No. 614,334. Patented Nov. 15, 1898.

C. E. McGLINCHEY.

HUB FOR BICYCLE WHEELS.

(Application filed Apr. 16, 1897.)

(No Model.)

Fig. 1.

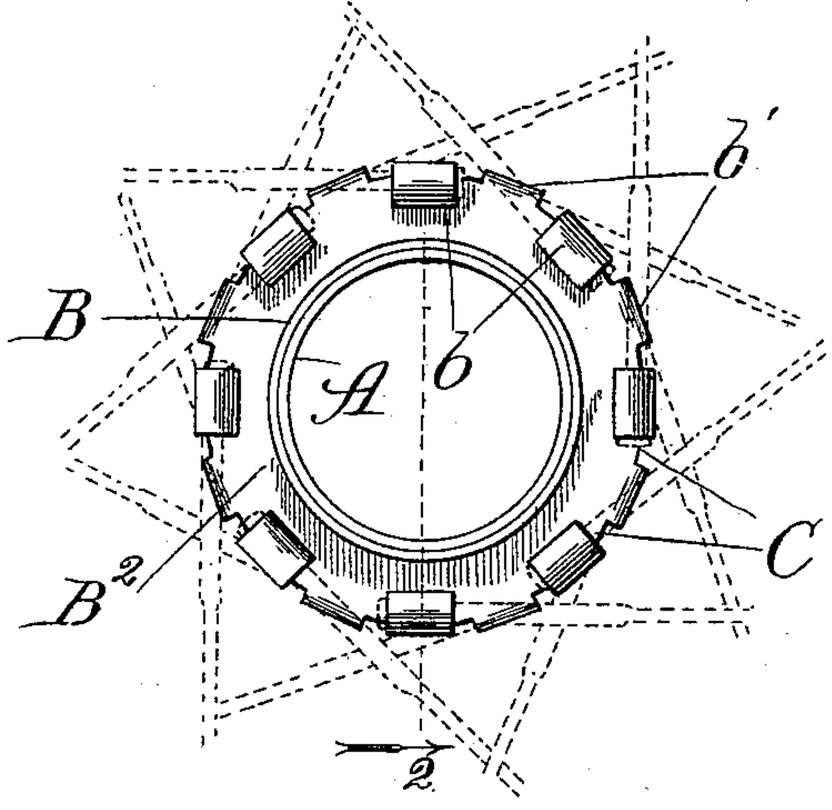


Fig. 2.

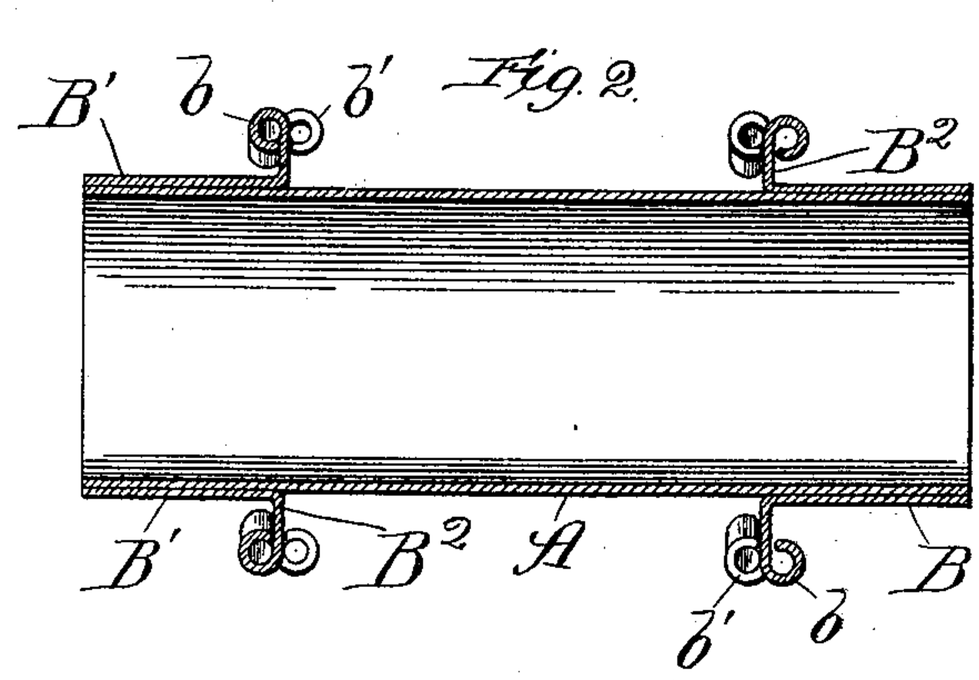
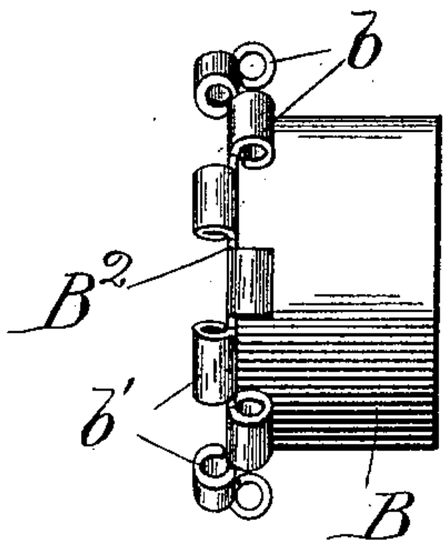


