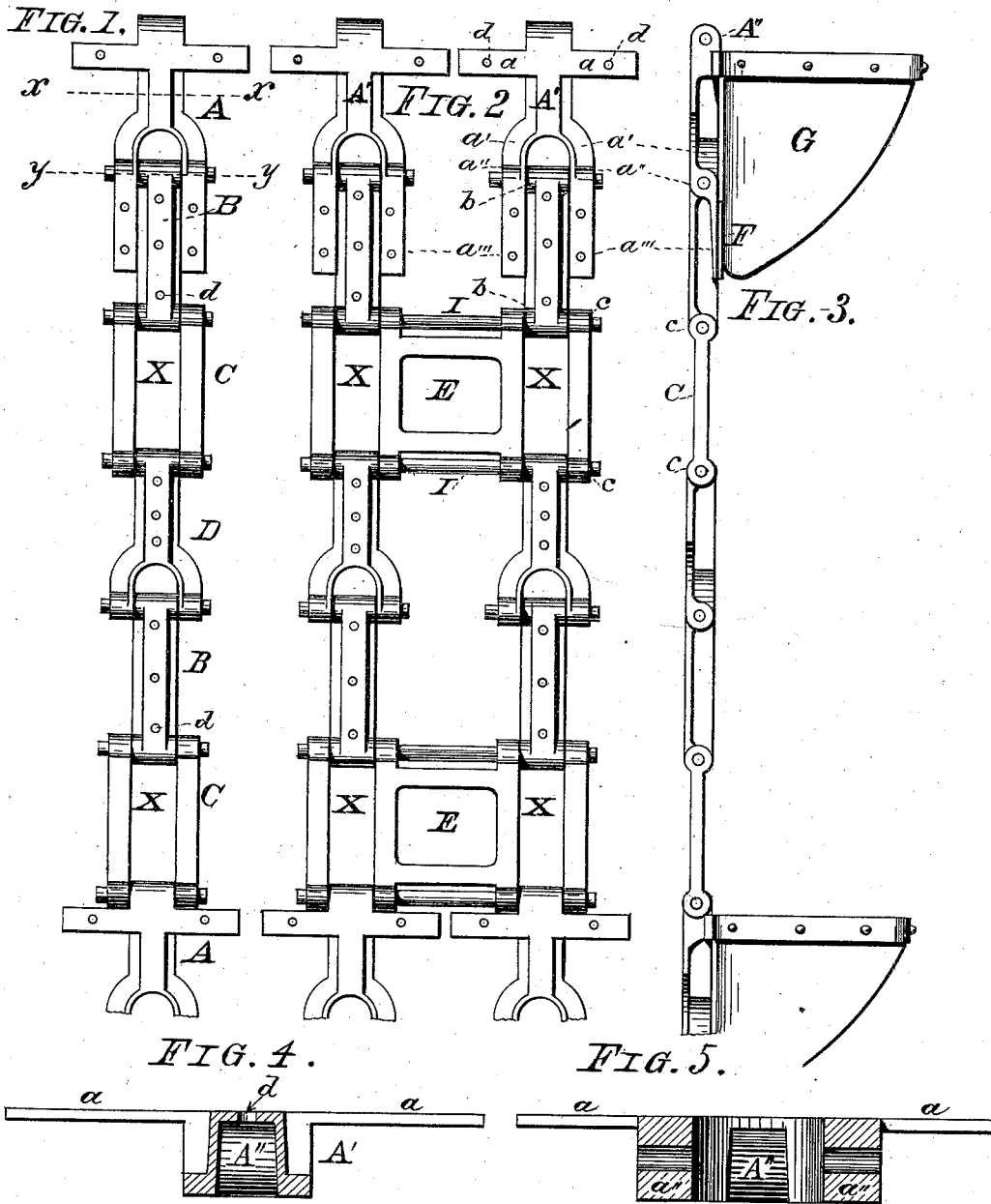


F. H. C. MEY.
Metallic Belting for Elevators, &c.
No. 203,475. Patented May 7, 1878.



Witnesses:

