J. L. HEELEY.

Ornamental Chain-Link.

No. 218,963. Patented Aug. 26, 1879.

Fig. 1.

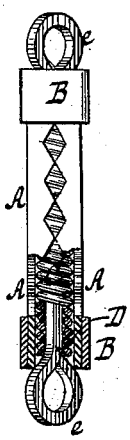
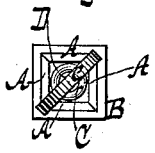


Fig. 2.

Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN ORNAMENTAL CHAIN-LINKS.

Specification forming part of Letters Patent No. **218,963**, dated August 26, 1879; application filed July 10, 1879.

To all whom it may concern:

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

Figure 1 shows my link partly in side view and partly in section. Fig. 2 is a cross-section thereof. Fig. 3 is an end view of the same.

Similar letters indicate corresponding parts.

My invention relates to the construction of box-links for vest or other chains, with the view to dispense with solder, and will first be described with reference to the drawings, and then pointed out in the claims.

The parts of my link are side plates, A, end collars, B, an inner cylinder, C, and central bar, D.

The side plates, A, are ornamentally perforated; but they may, if desired, be left solid, and left plain or engraved in any desired manner. The longitudinal edges of the plates A are beveled or mitered, and they are put together edge to edge, thereby forming a box, in which position they are held by the collars B. These collars B are fitted on the box formed by the plates A, and are situated at the respective ends of the link, as shown.

In this example four of the side plates, A, are used, each having a flat cross-section, the whole forming a square box; but, if desired, the number thereof may be increased or diminished, the box taking a corresponding shape, and by bending the plates crosswise I am enabled to employ as low as two plates. In some cases the plates A are twisted spirally between their ends.

The cylinder C is fitted into the space between the plates A, and is preferably formed of a wire coil. The primary function of this cylinder C is to center the bar D, which latter passes through the link, and is bent at each end to form coupling-loops *e*, that impinge on the ends of the plates A, and thus prevent their longitudinal displacement.

When the plates A are perforated, the cylinder C is visible through their perforations, and a very beautiful effect is produced. The cylinder C also has the effect of sustaining the plates A in their proper relative positions, and when it is used the longitudinal edges of the plates may be left square, the edge of one plate being, in that case, brought up to or against the side of another.

When the edges of the plates A are mitered, and more than two plates are used, the loops *e* are arranged at or over their joints, as shown in Fig. 3, thereby impinging upon each of the plates.

It will be seen that the link above described is destitute of solder, one result of which is, that labor is saved in the construction of the article, and another that the parts may be finished separately before being put together, so that different plating may be used in the same link.

It may be remarked that by shaping the ends of the box formed by the side plates, A, accordingly, a different shape may be given to the collars B than the cross-section of the intermediate portion of the box. One or more of the side plates, A, moreover, may be provided with swells or elevations to prevent longitudinal displacement of the collars.

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

1. A chain-link consisting of side plates with mitered edges arranged edge to edge, two collars, one at each end of the link, for holding the plates together, and a bar extending through the link, having two loops, one at each end, impinging on the ends of the plates at their joints, substantially as described.

2. A chain-link consisting of side plates arranged edge to edge, collars, one at each end of the link, for holding the plates together, a cylinder within the side plates, and a bar extending through the link, having two loops, one at each end, impinging on the ends of the plates, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 25th day of June, 1879.

JAMES L. HEELEY. [L. S.]

Witnesses:
JOHN DAGGETT,
P. E. WITHERELL.