No. 717,562. PATENTED JAN. 6, 1903.

H. L. FERRIS.

WELDLESS LINK.

APPLICATION FILED JUNE 28, 1902.

NO MODEL.

Fig. 1.

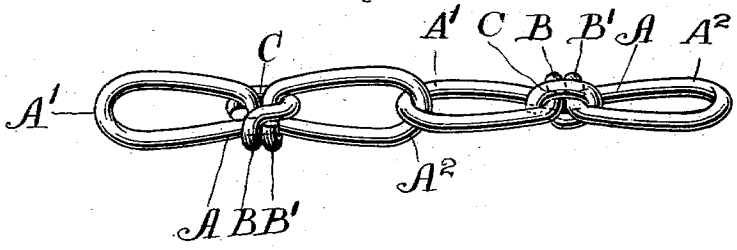
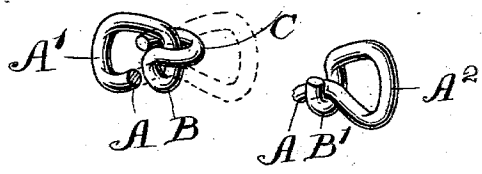


Fig. 2.



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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

HENRY L. FERRIS, OF HARVARD, ILLINOIS, ASSIGNOR TO HUNT, HELM, FERRIS & CO., OF HARVARD, ILLINOIS, A CORPORATION OF ILLINOIS.

WELDLESS LINK.

SPECIFICATION forming part of Letters Patent No. 717,562, dated January 6, 1903.

Application filed June 28, 1902. Serial No. 113,631. (No model.)

To all whom it may concern:

Be it known that I, HENRY L. FERRIS, a citizen of the United States of America, residing at Harvard, in the county of McHenry and State of Illinois, have invented certain new and useful Improvements in Weldless Links, of which the following is a specification.

My invention relates to certain new and useful improvements in weldless links; and its object is to produce a link of this sort which shall be handsome in appearance and cheaper to construct than the links hitherto in use, while at the same time possessing all the advantages of other links in strength and lightness.

To these ends my invention consists in certain novel features of construction, which are clearly illustrated in the accompanying drawings and described in this specification.

In the drawings, Figure 1 is a view of my improved links as they appear in an ordinary chain, and Fig. 2 is a view of one link broken in two in order to show the curves thereof.

The wire of which the chain is composed is of the usual type of which chains are constructed, the drawings being approximately full sized. The wire after being cut off to the right length by any suitable means is bent back upon itself, forming two major bends or loops A' A^2, the main strand of the wire being designated by the letter A and the ends of the wires coming together at the center of the link. The two ends are then carried toward the main strand A and around it, forming small loops B B'. The loop B is then continued upward and into another loop C, which encircles the inner ends of both the loops A' A^2, binding them firmly together. This construction is clearly shown in the drawings and will be readily understood by reference thereto.

It will be seen that this construction gives a very handsome and a very symmetrical link. Furthermore, owing to certain matters connected with the machine which constructs it it can be made somewhat cheaper than can the chains at present on the market.

I claim as new and desire to secure by Letters Patent—

1. The weldless link comprising the two loops, A', A^2, recurved upon the main strand of the link, the ends of said loops turned toward said main strand and carried about the main strand in two other loops, B, B', and one of said loops, B, B', continued to encircle the end of one of the main loops; substantially as described.

2. The weldless link comprising two loops recurved upon the main strand of the link, the ends of said loops carried back toward said main strand and about the same in two smaller loops, and one of said smaller loops continued to form a third loop encircling the adjacent wires of both of said main loops; substantially as described.

3. The weldless link comprising the two loops, A', A^2, recurved upon the main strand of the link, the ends of the loops turned toward said main strand, one of said loops being carried about said main strand in a loop, B, and thence around adjacent wires of both of said main loops; substantially as described.

In witness whereof I have hereunto set my hand, at Chicago, in the county of Cook and State of Illinois, this 2d day of May, A. D. 1902.

HENRY L. FERRIS.

Witnesses:
J. C. BLAKE,
L. EUGENE NORTON.