B. B. TUTTLE.

LINKS FOR DRIVE-CHAINS.

No. 188,209. Patented March 6, 1877.

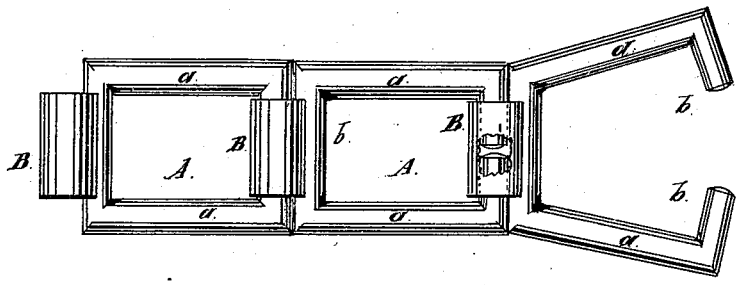

Fig. 1.

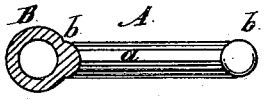

Fig. 2.

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BRONSON B. TUTTLE, OF NAUGATUCK, CONNECTICUT, ASSIGNOR TO EWART MANUFACTURING COMPANY, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN LINKS FOR DRIVE-CHAINS.

Specification forming part of Letters Patent No. **188,209**, dated March 6, 1877; application filed February 29, 1876.

To all whom it may concern:

Be it known that I, BRONSON B. TUTTLE, of Naugatuck, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Links for Drive-Chains, which is fully set forth in the following specification, reference being had to the accompanying drawings, in which—

Figure 1 represents a section of chain composed of my links, one of them being opened for coupling; and Fig. 2 is a longitudinal section of a single link.

My invention relates to that class of links which are made detachable from each other; and it consists in a square open link, upon one end bar of which is cast a tubular coupling-piece, and the other end bar being divided, to permit the spreading of the link for the insertion of the two parts of this end bar in the tubular coupling.

In the drawings, A represents a square open link, having two side bars, *a a*, and two end bars, *b b*. This link is intended to be made of malleable iron, and upon one of the end bars a tubular projection, B, is cast with the link. This tube serves as the means of coupling the links together, and is consequently made shorter than the end bar, so that it will enter the space between the side bars of the link. The other end bar of the link is divided, as seen in the first and second links of the drawings, the tubular coupling on the first link being broken away for this purpose.

The links must be made from metal, which will permit the spreading and closing of the side bars, for the purpose of coupling and uncoupling.

In order to connect two links together, the side bars *a a* are at first spread open sufficiently to admit the passage of the tubular projection on the other link between the two parts of the divided end bar.

The first link in Fig. 1 shows the side bars in this position. The tubular projection B of the other link is then placed in this opening of the end bar, and the side bars are forced together again, in which operation the two sections of the divided end bar are caused to enter the tubular coupling.

When the side bars are brought back into a position parallel to each other, the two sections of the divided end bar will assume the position in the tube shown in link No. 2 of Fig. 1, where the coupling B of link No. 1 is broken away.

By this improvement, a simple, safe, and secure coupling device is provided for the links, which permits them to be readily attached and detached at pleasure.

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

1. A sprocket-link for drive-chains, provided with a tubular projection cast upon one of its end bars, substantially as described.

2. An open link for drive-chains, having one of its end bars divided, and the opposite end bar provided with a tubular projection, substantially as described.

3. The method herein described of coupling two links together, by means of a tubular projection on the end bar of one link, and a divided end bar on an adjacent link, the sections of which are inserted in the tube, substantially as described.

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