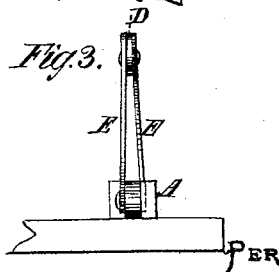
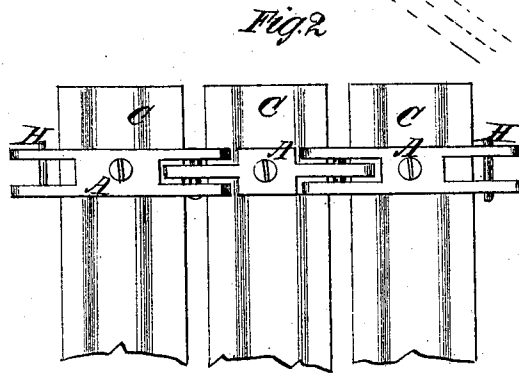
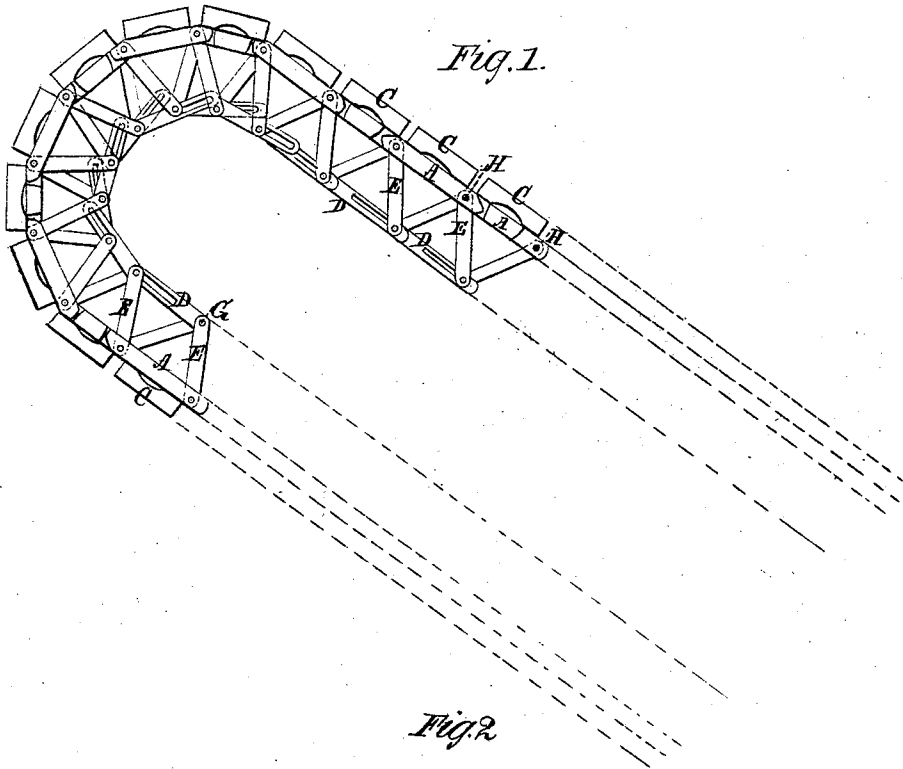


G. H. EDWARDS.

Improvement in Braced Chains.

No. 124,042

Patented Feb. 27, 1872.



Witnesses:

John Becker.
Geo. W. Mabee

Inventor:

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UNITED STATES PATENT OFFICE.

GEORGE H. EDWARDS, OF LANARK, ILLINOIS.

IMPROVEMENT IN BRACED CHAINS.

Specification forming part of Letters Patent No. 124,042, dated February 27, 1872.

Specification describing a new and Improved Braced Chain, invented by GEORGE H. EDWARDS, of Lanark, in the county of Carroll and State of Illinois.

My invention consists of a braced chain, to be used for endless carriers and the like, in which two sets of links and braces connecting them are used, one set of links being jointed together in the ordinary manner, and the others having one end slotted for the joint-pin to allow the chain to contract for going around the drums, and the two sets being connected by the braces, which are connected to the joints of each set of links in pairs by the pins which connect the links, but the braces connected at one end are connected in like manner to the other end to members of two other pairs in a manner to be diagonal to the chain of links.

Figure 1 is a partial side elevation of an inclined endless carrier in which two of my improved chains are used for connecting and carrying the bars or plates. Fig. 2 is a plan view of one of the sets of links and some of the bars of the carrier; and Fig. 3 is a partial end elevation of my improved braced chain.

Similar letters of reference indicate corresponding parts.

A represents one set of machine chain-links pivoted together in the ordinary way, and having the bars C of a carrier secured to them. D represents the other set of links, and E the braces. These links are made of flat bars, and

have a long slot, F, for the connecting-pin at one end to slide to and fro in, and the slotted end of one is connected to the end of the next, which has a hole only for the connecting-pin G, and each joint is connected to a pair of braces E by the same pin that connects them, and each pair of braces is connected to the chain of links A, one brace at each end of the link, by the connecting-bolt F thereof, all as clearly shown in the drawing, by which one chain or set of links is so braced by the other, when arranged one above the other, that the whole does not sag materially between the rollers or drums over which it works.

In using these chains for carriers in the manner herein shown, the bars C will work on the drum. I propose, however, to use them for any other purposes for which they may be applicable.

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

1. The combination of the links A and D and the braces E, substantially in the manner described.

2. The combination of the links A and D and the braces E with bars C, substantially in the manner described.

GEORGE H. EDWARDS.

Witnesses:

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