

J. E. STUDLEY.
Chain-Link.

No. 219,832.

Patented Sept. 23, 1879.

Fig. 1.

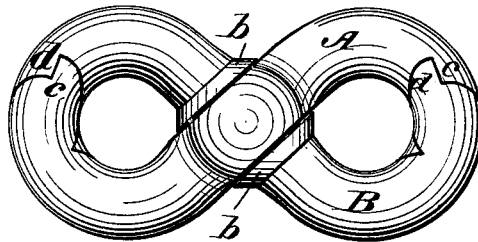


Fig. 2.

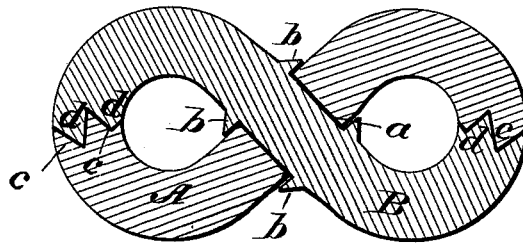
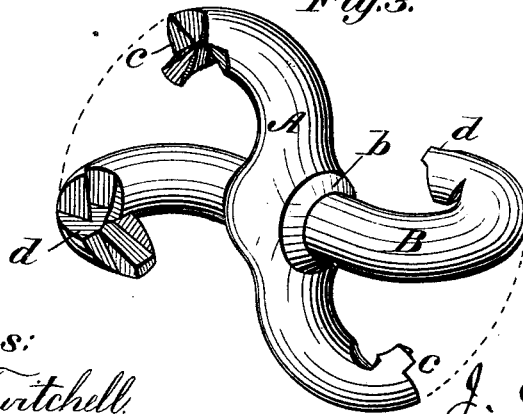


Fig. 3.



Witnesses:

Donn J. Twitchell.

A. P. Cowe

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UNITED STATES PATENT OFFICE.

JAMES E. STUDLEY, OF OSHKOSH, WISCONSIN.

IMPROVEMENT IN CHAIN-LINKS.

Specification forming part of Letters Patent No. **219,832**, dated September 23, 1879; application filed July 29, 1879.

To all whom it may concern:

Be it known that I, J. E. STUDLEY, of Oshkosh, in the county of Winnebago and State of Wisconsin, have invented certain Improvements in Chain-Links, of which the following is a specification.

My invention relates to that class of chain-links or couplings which are adapted to be opened at will; and it consists in forming the same in two parts, similar in form to the letter **S**, one of which is journaled directly upon the other, and in providing the matching ends of the two parts with interlocking lugs or shoulders to prevent their drawing apart.

In the accompanying drawings, Figure 1 represents a face view of my improved link closed; Fig. 2, a longitudinal section of the same, and Fig. 3 a perspective view of the same opened.

As shown, the link consists of two cylindrical parts, A and B, of the form of letter **S**, the former furnished with an enlargement at its middle, in which there is formed an eye, *a*, to encircle the part B, upon which it is retained in proper position by two encircling ribs or shoulders, *b*, one at either side, as shown. The part A is adapted to turn freely upon the part B, whereby its ends are caused to approach or recede from the ends of part B, according to the direction in which it is turned, thus enabling the link to be opened or closed at will at both ends simultaneously.

The ends of the parts A and B are each formed with interlocking lugs or lips *c* and *d*, which are of such form as to prevent the adjoining ends from opening apart in any direction other than that in which they are arranged to swing or turn.

By the above construction I am enabled to dispense with rivets, bolts, or other separate devices for pivoting the parts, and also to provide a very wide opening for the entrance of

a ring or other article into the link, while at the same time avoiding all danger of the link being drawn apart at the ends.

The part A may be passed over the part B previous to bending its end into shape, when wrought metal is used, one of the collars or shoulders *b* being formed previous and the other subsequent to the placing of the part A in position; or a pin or nut may be employed to retain the part in place. In practice, however, I prefer to construct the link entirely of malleable cast-iron, the part B being cast complete with the collars *b* upon it, and the part A cast with its central portion encircling the space between the collars, the entire link being subsequently rendered malleable by the usual process.

It will be observed that by the above construction I avoid the use of rivets or bolts, and at the same time secure a very large and strong joint without materially enlarging the same.

I am aware that links have been made in various forms of two parts turning on a central pivot, and hence I do not claim such, broadly.

Having thus described my invention, what I claim is—

1. The herein-described link, consisting of the two **S**-shaped parts journaled centrally one directly upon and around the other.
2. The combination, in a coupling-link, of two unbroken cast-metal parts, A B, one encircling a shouldered neck or journal on the other, as described.
3. The parts A B, journaled together and provided with the interlocking end lips, as described.

JAMES E. STUDLEY.

Witnesses:

A. T. GLAZE,
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