

(No Model.)

E. F. NORTEMANN.
Ornamental Chain.

No. 240,168.

Patented April 12, 1881.

Fig. 1.

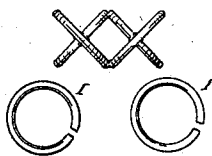


Fig. 2.



Fig. 3.

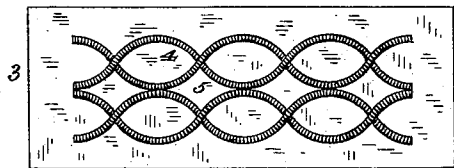


Fig. 4.

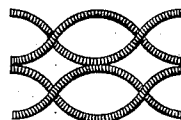


Fig. 5.



Fig. 6.

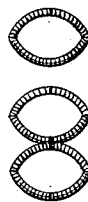


Fig. 7.

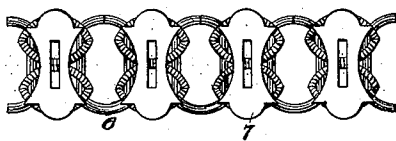
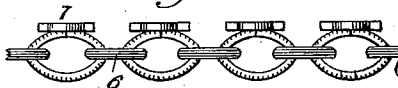


Fig. 8.



Witnesses:
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ERNEST F. NORTEMANN, OF ATTLEBOROUGH, MASSACHUSETTS.

ORNAMENTAL CHAIN.

SPECIFICATION forming part of Letters Patent No. 240,168, dated April 12, 1881.

Application filed February 2, 1881. (No model.)

To all whom it may concern:

Be it known that I, ERNEST F. NORTEMANN, of Attleborough, in the county of Bristol and State of Massachusetts, have invented a new and useful Improvement in Ornamental Chains; and I do hereby declare that the following is a full, clear, and exact description of the same.

My invention relates to an improvement in the manufacture of ornamental chains, by which the cost, expense, and labor required in production are materially lessened; and it consists, first, in the improved process of forming what are known as "double links;" and, second, in an improved chain constructed of such links, in the manner fully hereinafter described.

In the drawings, Figures 1 and 2 are views of this kind of link as heretofore constructed. Fig. 3 is a view of a blank; Fig. 4, a portion from which a single link is formed. Fig. 5 shows this portion partially bent into shape. Fig. 6 shows a completed link; Fig. 7, a front view of part of a chain; Fig. 8, a side view of the same.

In constructing chains of the form shown heretofore it has been usual to take strips of wire and bend them into rings 1 1, as shown in Fig. 1. These rings were then soldered together, forming the double link shown in Fig. 2, on which link there are six points of contact which must be united by solder.

By my invention the labor and trouble of soldering are entirely avoided. No solder is required in constructing the link, and instead of being formed of separate lengths of bent wire my link is constructed from a single piece of metal.

In the process of making my improved chain-links I take a blank, 3, Fig. 3, of gold, silver, or baser metal, and by means of a die or roller impress upon the blank the configuration of a link—in the form, for instance, as exhibited in Fig. 3. The parts 4 and 5 between the raised portions are then cut away, leaving the part from which the link is to be formed in the shape shown in Fig. 4. By any proper means known to all metal-workers this portion is bent into the form shown in Fig. 6, it being shown in Fig. 5 as partially bent into shape.

The parts 4 and 5 may be both cut away, as shown in Fig. 4, or only the part 4 may be removed and the part 5 retained, and vice versa.

If desired, the adjoining ends of the link may be soldered; but it is not essential, and usually may be dispensed with.

The chain, composed mainly of links constructed in the manner just described, is shown in Figs. 7 and 8, where the links are joined by a connecting-link, 6, of ordinary construction. On one side of the chain is an ornamental plate, 7, which is soldered to the face of each link at the point where the bent ends are in contact, and the plate may be made to cover the joint, and thus secure the ends firmly. Where the ornamental plate is not used, as before stated, the ends of the double links may be soldered together, or not, as desired.

By this simple process a chain of very handsome and attractive appearance, composed of double links, is produced at much less cost than has hitherto been possible.

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

1. The process of constructing double links for ornamental chains, consisting in first cutting out from a blank the flat link shown in Fig. 4 and bending the same into tubular form.

2. The improved chain, consisting of the tubular double links struck out from a blank and bent into the form shown, and a connecting-link, 6.

3. The described chain, consisting of links formed from a single piece of metal and bent into tubular shape, in combination with a face-plate soldered to such tubular link at the point where its bent ends join, whereby the adjoining ends are held securely in contact.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ERNEST F. NORTEMANN.

Witnesses:

JAMES W. RILEY,
FR. MILLER.