Fig. 3.



Witnesses:
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UNITED STATES PATENT OFFICE.

CHARLES E. McGLINCHEY, OF HIGHLANDVILLE, MASSACHUSETTS, ASSIGNOR TO WILLIAM HERRICK, OF CHICAGO, ILLINOIS.

HUB FOR BICYCLE-WHEELS.

SPECIFICATION forming part of Letters Patent No. 614,334, dated November 15, 1898.

Application filed April 16, 1897. Serial No. 632,381. (No model.)

To all whom it may concern:

Be it known that I, CHARLES E. McGLINCHEY, a citizen of the United States, residing at Highlandville, Massachusetts, have invented certain new and useful Improvements in Hubs for Bicycle-Wheels, of which the following is a specification.

The object of my invention is to provide a simple, economical, and efficient hub for a bicycle-wheel; and the invention consists in the features, combinations, and details of construction hereinafter described and claimed.

In the accompanying drawings, Figure 1 is an end elevation of a hub constructed in accordance with my improvements and showing a portion of the tangential spokes arranged in dotted lines; Fig. 2, a longitudinal sectional view taken on line 2 of Fig. 1, and Fig. 3 an elevation of one of the spoke-flange thimbles removed from the cylinder which forms the hub.

In the art to which this invention relates it is well known the most efficient wheels are made by arranging the spokes in tangential lines from the points at which they engage the hub and are connected with the rim, so that the pull is transmitted in as straight a line as possible.

The primary object of my invention, therefore, is to provide a hub that will permit of such engagements and connections with the hub and rim, which will more fully appear from the following description and an inspection of the drawings.

In constructing a hub in accordance with my improvements I use a central cylindrical tube A of the desired size and shape and provide it with thimbles B B′, one at each end of the cylindrical portion. These thimbles are provided with what I term "spoke-flanges" B^2, secured at their inner lateral edges and which preferably form a portion of the thimble, the whole being made or stamped from sheet metal, which gives the greatest strength with the least amount of material.

In order to provide for the connections of the spoke in an economical and efficient manner, I make a number of cylindrical tangential portions *b b′*, one set of which is arranged on one side of the flange and the other on the other side of the flange and alternating from side to side. These cylindrical projections are made by cutting the peripheral edge of the flange into any desired number of rectangular projections and then rolling or bending the same over, as is shown fully in Fig. 2, so as to form the cylindrical pockets for the reception of the heads of the spokes C.

The thimbles may be secured to the cylindrical portion in any desired manner, preferably by brazing, and the flanges, instead of being made of thimble-shaped portions, may be simple flanges secured directly to the central tube in any desired manner. The advantages due to the use of my improvements are that the hub may be formed quickly and economically, and the cylindrical projections being arranged at right angles to radial lines form bearing portions for the spokes and secure the same in a true tangential manner.

I claim—

1. In a hub for bicycle-wheels, the combination of a central tubular portion, a spoke-flange formed of sheet metal having its outer peripheral edge cut into a number of projections such projections being alternately bent to one side and the other of the flange so as to form cylindrical tubular spoke-pockets and arranged at substantially a right angle to radial lines, substantially as described.

2. In a hub for bicycle-wheels, the combination of a central tubular portion, thimble portions arranged thereon one near each end of the central tubular portion, and a lateral flange on each of such thimble portions formed of sheet metal integral with the thimble portion and having their outer peripheral edges cut so as to form projections and bent alternately to one side and the other of the flange so as to form cylindrical tubular spoke-pockets at right angles to radial lines, substantially as described.

CHARLES E. McGLINCHEY.

Witnesses:

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