No. 846,468. PATENTED MAR. 12, 1907.

H. S. HANCOCK.

LOG SPUR ATTACHMENT FOR CONVEYER CHAINS.

APPLICATION FILED AUG. 31, 1906.

Fig. 1.

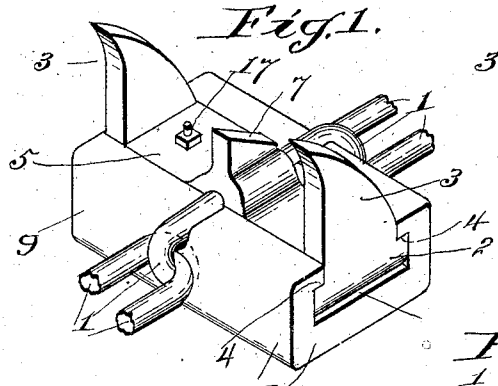


Fig. 2.

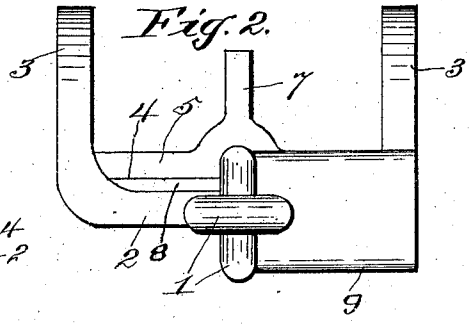


Fig. 3.

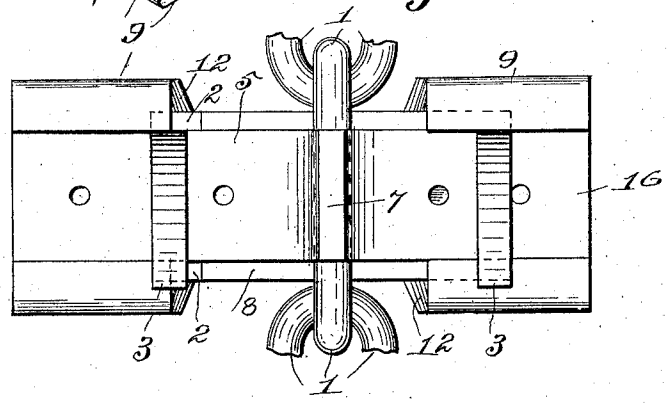


Fig. 4.

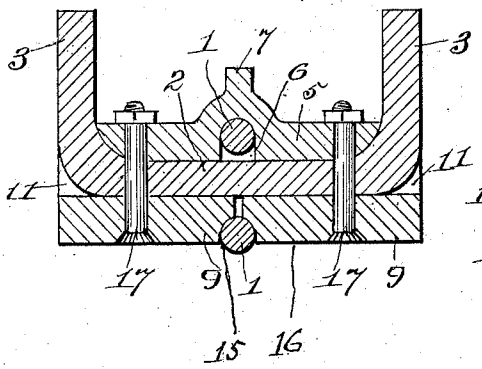
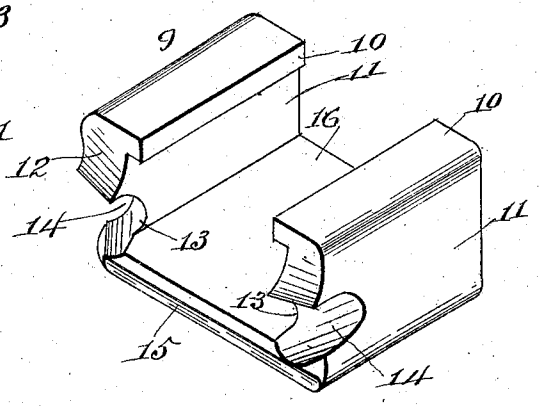


Fig. 5.



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LOG-SPUR ATTACHMENT FOR CONVEYER-CHAINS.

No. 846,468. Specification of Letters Patent. Patented March 12, 1907.

Application filed August 31, 1906. Serial No. 332,838.

To all whom it may concern:

Be it known that I, HARRISON S. HANCOCK, a citizen of the United States, residing at Newbern, in the county of Craven and State of North Carolina, have invented certain new and useful Improvements in Log-Spur Attachments for Conveyer-Chains, of which the following is a specification.

