

(No Model.)

D. S. STEWART.
LINK BELT.

No. 484,827.

Patented Oct. 25, 1892.

Fig. 1.

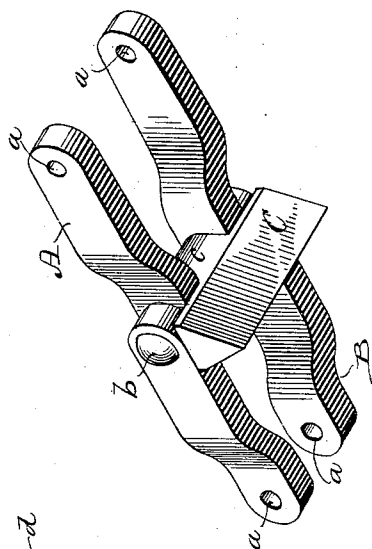


Fig. 3.

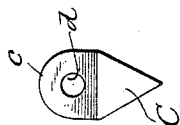


Fig. 2.

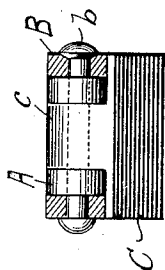
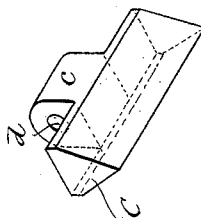


Fig. 4.



Witnesses
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DAVID S. STEWART, OF MORRIS, WISCONSIN.

LINK BELT.

SPECIFICATION forming part of Letters Patent No. 484,827, dated October 25, 1892.

Application filed December 21, 1891. Serial No. 415,711. (No model.)

To all whom it may concern:

Be it known that I, DAVID S. STEWART, a citizen of the United States, and a resident of Morris, in the county of Shawano, and in the State of Wisconsin, have invented certain new and useful Improvements in Link Belts; and I do hereby declare that the following is a full, clear, and exact description thereof.

The main object of my invention is to provide a link belt having a traction-block loosely arranged on each of its link-connecting bolts, said block being so constructed and disposed as to guard against binding with the link ends and against unnecessary wear.

My invention therefore consists in certain peculiar and novel features of construction and arrangement of parts to be hereinafter described, with reference to the accompanying drawings, and subsequently claimed.

In the drawings, Figure 1 represents a perspective view of a portion of my improved link belt; Fig. 2, an end view of the same with one of the links in section for the purpose of better illustration; Fig. 3, an end view of the traction-block forming part of the link belt shown in the preceding figures, and Fig. 4 a perspective view of said block.

Referring by letter to the drawings, A B represent the side bars of two of the links of which my belt is composed, said side bars being provided at their ends with openings *a* for engagement with suitable bolts *b*, employed to complete and join said links. As shown in Figs. 1 and 3, each pair of the said side bars are offset, with their ends brought nearer together at one end than at the other end, so that the inner ends of one pair may be just within the outer ends of the next pair at the point of intersection with the said bolts *b* and the transverse portions or blocks C next described.

C represents a traction-block, preferably of prismatic shape, so as to obviate any liability of slippage, and extending upward from the upper face of the block and at right angles thereto is a projection *c*, having an opening *d* and rounded top. The block projection *c* is of such a length and so arranged as to fit snugly intermediate of the inner ends of the link-bars A, the opening *d* in said block projection being loosely engaged with one of the bolts *b* and the upper face of the block C in

contact with the lower sides of the inner ends of the link-bars A B, as shown in Figs. 1 and 2.

By constructing and arranging the block C, together with its right-angular projection *c*, as described said block is guarded against motion transverse of the belt and against binding with the link ends when said belt is running on a curved surface, these features being essential to the success of my invention.

Although I have shown and described a prismatic block in connection with my link belt, I do not wish to be understood as limiting myself thereto, as a different-shaped block or device may be substituted therefor, if found desirable, without departure from the spirit of my invention. I also wish it understood that although my invention is more particularly designed as a traction device I may substitute buckets or other devices (commonly employed with link belts) for the blocks, said buckets or other devices being provided with projections similar to the one *c* above described.

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

1. A link belt comprising a series of side bars arranged in pairs and provided at their ends with openings, each pair of side bars being brought nearer together at one end than at the other, so as to fit within the ends of the next pair of side bars in the series, in combination with independent transverse portions extending over the said side bars and having perforated projections fitting between the inner side-bar ends, and bolts extending through said perforations and uniting the said projections and side bars, substantially as set forth.

2. A link belt comprising a series of side bars arranged in pairs and loosely linked to transverse portions having flat surfaces bearing against the united ends of said side bars and sharp longitudinal traction edges, substantially as set forth.

3. A link belt comprising a series of side bars arranged in pairs and the adjacent ends of each pair offset to come within the adjacent ends of the next pair of the series, in combination with transverse portions having projections fitting between the inner ends of

each pair of side bars, flat portions bearing against the ends of the side bars, and sharp longitudinal traction edges, and bolts passing through openings in the said side-bar ends and
5 intermediate projections, whereby the said parts are all loosely linked together, substantially as set forth.

4. A link belt provided with traction-blocks and right-angular projections extending from
10 the blocks and having openings therethrough, in combination with link-bars having openings in their ends in line with those in said

projections and bolts for connecting said projections with the link-bars of said belt, substantially as set forth.

In testimony that I claim the foregoing I
15 have hereunto set my hand, at Morris, in the county of Shawano and State of Wisconsin, in the presence of two witnesses.

DAVID S. STEWART.

Witnesses:

D. E. WESCOTT,
A. C. WEBER.