

J. L. HEELEY.
Ornamental Chain-Link.

No. 197,364.

Patented Nov. 20, 1877.

Fig. 1.

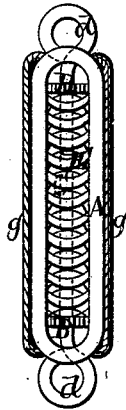


Fig. 2.

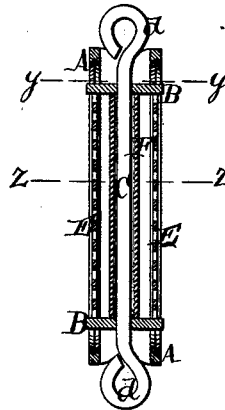


Fig. 3.



Fig. 4.



Fig. 5.



Witnesses.

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TO DAVIDSON BROTHERS, OF NEW YORK, N. Y.

IMPROVEMENT IN ORNAMENTAL CHAIN-LINKS.

Specification forming part of Letters Patent No. 197,364, dated November 20, 1877; application filed
October 5, 1877.

To all whom it may concern:

Be it known that I, JAMES H. HEELEY, of Attleborough Falls, in the county of Bristol and State of Massachusetts, have invented a new and useful Improvement in Ornamental Chains, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 represents a side view of a chain-link made according to this invention. Fig. 2 is a longitudinal section thereof in the plane xx , Fig. 3. Fig. 3 is a plan or top view. Fig. 4 is a cross-section in the plane yy , Fig. 2. Fig. 5 is a like section in the plane zz , Fig. 2.

Similar letters indicate corresponding parts.

My improvement relates to the construction of links for ornamental chains; and consists in the combination of three or more loops or rings, and two cross-heads adapted to receive and retain said rings or loops, thus forming a link of triangular or polygonal cross-section; also, in the combination of two cross-heads provided with grooves or tongues at their edges, two or more loops or rings adapted to engage with said grooves or tongues, and a rod which extends through holes in said cross-heads, and is bent at its opposite ends, so that a simple and effective means of fastening the loops or rings to the cross-heads is obtained, while, moreover, by bending said rod it is adapted to be connected to adjacent links in a chain, and at the same time is securely held in place; further, in the combination of two cross-heads, provided with tongues at their edges, two or more loops or rings provided with grooves to receive said tongues of the cross-heads, and filling-pieces adapted to engage with said grooves, so that the latter serve not only to fasten the loops or rings to the cross-heads, but also to hold the filling-pieces within the loops or rings; further, in the combination of two cross-heads, provided with grooves or tongues at their edges, two or more loops or rings adapted to engage with said grooves or tongues, and a supporting-piece fitted between the cross-heads, so that by said supporting-piece the cross-heads are held apart from each other.

In the drawings, the letter A designates the loops or rings of my link, and B are the two cross-heads, said loops or rings being made of

oblong shape, and the cross-heads being located near the opposite ends thereof. The cross-heads B are provided with tongues a , and in the inner part of the rings A are formed longitudinal grooves b , which are of such size and shape that the tongues a can be inserted therein. Said tongues a are inserted in the grooves b , in the manner shown in Fig. 4, and by this means the rings A and the cross-heads B are firmly connected together.

The letter C designates a rod, which extends through holes in the cross-heads B, and which is bent at its ends and exterior of the ends of the loops or rings A, to form loops or rings d . This rod C is intended to form a means of connecting together the different links in a chain, this object being accomplished through the loops d , while these loops, moreover, serve to prevent the rod from shifting. I prefer to make the rod C square in cross-section, and to pass the same through holes of corresponding shape in the cross-heads B, for the purpose of preventing said rod from turning.

The spaces within the loops or rings A and between the two cross-heads B are occupied by filling-pieces E, which may have various ornamental shapes, and the edges of which are inserted in the grooves b , said filling-pieces being thereby held in position. The grooves b thus serve the double purpose of connecting together the rings A and cross-heads B, and of holding the filling-pieces E. Said grooves b , moreover, permit of fastening the parts without the use of solder, as heretofore. In order to insert the tongues a of the rings or loops A and the filling-piece E in the grooves b , the parts are simply brought in the proper position, and then the rings or loops A are pressed together.

Between the two cross-heads B, and parallel to the rings or loops A, is placed what I term a "supporting-piece," F, the object of which is to hold said cross-heads the proper distance apart from each other. In the example shown said supporting-piece F has a tubular form, and embraces the rod C; but it may be made solid if used without said rod. It can also be made in more than one piece, if desired, or it can be made in one piece with the cross-heads.

In the example shown I have used three

loops or rings, A, so as to form a link of triangular cross-section; but, if desired, a greater or less number of such rings or loops may be used. The two cross-heads B, moreover, may be made in one piece without departure from my invention. In the angles formed between the edges of the loops or rings A are placed bands *g*, for the purpose of ornamentation.

It will be observed that all the parts of the link above described can be completed previously to their being put together, and hence I am enabled to impart to the same the best possible finish.

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

1. The combination, in a chain-link, of three or more loops, with two cross-heads, having on their outer edges tongues or grooves, by means of which said loops are attached thereto, so as to form links of triangular or polygonal cross-section, substantially as set forth.

2. The combination, in a chain-link, of two cross-heads, provided with suitable grooves or tongues, two or more loops or rings, adapted to engage with said grooves or tongues in the cross-heads, and a rod which extends through

holes in the cross-heads, and is provided with loops or rings at its ends, substantially as and for the purpose set forth.

3. The combination, in a chain-link, of two cross-heads, provided with suitable tongues, two or more loops or rings, provided with grooves to engage with the tongues in the cross-heads, and filling-pieces adapted to engage with the grooves in the loops or rings, substantially as shown and described.

4. The combination, with two flat approximately circular disks, having notches or tongues on their peripheries, and each a centrally-attached loop or hook, of three or more loops, secured to the peripheries of said disks by means of said notches or tongues, so as to connect the same and form links of triangular or polygonal cross-section, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 26th day of February, 1877.

J. L. HEELEY. [L. S.]

Witnesses:

HENRY A. STREETER,
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