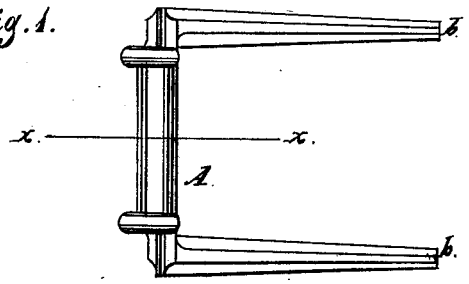
W. D. EWART.

LINKS FOR CHAINS.

No. 188,114. Patented March 6, 1877.

Fig. 1.



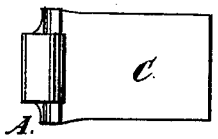
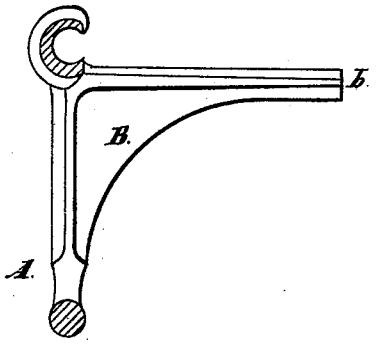


Fig. 3.

Fig. 2.



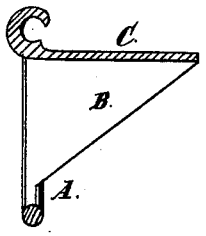


Fig. 4.

Fig. 5.

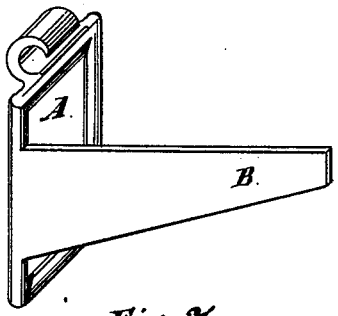
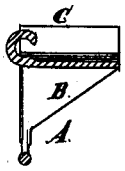


Fig. 7.

Fig. 6.



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UNITED STATES PATENT OFFICE.

WILLIAM D. EWART, OF CHICAGO, ILLINOIS, ASSIGNOR TO EWART MANUFACTURING COMPANY, OF SAME PLACE.

IMPROVEMENT IN LINKS FOR CHAINS.

Specification forming part of Letters Patent No. **188,114**, dated March 6, 1877; application filed January 15, 1876.

To all whom it may concern:

Be it known that I, WILLIAM DANA EWART, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Links for Chains, which is fully described in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 represents a link with an attachment cast thereon, adapting it for use as a carrier; Fig. 2, a sectional view of this link, taken on the line *x x*, Fig. 1; and Figs. 3, 4, 5, 6, and 7, modifications of the form shown in Fig. 1.

The object of this invention is to adapt the detachable link heretofore patented by me for use as a carrier or elevator for certain articles without the use of slats.

My invention consists in an attachment to the side bars of the link, consisting of an upright braced projection, either with or without a connecting-flange in front, cast in one piece with the link. The link, with this attachment, is adapted for use as a carrier for ice, corn, either in the ear or shelled, straw, and other like materials.

In the drawings, A represents an open detachable link, and B an upright flange or projection cast upon the side bar or bars of the link. This flange is triangular in form, the base of the triangle being along the side bar of the link, thus giving a strong brace and support to the front portion, which comes immediately in contact with the material to be elevated or carried along by means of the triangular-shaped web *b*. The link, as shown in Figs. 1 and 2, is provided with one of these flanges or projections on each side bar, and in this form is adapted for use as a carrier for blocks of ice and other like articles, a single chain being used without any slats.

For some purposes, however, when the articles to be carried are smaller, it is desirable to connect the two projections on the side bars by a flange, C, in front, as seen in Figs. 3 and 4. This form of link and attachment is intended for use in corn-shellers, for carrying the ears endwise to the shelling apparatus, by means of the front flange being brought directly behind one end of the ear. When, however, it is desired to carry forward shelled corn, the flange C, as shown in Figs. 3 and 4, will be too narrow to perform efficient work, and should be extended on each side, as shown in Figs. 5 and 6, so as to push forward before it a larger quantity of the grain. For this last purpose the link may be used in connection with a trough, or any suitable hollow casing.

A chain, with links at suitable intervals, having these projections upon the side bars, makes a cheap and efficient straw-carrier. For this purpose, however, it is not absolutely necessary to attach the flange or projection to more than one of the side bars. A link with such an attachment is represented in Fig. 7. Two or more chains provided with such links, and arranged at suitable distances from each other, may be used in the construction of a carrier for straw.

It will be seen that, although the form of the attachment is changed somewhat in the different figures of the drawings, to adapt the link to material of different kinds, the same characteristic feature is retained throughout the modifications—to wit, the triangular flange or projection on one or both of the side bars, either with or without a connecting-flange in front, of any suitable width.

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

1. A detachable link for sprocket-chains having a central open space, in combination with an upright triangular flange or projection, B, applied to one or both of the side bars, and rigidly attached thereto, in the same vertical plane as said bars, substantially as and for the purpose set forth.

2. A link for use in a chain as a carrier, consisting of a link, A, with a central open space for sprockets, triangular flanges or projections B, attached to the side bars, and a vertical flange, C, located in front of the projections B, and connecting them together, substantially as and for the purposes set forth.

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