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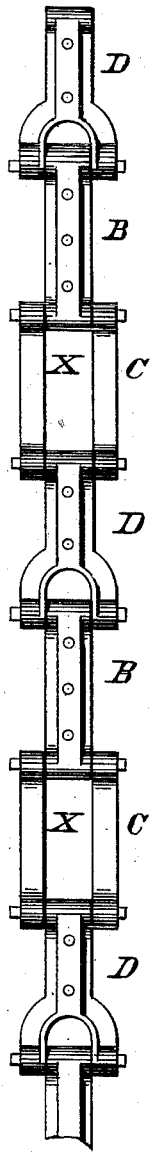


FIG. 1a.

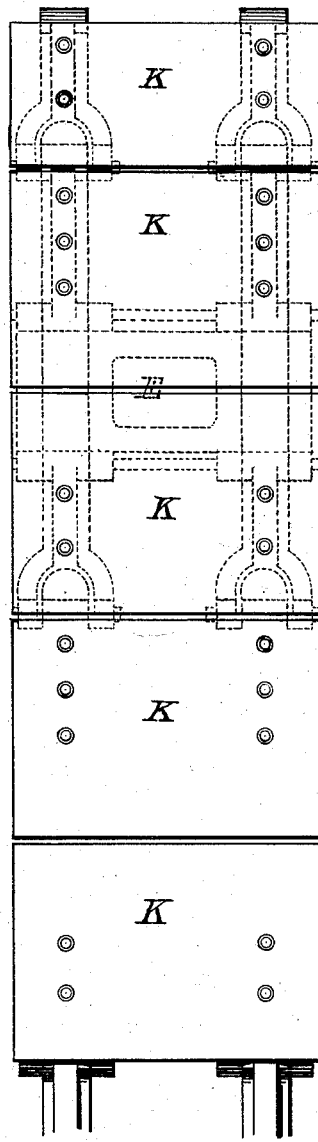


FIG. 2a.

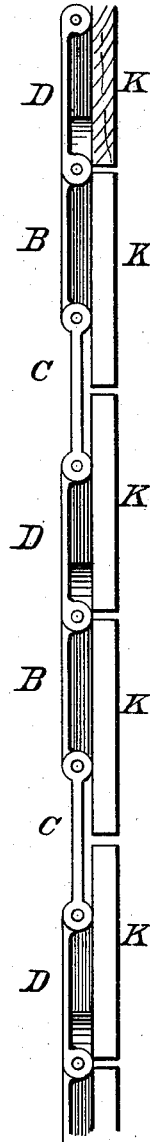


FIG. 3a.

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FRED. H. C. MEY, OF BUFFALO, NEW YORK.

IMPROVEMENT IN METALLIC BELTING FOR ELEVATORS, &c.

Specification forming part of Letters Patent No. 203,475, dated May 7, 1878; application filed February 26, 1877.

To all whom it may concern:

Be it known that I, FRED. H. C. MEY, of Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements on Metallic Belting for Elevator and Conveying Purposes; and I do hereby declare that the following description of my said invention, taken in connection with the accompanying sheets of drawings, forms a full, clear, and exact specification, which will enable others skilled in the art to which it appertains to make and use the same.

My present invention relates to improvements on metallic belting for elevating and conveying purposes; and it consists in the peculiar arrangement of parts and details of construction, as hereinafter first fully explained, and then pointed out in the claims.

In the drawings heretofore mentioned, Figure 1 is an elevation of a fragment of an elevator-belt composed of a series of my improved links. Fig. 2 is a like view of a similar belt composed of two lines of links. Fig. 3 is a side elevation. Fig. 4 is a transverse section in line *x x* of Fig. 1. Fig. 5 is a similar section in line *y y* of said Fig. 1. Fig. 1^a, Sheet 2, is an elevation of a fragment of a belt, similar to that of Fig. 1, Sheet 1. Fig. 2^a is a plan of a platform-conveyer. Fig. 3^a is a side elevation.

