

F. J. GLOWTH.
CHAIN LINK.
APPLICATION FILED DEC. 8, 1911.

1,051,881.

Patented Feb. 4, 1913.

Fig. 1.

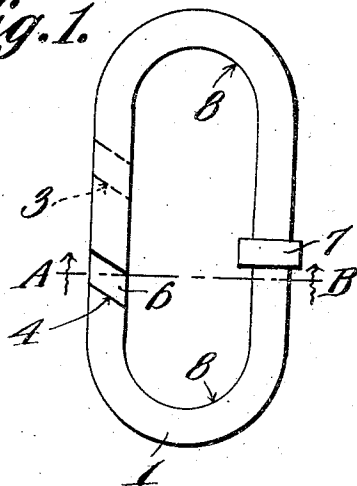


Fig. 2.

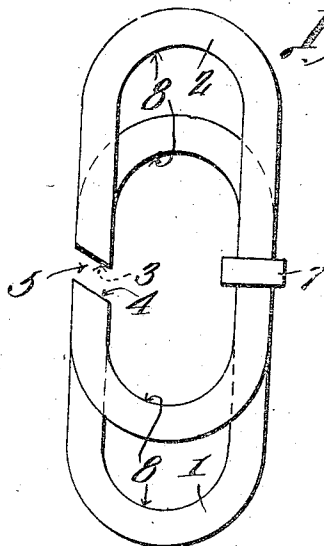


Fig. 3.

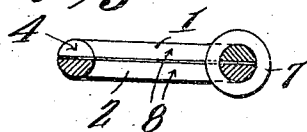


Fig. 4.

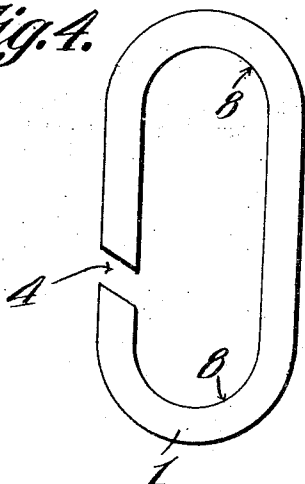
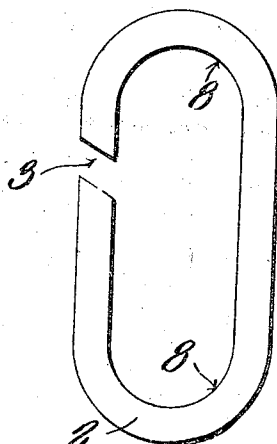


Fig. 5.



Witnesses

J. P. Dornier
L. H. Wickow

Frederick J. Glowth,
Inventor

by

C. A. Snow & Co.
Attorneys

UNITED STATES PATENT OFFICE.

FREDERICK J. GLOWTH, OF YONKERS, NEW YORK, ASSIGNOR OF ONE-HALF TO HENRY E. SCHLOBOHM, OF YONKERS, NEW YORK.

CHAIN-LINK.

1,051,881.

Specification of Letters Patent.

Patented Feb. 4, 1913.

Application filed December 8, 1911. Serial No. 664,576.

To all whom it may concern:

Be it known that I, FREDERICK J. GLOWTH, a citizen of the United States, residing at Yonkers, in the county of Westchester and State of New York, have invented a new and useful Chain-Link, of which the following is a specification.

The objects of the present invention are, to provide a link the constituent parts of which may be assembled without the use of tools; to provide a link the constituent loops of which are united by a member which may be mounted upon, and removed from the loops, without altering the contour of the loops and without altering the form of the uniting member.

A further object of the invention is to provide a link, the constituent loops of which are of unbroken contour, saving for alinable openings whereby one link may be assembled with another link.

With the foregoing and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the accompanying drawings,—Figure 1 shows in plan, a link constructed in accordance with the present invention, the constituent loops of the link being alined, and in the positions which they will assume when the link is in use; Fig. 2 is a plan showing the links disposed out of alinement, thereby to open the link for concatenation with another link; Fig. 3 is a transverse section upon the line A—B of Fig. 1; Fig. 4 is a plan of one of the link-forming loops; and Fig. 5 is a plan of the other link-forming loop.

In carrying out the invention there are provided a pair of loops 1 and 2, of like contour and adapted to slide upon each other. In the loop 2 there is an opening 3; and in the loop 1 there is an opening 4. When the loops 1 and 2 are alined, as shown in Fig. 1, the openings 3 and 4 are out of alinement, and the link presents an unbroken contour. The loops 1 and 2, however, may move relatively to each other, so as to aline the open-

ings 3 and 4, as shown at 5 in Fig. 2, whereupon one link may be concatenated with another link.

The openings 3 and 4 in the loops 2 and 1, respectively, are each of less width than the combined thickness of both loops. Consequently, a pair of concatenated links constructed in accordance with the present invention, can be separated only by alining the openings 3 and 4 of one link, as shown at 5, the other link being turned about at right angles to the first, so that the portion 6 of one loop, exposed by the opening 4, may be passed through the alined openings 5. The loops 1 and 2 are connected by a ring 7. This ring 7 slides upon the loops 1 and 2, but fits therearound with sufficient closeness so that the ring may be slid only by the application of an appreciable force. The ring 7 is of such a width that it may be removed through the openings 4 and 3, when the same are alined as shown at 5, the ring 7 normally resting opposite to the openings 3 and 4. The bends 8 of the loops 1 and 2 tend to limit the sliding movement of the ring 7, and when one link is engaged with another, the ring 7, obviously, will not slide beyond the bends 8.

It is to be noted that the loops 1 and 2 are imperforate, saving for the openings 3 and 4; consequently, the loops are not weakened by openings which are necessary to provide a place of attachment for a rivet or the like, whereby the loops may be slidably connected.

The constituent parts 1, 2 and 7 of the link are freely separable and individually movable. It is to be noted that in assembling and in taking down the link, no tools are required, and no smithwork is necessary.

The link herein disclosed, may be used as a repair link in a chain of ordinary construction, or, if desired, the entire chain may be fashioned from links of the sort hereinbefore described. Such a chain will be found useful, particularly, for mooring vessels, since it is possible to freshen the hawse, or to disengage the chains of both bowers, when fouled, simply by opening one or more links.

Having thus described the invention, what is claimed is:—

1. A link comprising as constituent parts, cooperating loops having alinable openings

extended entirely across the loops, and a member uniting the loops; all of which parts are freely separable.

2. A link comprising cooperating loops 5 having alinable openings extended entirely across the loops; and a movable ring through which the loops are engaged.

3. A link comprising cooperating loops 10 having alinable openings extended entirely across the loops; and a movable ring through which the loops are engaged, the ring being removable through the openings, when the openings are alined.

4. A link comprising cooperating loops 15 having alinable openings extended entirely across the loops, the opening in each loop being of less width than the combined thickness of both loops; and means for securing the loops together slidably.

20 5. A link comprising cooperating loops

having alinable openings extended entirely across the loops, the opening in each loop being of less width than the combined thickness of both loops; and a ring through which both loops are engaged. 25

6. A link comprising cooperating loops 25 having alinable openings extended entirely across the loops, the opening in each loop being of less width than the combined thickness of both loops; and a ring through 30 which both loops are engaged, the ring being removable through the openings, when the openings are alined.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses. 35

FREDERICK J. GLOWTH.

Witnesses:

HENRY E. SCHLOBOHM,

JOHN J. NAUGHTON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."