This invention relates to the class of chain conveyers known as "bull" or "jack" chains, and pertains especially to a log-spur attachment for such chains.

The object of the invention is to provide novel and peculiar means for clamping log spurs or teeth to chains for conveying logs.

A further object of the invention is to provide a plate having spurs or teeth and adapted to be inserted through a chain-link without splitting or separating the link and without separating the spurs from the plate.

A still further object of the invention is to provide a special spur-plate adapted to be passed through a chain-link and a three-part connection for clamping the plate in the link.

With these and various other objects, advantages, and improved results in view the invention consists in a plate having spurs insertible with the plate through a chain-link and a three-part clamping device, each part having link cavities or bearings therein.

In the accompanying drawings, forming part of this application, Figure 1 is a perspective view showing the application of the invention. Fig. 2 is a side view with one of the end clamps removed. Fig. 3 is a top view showing the end clamps in position to be slid against the chain-links. Fig. 4 is a central longitudinal section of the assembled parts clamped to a chain. Fig. 5 is a detail perspective view of one of the end clamps.

The same reference-numerals denote the same parts throughout the several views of the drawings.

While the invention is applicable to chains composed of links of various shapes or forms, it is for purposes of illustration shown in connection with a chain composed of round inseparable links 1, to any one of which the device is attachable.

The plate 2 has at each end a log spur or tooth 3, and said plate has side shoulders 4, and said ends are curved to enable either spur to be passed through the link 1 or the latter over the spurs and around the plate 2. The three-part clamping device comprises a clamping-cap 5, having a chain-groove 6 and a projection 7. The ends of the cap are curved to fit the curvature of the plate ends, and the cap has side shoulders 8, flush with the shoulders 4 when the cap is seated on the plate 2. The other two clamping parts 9 (which are termed "end clamps") being alike, only one will be here described in detail. It is U-shaped in cross-section and has overhanging side flanges 10 to engage the shoulders 4 and 8 in its sliding movement on the plate 2 and the cap 5. The inner edges of the sides 11 of this part have link-grooves 12 and 13, a link-cavity 14 extending from the grooves 13 into the outer face of the sides 11, and a link-groove 15 is formed in the inner edge of the base 16. The cap 5, the plate 2, and the end clamps are provided with holes for a pair of suitable bolts 17.

In assembling the parts on a link one of the spurs is inserted through the link with the latter around the center of the plate, the cap is placed with its groove on one length of the link, the end clamps are then slid into position, and the bolts hold the several parts clamped rigidly to the link.

It is obvious that the device may be attached to various parts of a chain, as desired or as occasion may require, that the parts are capable of expeditious adjustment in placing and removing the device, and that the clamping means fixes the device permanently (if desired) to the chain with the spurs always in operative position.

It will be understood that this invention is not limited or restricted to size and material nor in its application to any particular chain or chain-link.

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

1. A clamp for attaching a spur-plate to a chain-link, comprising a cap having a groove to fit the chain, end pieces slidable on the spur-plate and on the cap and having grooves and cavities fitting the links, and suitable bolts for securing the clamping parts.

2. A spur device for conveyer-chains, comprising a plate having spurs and insertible through a chain-link, a cap supported by the plate and fitting the link, and the clamping ends slidable on the cap and the plate and fitting the link and the links adjacent said link.

3. In an attachment for chain conveyers, the combination, with a plate having spurs

or teeth and adapted to be inserted with the teeth through a link of the chain, and a cap fitting the plate and the link, of a pair of end clamps slidable on the cap and plate and having faces coacting on the link and on the adjacent links.

4. In an attachment for chain conveyers, the combination, with a plate having spurs or teeth, and a cap fitting between the spurs and holding one of the link-bars, of the end clamps slidable on the cap and plate and having coacting faces to hold the other bar of the link and the ends of the adjacent links.

5. The combination, with the spur-plate having shoulders, and the cap having shoulders flush with the plate-shoulders, of the end clamps having flanges slidable on all of said shoulders, and suitable bolts extending through the cap, plate and end clamps.

In witness whereof I hereunto set my hand in the presence of two witnesses.

HARRISON S. HANCOCK.

Witnesses:
C. W. MUNGER,
W. T. BISHOP.