Like letters of reference indicate corresponding parts in all the figures.

A is the bucket-link. It consists of the body A', of an inverted U shape, having on its upper extremity an eye, A'', and dividing on its lower end into two L-shaped branches, a', having each an eye, a'', and terminating in flat tail-pieces or rests a'''.

Below the upper eye A'', which is of a width corresponding to the distance between the eyes a'', are two transversely-projecting cross-bars, a, to which are secured the usual elevator-buckets G, by means of bolts or rivets passing through apertures d in said cross-bars a.

B is the intermediate link. It is a plain connecting-link, having eyes b on both its extremities, and a transverse sectional contour, corresponding to that of the body A' of the bucket-link A. This link connects at one end with the link A, and on its other end

with the side links C, which latter links are likewise plain links, having eyes c on both extremities. These links C are placed on the sides of the intermediate links B and the eyes A' of the bucket-link A, in order to provide in the belting a series of openings, X, wherewith engage the respective sprockets of the driving pulley or wheel to impart motion to the belting. These sprockets push on the under side, respectively, the lower end of the intermediate links B, and these are therefore made strong enough to sustain such pressure as may be brought to bear thereon.

The body A', as well as that of the link B, are, as heretofore described, of an inverted U shape, or recessed on their lower sides, so as to admit the bolt heads or nuts within, and to present a perfectly flush and even surface on the under side of the belting.

D is a substitute link for the bucket-link A, it being in all respects identical with that, except that it has no cross-bar a nor tail-pieces a'''. This link is placed into the belting instead of the bucket-link whenever these bucket-links (were they arranged in their order) would be too close together. In this case every second one of the repeating series will contain a bucket-link, while the intermediate series will be provided with the substitute link, which, should the capacity of a belt be required to be increased, may be readily removed and the bucket-link substituted, and the capacity of the belt thereby doubled.

The links heretofore described form a series, and these are repeated as often as is necessary to produce an elevator-belt of the desired length.

It is obvious that my belting may be used for all the various purposes of conveying, elevating, &c. Thus, in addition to its adaptation as an elevator-belt, it may be used as a platform-conveyer by substituting a platform, K, for the bucket G, as illustrated in the various figures of Sheet 2. In this case I shall, however, dispense with the link A and use its substitute, the link D, so that the repeating series are composed of the links D, C, and B, and secure the platform K to the respective links by means of bolts passing through the apertures D in the bodies of said links.

All the belt-links are produced complete in

the process of casting of gray iron and subsequent annealing, so that the eyes, which are at once cast in the links, are all solid. This renders the belt considerably stronger, cheaper, and less liable to stretch than those of any other construction.

Having thus fully described my invention, I claim—

1. In metallic belting, the link A, composed of the inverted U-shaped body A', top eye A'', cross-bar *a*, branches *a'* with eyes *a''*, and the tail-pieces *a'''*, substantially as and for the purpose described.

2. In metallic belting, the link A having two forks, *a'*, each provided with an eye, *a''*, and a tail-piece, *a'''*, as and for the object stated.

3. In metallic belting, a link having its body formed in an inverted U shape, and provided with eyes for attachment, substantially as and for the purpose specified.

4. The combination, with the link A, of the

links B and C, with or without the substitute link D, as and for the use and purpose stated.

5. In metallic belting, a link having a tail-piece or rest projecting beyond the point of attachment of the intermediate links, as specified.

6. A bucket-link having the cross-bar *a* formed in one piece with the body of the link, and raised above the base-line, as and for the object stated.

7. A bucket-link having the cross-bar *a* and one or more bodies, A', provided with solid eyes, all formed entire in the process of casting, as specified.

In testimony that I claim the foregoing as my invention I have hereto set my hand and affixed my seal in the presence of two subscribing witnesses.

FRED. H. C. MEY. [L. S.]

Attest:

MICHAEL J. STARK,
FRANK HIRSCH.