and including a web to enter the slot of said bifurcated end portion and a head to overlap said end portion opposite said groove, and means for securing the sections together.

2. A conveyer chain cleat comprising two sections, one having a bifurcated end portion, and the other being of T-shaped cross section and having a web to enter the bifurcated portion and a wedge-shaped head to overlap said bifurcated portion, and securing means engageable through said bifurcated portion and web.

3. A conveyer chain cleat comprising two sections, one having a bifurcated end portion provided with a transverse groove and an opposite inclined face, the other section being of T-shaped cross section and having a web to enter said bifurcated portion and a wedge-shaped head to overlap said inclined face, and securing means engageable through said bifurcated portion and web.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

ISAAC E. HARRIS.

Witnesses:
S. S. RICHARD,
Q. T. HARDTNER.