

I. LINDSLEY.

Improvement in the Manufacture of Ornamental Chains.

No. 124,837.

Patented March 19, 1872.

Fig. 1.

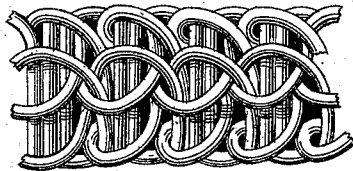


Fig. 2.

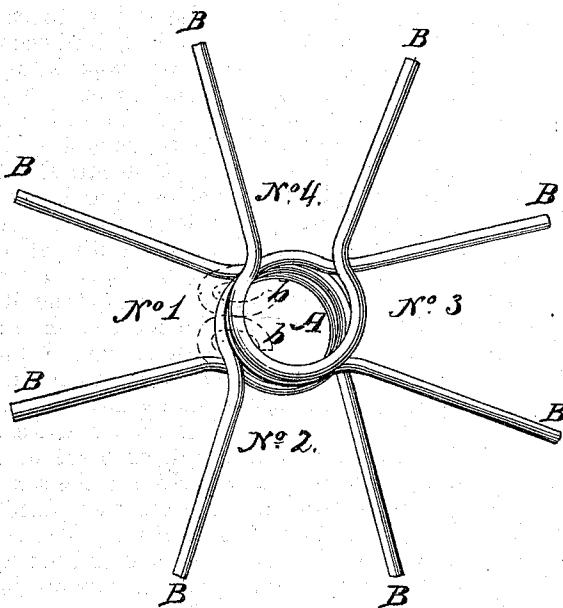
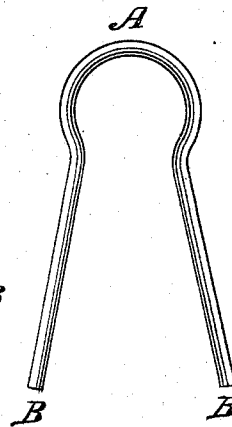


Fig. 3.



Witnesses:

George H. Stanley,
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Inventor:

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UNITED STATES PATENT OFFICE.

ISAAC LINDSLEY, OF PAWTUCKET, RHODE ISLAND.

IMPROVEMENT IN THE CONSTRUCTION OF ORNAMENTAL CHAINS.

Specification forming part of Letters Patent No. 124,837, dated March 19, 1872.

I, ISAAC LINDSLEY, of Pawtucket, in the county of Providence and State of Rhode Island, &c., have invented certain Improvements in the Manufacture of Jewelers' and other Chains. Of my said improved chain the following is a specification:

My said invention relates to the making of jewelers' and other chains of links or pieces of wire, shaped substantially as shown in Fig. 3 of the annexed drawing, and so constructed that it possesses the valuable properties of a soldered chain, without any soldering in any part of it; my said improvement being such that a chain of this kind may be much more rapidly and cheaply made than any soldered wire chain, or chain of welded links.

Description of Drawing.

Figure 1 shows completed chain. Fig. 2 shows a method of making or constructing the chain, the links or pieces of wire being numbered in the order in which they are referred to in the following general description. Fig. 3 shows the peculiarly-shaped links or pieces of wire of which my said improved chain is made, and of which A is the circular end, and B B are the cut ends.

General Description.

The construction of my said improved chain may be as follows: One of the aforesaid links or pieces of wire, No. 1, in Fig. 2, being placed at the bottom, another, No. 2, is placed directly over it, the circular end A of No. 2 immediately covering the circular end of No. 1, and the cut ends B B of No. 2 standing at a right angle with the cut ends of No. 1. A third link or piece of wire, No. 3, is placed over No. 2, and a fourth, No. 4, over No. 3, in the same manner, relatively, that No. 2 was placed over No. 1. By this arrangement of the circular ends A, an internal or cylindrical space is formed, the walls or sides of which are built of the individual edges of the said circular ends A. This cylindrical or internal space so formed, substantially as aforesaid, is a valuable and important feature of the chain, as it affords a very suitable and convenient place for the reception of the cut ends B B, when they are bent over the sides of and clinched into the said internal or cylindrical space, as hereinafter described; and it also effectually

prevents the said cut ends B B from being seen from the exterior of the chain when completed. Said cut ends B B may be left of such a length that, when they are bent over the side of and clinched into the cylindrical or internal space aforesaid, as hereinafter described, it would be impossible for them to return, because of the resistance encountered from the opposite side or wall of this said internal or cylindrical space, and thus there would be no possibility of parting the chain asunder when in use until the limit of the breaking weight of the wire is reached. The cut ends B B of No. 1, Fig. 2, are now curled or bent upward over the outer edges of and downward into the said cylindrical or internal spaces so formed, substantially as aforesaid. A fifth link or piece of wire is then placed over the fourth, No. 4, in such a manner that its circular end A shall cover the circular ends of those underneath, while its cut ends B B shall occupy the same place, relatively, that was occupied by the cut ends B B of No. 1 before they were carried over the sides of and into the said internal or cylindrical space, as aforesaid. The cut ends B B of No. 2 are then curled or turned upward and over the sides of, and downward into the said cylindrical space, in the same manner as those of No. 1. A sixth link or piece of wire is then added, and placed over No. 2 in the same relative manner that the fifth was placed over No. 1. The cut ends B B of No. 3 are then curled or turned upward and over the sides of, and downward into the internal or cylindrical space aforesaid, in the same way that the cut ends of No. 1 and No. 2 were treated. A seventh link or piece of wire is added, and placed over No. 3 in the same manner, relatively, as the sixth was placed over No. 2, and the fifth over No. 1. The cut ends B B of No. 4 are also turned or bent upward and over the side of, and downward into the said cylindrical or internal space, in the same way as those of No. 1, No. 2, and No. 3. An eighth link or piece of wire is then added, and placed over No. 4 in the same relative manner that the seventh was placed over No. 3, the sixth over No. 2, and the fifth over No. 1. This, when the circle of links or pieces of wire is composed of four, as shown in Fig. 2, completes a round or bout, and the process may be continued *ad libitum*, or until the

chain has attained the desired length; always supplying an additional link or piece of wire whenever and as often as the cut ends B B of a wire preceding it at certain intervals are turned over the sides of and into the said internal or cylindrical space, substantially as aforesaid.

Different patterns of chains may be made in substantially the same manner, by varying or modifying the shape of the links or pieces of wire shown in Fig. 3, thereby giving the chain other forms and shapes than the circular. Different patterns may also be made by varying or modifying the order in which the said cut ends B B are turned or bent over the sides of and into the said cylindrical or internal space so formed, as aforesaid. And the patterns may be still further changed by increasing or diminishing the number of the said links or pieces of wire over which the said cut ends B B are turned or bent when carried over

the sides of and into the internal or cylindrical space aforesaid, in the manner and for the purposes substantially as described. When completed, the said chain and the different patterns thereof are to be subjected to the usual limbering and finishing process, according to the purposes for which it or they are to be used when finished.

Claims.

I claim as my invention—

1. A chain, made or constructed substantially as described.

2. The method of making or constructing a chain, substantially as set forth in my foregoing description.

ISAAC LINDSLEY.

Witnesses:

GEORGE H. STANLEY,
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