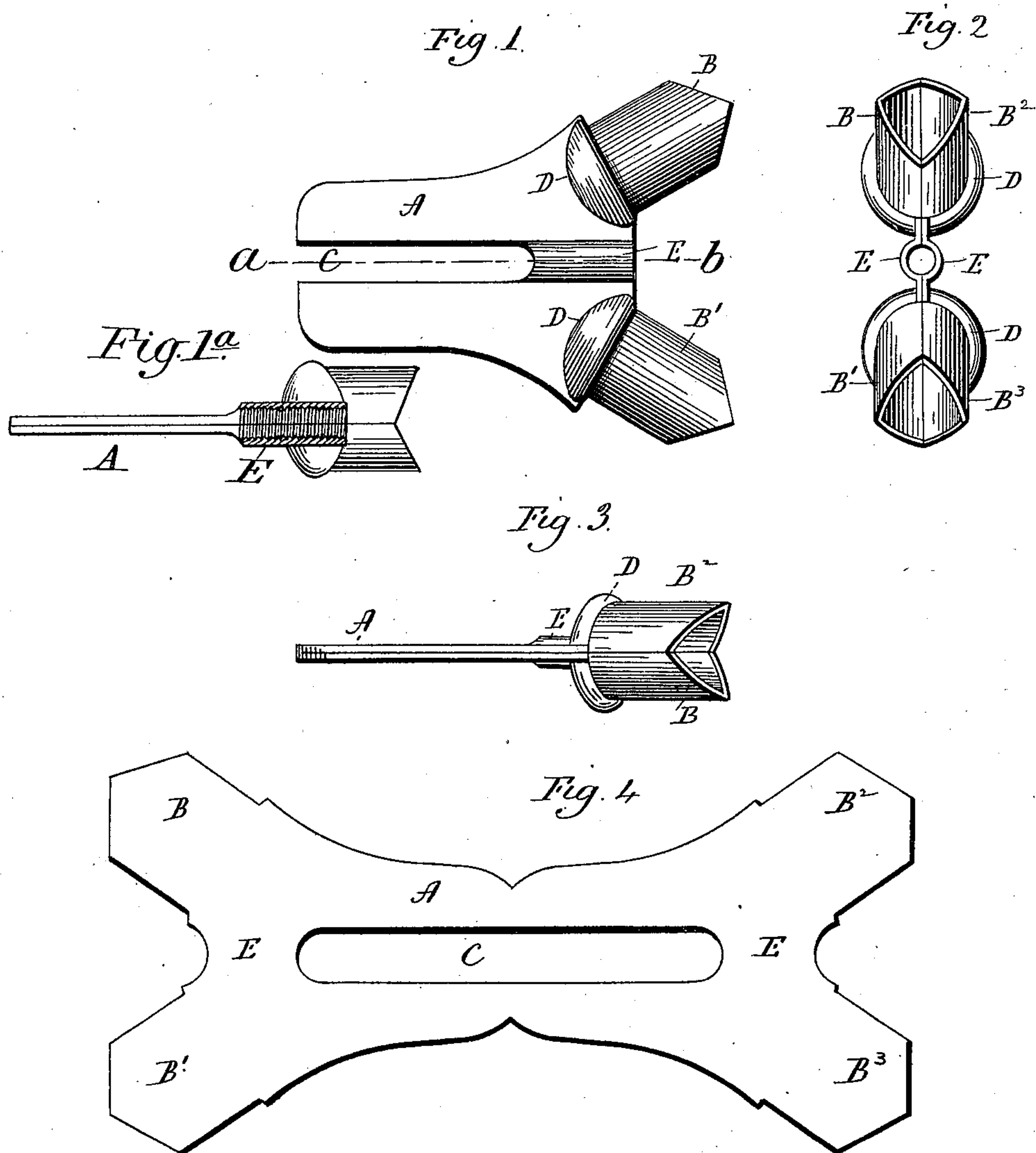


(No Model.)

R. G. CORNFORTH.
FITTING FOR CYCLES.

No. 590,825.

Patented Sept. 28, 1897.



Witnesses.
J. H. Shumway
Ellen Scarborough

Robert G. Cornforth,
Inventor.
By Atty. Earle Seymour

UNITED STATES PATENT OFFICE.

ROBERT G. CORNFORTH, OF SEYMOUR, CONNECTICUT, ASSIGNOR OF ONE-HALF TO FRANK H. BEECHER, OF SAME PLACE.

FITTING FOR CYCLES.

SPECIFICATION forming part of Letters Patent No. 590,825, dated September 28, 1897.

Application filed April 3, 1897. Serial No. 630,551. (No model.)

To all whom it may concern:

Be it known that I, ROBERT G. CORNFORTH, of Seymour, in the county of New Haven and State of Connecticut, have invented a new Improvement in Fittings for Cycles; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a side view of a fitting or bearing constructed in accordance with my invention; Fig. 1^a, a sectional view on line *a b* of Fig. 1; Fig. 2, a front view of the same; Fig. 3, a top view; Fig. 4, a plan view of the blank preparatory to forming the tubular portions.

This invention relates to an improvement in fittings for cycles, and particularly to the construction of the rear-fork ends, to which parts the tubular-frames are attached, and particularly to that class of ends in which an adjusting-screw is arranged for moving the axle of the rear wheel for the purpose of tightening the chain. In the more general construction of this class of fittings the fitting is formed of several parts. Thus the tubular projections to which the tubular frames are attached are formed independent of the plate.

The object of this invention is to produce a fitting or fork comprising a plate, tubular bearing for the frame, and a bearing for the adjusting-screw, all from a single piece of metal; and it consists in the construction herein described, and particularly recited in the claim.

As shown in the accompanying drawings, the fork is formed from a single piece of metal A, having an arm projecting outward at each corner, as here indicated by B, B', B², and B³. In the center of the plate is a long slot C. The arms B, B', B², and B³ are struck in semicylindrical shape, and also so as to form shoulders D, and the metal E at the ends of the slot C is also struck into semicylindrical form. When the blank is thus formed, it is doubled

upon itself so as to bring the concave surfaces of the respective ends together, and this forms a plate having two cylindrical arms and a long cylindrical bearing opening into the slot. The slot C forms the bearing for the rear wheel, and the tubular portion E is threaded to receive the usual adjusting-screw, while the ends of the tubular frame are set over the tubular ends of the bearing and abutted against the shoulders D. By forming the two ends of the blank in duplicate the edges will exactly meet and require but little finishing. If desired, the parts of the plate might be secured together by rivets, but it is found in practice that the clamping-nuts for the axle, which is inserted in the slot, is sufficient to hold the parts together, and if there is a slight play between them that space will be reduced by the said clamping-nut and bind the sides of the tubular portion E upon the screw, so as to prevent the accidental displacement of that screw. It will thus be seen that a coupling as described is readily formed from sheet metal with but few operations and requires but little or no subsequent work for finishing the article for the market, and being all in one piece of metal is stronger than when the bearings for the tubular portion of the frame are made independent of and attached to the plate.

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

The herein-described fitting for cycles, consisting of a plate, tubular screw-bearing and tubular frame-supports formed from a single strip of sheet metal, sections of each member formed at opposite ends of said strip which is doubled together, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

ROBERT G. CORNFORTH.

Witnesses:

F. W. ADAMS,
GEO. H. WIRTEMBURG.