(No Model.)

C. S. WARNER.

ELEVATOR CHAIN.

No. 297,650. Patented Apr. 29, 1884.

Fig. 1.

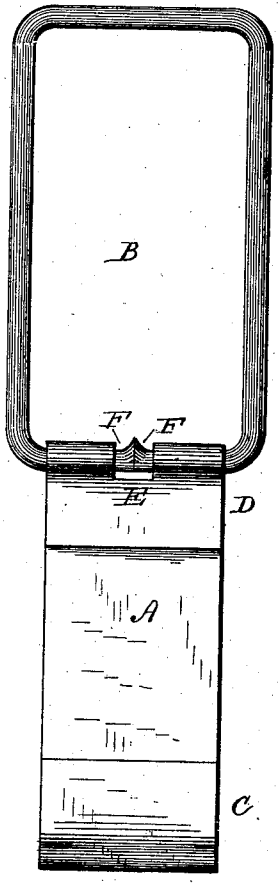


Fig. 2.

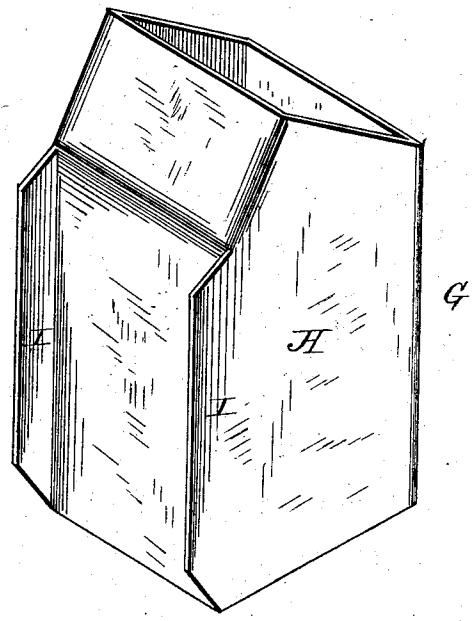
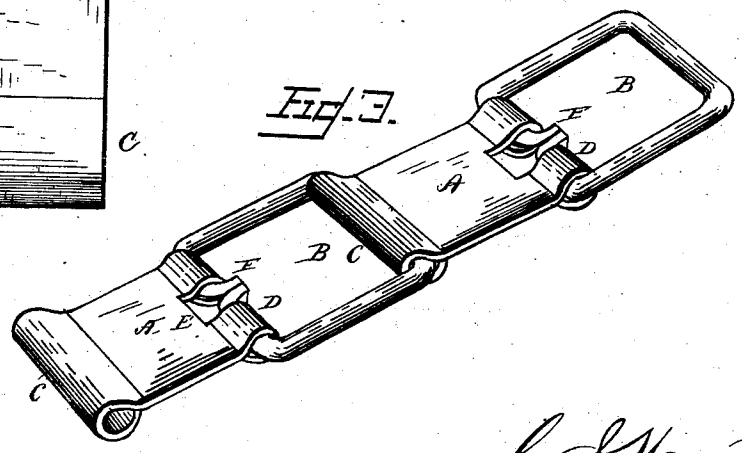


Fig. 3.



WITNESSES
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UNITED STATES PATENT OFFICE.

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ELEVATOR-CHAIN.

SPECIFICATION forming part of Letters Patent No. 297,650, dated April 29, 1884.

Application filed January 10, 1883. (No model.)

To all whom it may concern:

Be it known that I, CARLOS SHERMAN WARNER, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented a new and useful Elevator-Chain, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to certain improvements in elevator-chains of that class shown and described in Letters Patent granted to J. H. Beers and J. Ridge, dated August 2, 1881, No. 244,975; and the object of the improvement is to improve the construction, durability, and efficiency of these chains. The novelty consists in the combination and arrangement of parts, as will be hereinafter more fully described, and pointed out in the claim.

In the drawings hereto annexed, Figure 1 is a front view of a section of my improved elevator-chain. Fig. 2 is a perspective view of one of the buckets used in connection with the same; and Fig. 3 is a view in perspective of the elevator-chain, showing a section of the chain comprising four links.

The same letters refer to the same parts in all the figures.

In the drawings, A A designate the flat solid links, and B B the open links, of my improved elevator-chain. The flat links may be, and are preferably, made of a sufficiently heavy grade of sheet metal by cutting the same into strips of the required size and bending or folding the ends of the same so as to form loops C D, to receive the links B. The latter are formed of metal rods or wire by bending the same into the form of nearly-rectangular links, the free ends of the wire meeting at the center of one of the ends of said links. The looped end D of each of the links A is provided with a longitudinal slot, E, the object of which will be presently stated. The solid ends of the links B are fitted in the loops C of the links A, and the loops D of the latter receive the open or joined ends of the links B. The ends F F of the wires of which said links are formed are bent out through the slots E in the links A, as clearly shown in the drawings, thus preventing the said ends from pulling out and the links B from spreading.

G represents one of the elevator-buckets which are preferably used in connection with my improved chain. The sides H H of said bucket are constructed with rearwardly-projecting flanges I I. The buckets are to be made of such a size as to fit upon and with their backs against the flat links A of the chain, around which the flanges I I are turned and clamped, thus securing the buckets in position, and at the same time preventing the ends of the flat links from spreading.

I claim as my invention and desire to secure by Letters Patent of the United States—

In an elevator-chain, the combination of the flat links A, having their ends bent to form loops C D, the latter of which is provided with a slot, E, and the wire links B, having their solid ends fitted into the loop C of the link A and their open ends into the loops D of the links A, the ends of said links B being bent out through the slot E, substantially as shown and described.

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

CARLOS SHERMAN WARNER.

Witnesses:
W. W. ARMFIELD,
J. BULGER.