

(23.)

M. OSBORN.
Chain Coupling & Swivel
Comb'd.

No. 122,644.

Fig. 1.

Patented Jan. 9, 1872.

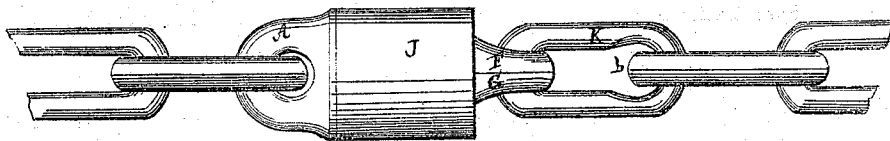


Fig. 2.

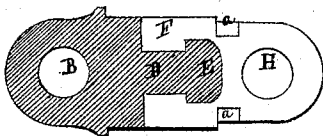


Fig. 3.

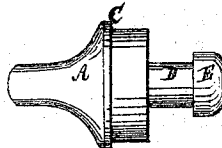


Fig. 4.

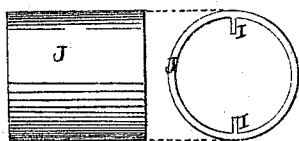
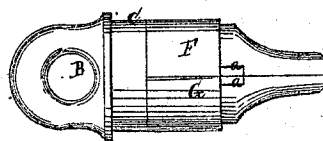


Fig. 5.



Inventor.
M. Osborne.
per Burridge & Co.
Attys

Witnesses.
J. H. Burridge.
D. L. Humphreys

UNITED STATES PATENT OFFICE.

MILO OSBORN, OF CLEVELAND, OHIO.

IMPROVEMENT IN CHAIN-COUPPLINGS.

Specification forming part of Letters Patent No. 122,644, dated January 9, 1872.

To all whom it may concern:

Be it known that I, MILO OSBORN, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented a new and Improved Chain-Coupling and Swivel combined, of which the following is a description, reference being had to the accompanying drawing making part of this specification.

SPECIFICATION.

Figure 1 is a side view of the swivel; Fig. 2, a longitudinal section; Figs. 3, 4, and 5 are detached sections.

Like letters of reference refer to like parts in the different views.

The object sought for in this invention is to connect sections of chains together by means of a swivel-joint, so that said chains may be disconnected or connected at will in a secure, easy, and ready manner.

The construction and operation of said coupling and swivel are as follows:

The abovesaid coupling-swivel is constructed in four sections, viz.: Section A, Fig. 3, consists of an eye, B, Fig. 5, to which the chain is attached. Said eye or section is provided with a shoulder, C, from the center of which projects a stem or neck, D, having thereon a head, E, the whole being made as shown in the drawing, Fig. 3. To the neck and head of the section A, above described, are fitted the two parts, F G, Fig. 5, having an inside print of the shape and size to receive the neck and head of section A, as shown in Fig. 2, which represents one of the parts, G, removed, while the other, F, remains in connection with the neck and head. The two parts, when together, inclosing the neck and head, are shown in Fig. 5. Each of the two parts F G is alike provided with an eye, H, in which a link of the chain is attached, as shown in Fig. 1; also, each of the parts is alike provided with notches *a*, Figs. 2 and 5, for the reception of the lugs I, Fig. 4, projecting from the inside of the ring or collar J, which is made to fit on over the two parts F G and the shoulder C, as shown in Fig. 1. The joint thus formed by the parts F G, embracing closely but not tightly the neck and head D E, allows the neck and

head to turn around therein, and which is prevented from being pulled apart or out from the two sections F G by the head, as will be obvious on examination of Fig. 2.

The manner of putting the coupling together, as shown in Fig. 1, is as follows: The link K, Fig. 1, is reversed or turned end for end in its relation to the coupling, thereby bringing the wide part *b* of the link to the eye of the swivel. This will allow the two sections or parts F G to spread apart so that the lugs I of the collar J will slip between them and into the notches *a*. The collar is thus held from slipping further on by the shoulder C, and is prevented from slipping back and off by the lugs inclosed in the notches, and at the same time the two sections are withheld from spreading so as to allow the lugs to pass between them by again turning the link K end about, thereby bringing the narrow part of the link in connection with the eye of the swivel, which will not permit the two sections to spread from each other, but remain close, as shown in Fig. 1, which, as abovesaid, shows the coupling while in use.

By a reversal of this operation of connecting the several parts of the coupling it can be detached, and thus long lengths of chain can be shortened up by uncoupling sections constituting the entire length.

The construction of this coupling is such that it readily adapts itself to the various twistings of the chain, and thus serves in an efficient manner the office of a swivel, preventing the chain from twisting into kinks.

Claim.

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

The herein-described chain-coupling and swivel, consisting of the neck D and head E, in combination with the parts F G, having notches *a*, collar J having lugs I, and link K, in the manner substantially as and for the purpose set forth.

MILO OSBORN.

Witnesses:

W. H. BURRIDGE,
J. H. BURRIDGE.

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