(No Model.)

W. J. PATTERSON.

CHAIN LINK.

No. 556,639. Patented Mar. 17, 1896.

Fig. 1.

Fig. 2.

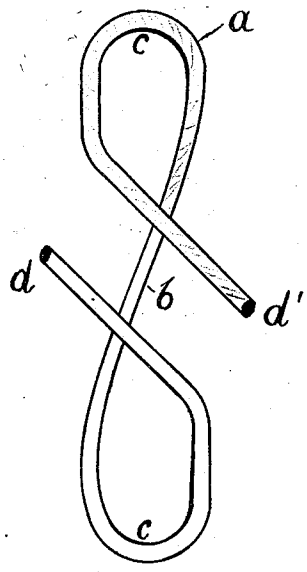
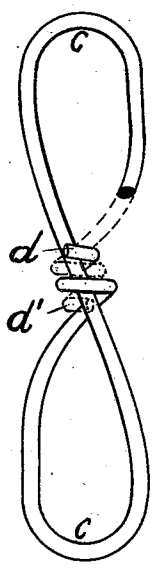


Fig. 3.



Witnesses.
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UNITED STATES PATENT OFFICE.

WILLIAM J. PATTERSON, OF BEAVER FALLS, PENNSYLVANIA.

CHAIN-LINK.

SPECIFICATION forming part of Letters Patent No. 556,639, dated March 17, 1896.

Application filed July 9, 1895. Serial No. 555,396. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM J. PATTERSON, a resident of Beaver Falls, in the county of Beaver and State of Pennsylvania, have invented a new and useful Improvement in Chain-Links; and I do hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to chain-links, its object being to provide a link in which the ends thereof are so interlocked as to preclude their disengagement when subjected to a pulling strain.

My invention comprises, generally stated, a chain-link formed of a central strand and loops at the ends, the ends of the wire being wound around the central strand in opposite directions and alternating with each other, whereby the coiled ends are interlocked, so that when subjected to a heavy pulling strain the coils cannot be pulled apart.

To enable others skilled in the art to make and use my invention I will describe the same more fully, referring to the accompanying drawings, in which—

Figure 1 is a view of a portion of a chain made up of my improved links. Fig. 2 is a view of my improved link before the ends have been coiled around the central strand. Fig. 3 is a view of one of the links, showing one of the loops and coils in dotted lines.

Like letters indicate like parts in each of the figures.

The link may be formed of wire of suitable thickness or other flexible metal which is first cut into suitable lengths. The piece of wire *a* is first bent in any suitable manner to form the central strand *b* and the loops *c*, the ends *d d'* being extended in opposite directions. The end *d* is then coiled around the central strand *b*, said end being so coiled as to leave sufficient space for the coils of the other end *d'* to intervene. The end *d'* is accordingly then wound around the central strand *b* in the opposite directions, occupying the space left between the coils of the end *d*. In this manner the coils of the ends alternate with each other and are interlocked. In this manner also the coils of the ends are prevented from sliding over the central strand in case the link is subjected to a severe pulling strain. The coils being interlocked it is impossible for the coils to have any movement on the central strand.

I am aware that links have been formed by winding the ends around a central strand, but the coils of the ends were not interlocked to prevent the sliding of the coils on the central strand.

What I claim as my invention, and desire to secure by Letters Patent, is—

A chain-link formed of a central strand and loops at the ends, one of the ends of the metal being wound around the central strand, leaving a space within which the other end is wound, whereby the coils alternate with each other and are interlocked, substantially as set forth.

In testimony whereof I, the said WILLIAM J. PATTERSON, have hereunto set my hand.

WILLIAM J. PATTERSON.

Witnesses:

J. H. HAMILTON,

JOS. F. RYAN.