No. 691,433. Patented Jan. 21, 1902.

W. H. BAKER.

DETACHABLE LINK.

(Application filed Apr. 29, 1901.)

(No Model.)

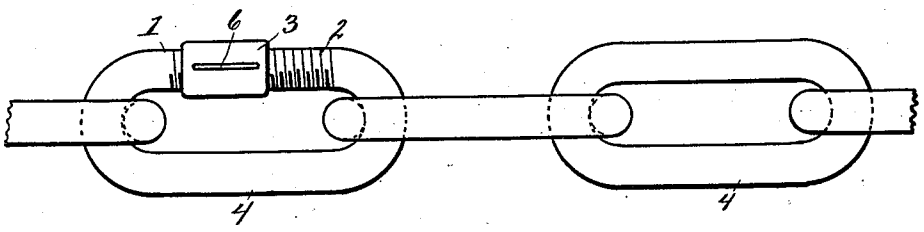


Fig. 1.

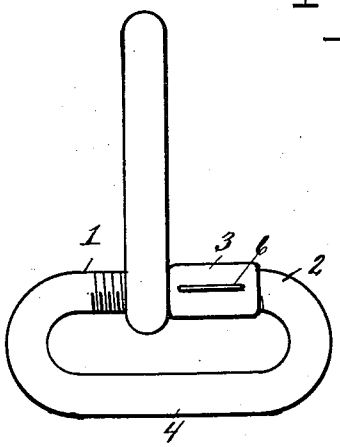


Fig. 2.

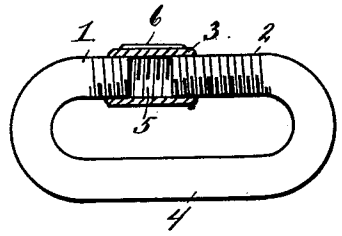


Fig. 3.

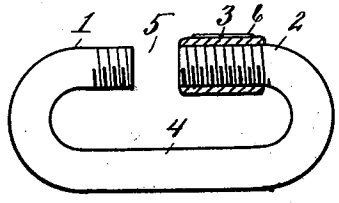


Fig. 4.

WITNESSES.

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DETACHABLE LINK.

SPECIFICATION forming part of Letters Patent No. 691,433, dated January 21, 1902.

Application filed April 29, 1901. Serial No. 57,920. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. BAKER, a citizen of the United States, residing at Detroit, in the county of Wayne, State of Michigan, have invented certain new and useful Improvements in Detachable Links; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

This invention relates to a detachable chain-link; and it consists in the construction and arrangement of parts hereinafter fully set forth, and pointed out particularly in the claims.

The objects of the invention are to produce a link of the character described for the purpose of mending or splicing broken chains of such construction as to obviate any deleterious effects by the action of the frost, to obviate overloading said link beyond its strength or capacity by connecting thereto chains of larger gage than said link, and to provide a link that when used for splicing chains will pass over sheaves and pulleys or wind upon rollers as readily as the links of the chains of which it becomes a part, obviating the breaking of said link through its inability to conform to the arc of the roller or pulley.

The above objects are attained by the arrangements of parts illustrated in the accompanying drawings, in which—

Figure 1 shows my improved link as employed in mending a broken chain. Fig. 2 is an elevation of the link, illustrating the manner of inserting another link therein, the opening through which the link is inserted gaging the size to prevent overloading. Fig. 3 is a sectional view through the sleeve which closes the opening in the link, showing said sleeve embracing the open ends of the link, as when closing said opening. Fig. 4 is a sectional view through the sleeve, showing said sleeve retracted to open the link and allow of the insertion of another link therein.

It is designed that this improved cold shut or link shall be formed of steel or wrought-iron to obviate the liability of said link becoming affected by frost, an important consideration where the link is to be employed in mending chains used in lumbering or other capacities where they are likely to be subject to conditions of low temperature.

In the formation of this link a steel or wrought-iron bar of the requisite gage is cut to the length required to form the desired size of link, when the ends 1 and 2 of said link-section are threaded, and the sleeve 3 is screwed onto the longer threaded end portion 2. The rod-section is then formed into a link, as shown, with the threaded end portions lying parallel to the body 4 of the link and standing apart to form the opening 5 between their opposed ends. In forming the link the space 5 between the threaded ends 1 and 2 thereof is so regulated that it will receive the link only of a chain of the proper size or gage to be connected therewith without overtaxing the cold-shut link or allowing the connection thereto of a link too large for the strength of said link. To close the link, the sleeve 3 is screwed forward onto the threaded end portion 2, so as to embrace and receive the threaded end 1, the sleeve spanning the opening 5 between the threaded ends of the link, as shown in Fig. 3, thereby making a closure of the link and uniting the opposed ends thereof in a manner to give to the joint the requisite strength to prevent the link from opening when put into use. When desiring to detach the link, the sleeve is screwed back upon the threaded end portion 2, so as to expose the opening 5, when said sleeve may be removed. Upon the sleeve 3 is a raised bead 6 to afford means for grasping the sleeve when turning it in the operation of opening and closing the link.

When used to splice a chain, as shown in Fig. 1, this improved link occupies the same space in the chain as the other links and does not in any sense render the chain less flexible, enabling a mended chain to be employed in the same capacity as before, allowing said chain to be wound over pulleys and rollers without hindrance or liability of breaking.

The use of this improved link will greatly facilitate the splicing, lengthening, or mending of chains, as it obviates the necessity of taking a broken chain to a forge for weld-

ing and enables a new link to be placed in the chain at any time without material delay.

It is designed that this improved link shall be made in various sizes and placed on the market, so that they may be purchased by the consumer in any size desired and at a less expense than the ordinary links for this purpose.

Having thus fully set forth my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A detachable link, comprising an integral body formed of a loop, whose ends are separated to form a fixed opening for the insertion of a link, or links, therein, said end portions being straight and standing in axillar alinement, threads upon the straight portion of said terminals, a sleeve threaded upon one of said terminals and adapted to screw therefrom onto the other terminal so as to close the opening in the link.

2. A detachable link, comprising an integral body having an opening therethrough and straight rigid end portions opposite said opening one of the end portions being longer than the other and both of said end portions being threaded, a threaded sleeve on the longer of said end portions adapted to screw therefrom onto the opposite threaded end portion to close the opening in the link and tie the end portions of the link together.

In testimony whereof I sign this specification in the presence of two witnesses.

WILLIAM H. BAKER.

Witnesses:
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