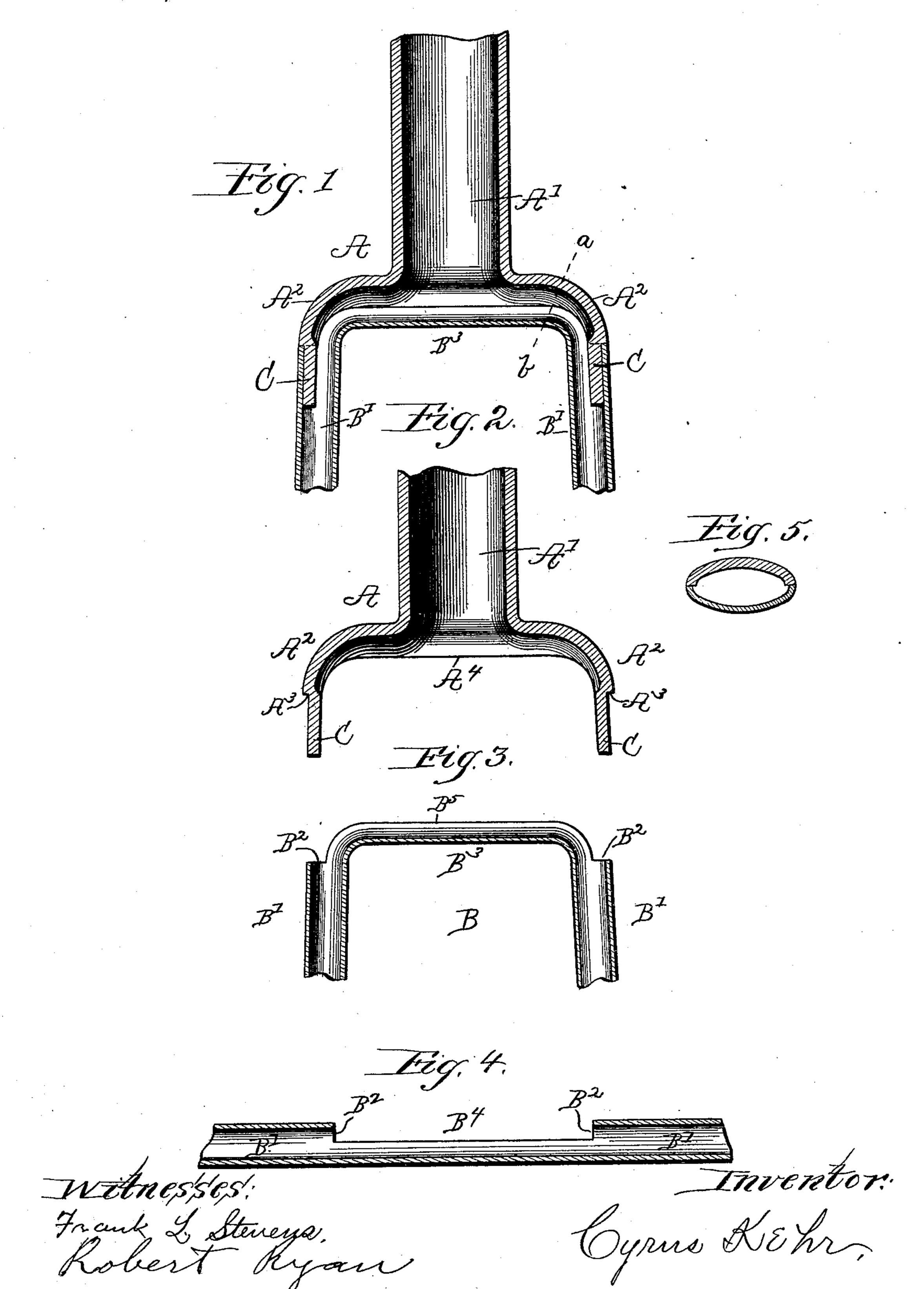
(No Model.)

C. KEHR. FORK FOR VELOCIPEDES.

No. 482,090.

Patented Sept. 6, 1892.



United States Patent Office.

CYRUS KEHR, OF LAKESIDE, ILLINOIS.

FORK FOR VELOCIPEDES.

SPECIFICATION forming part of Letters Patent No. 482,090, dated September 6, 1892.

Application filed January 11, 1892. Serial No. 417,749. (No model.)

To all whom it may concern:

Be it known that I, Cyrus Kehr, a citizen of the United States, residing at Lakeside, in the county of Cook and State of Illinois, have 5 invented certain new and useful Improvements in Forks for Velocipedes; and I do hereby 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 10 it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of my invention is to produce a 15 velocipede-fork which shall be light, as well as strong and economical in manufacture.

In the accompanying drawings, Figure 1 is a vertical section through the neck and the upper portion of the legs of the completed 20 fork. Fig. 2 is a similar section of the crown of the fork detached from the legs. Fig. 3 is a similar section of the piece constituting the upper ends of the legs and the reinforcement for the crown. Fig. 4 shows the part illus-25 trated in Fig. 3 before being bent. Fig. 5 is a section in line a b of Fig. 1.

A is the crown. This is shown detached in Fig. 2 and combined with the legs and reinforcement in Fig. 1.

A' is the neck.

The outer face of each of the shoulders A² of the crown extends to the substantially vertical portion of the legs, at which point there is on said crown a substantially horizontal 35 downward-directed face A³. The lower face of the crown is concave and terminates at each side in a downward-directed edge A⁴. The faces A³ and the edges A⁴ are to meet, respectively, the faces B² of the legs B' and the 40 upward-directed edges B⁵ of the reinforcing member, to be hereinafter described.

B is an integral arch composed of the tubular legs B' and the reinforcing member B3. This arch is formed by taking a piece of 45 metal tube and cutting out the upper half thereof at B4 through a linear distance equal to the length of the edge A⁴ between points opposite the faces A³ of the crown A. (See

tube, excepting along B4, where it is a half- 50 tube, the concave or open portion being directed upward. At each end of the cutting B4 is a face B2, formed by the wall not cut away. The pipe is now bent downward at each side of the cutting B4 until the uncut 55 portions of the pipe are nearly perpendicular and the arch is formed, as shown in Fig. 3, the bending being done on the half of the pipe next to the faces B2. The arch now consists of the legs B' B' and a reinforcing mem- 60 ber B3, integral with and connecting said legs, said reinforcing member being concave above and having the upward-directed edges B⁵ and the faces B² of the legs B' being now directed upward and extending from the exte- 65 rior of each leg to the middle thereof. The specific dimensions and shape of the several parts of the arch are such as to cause the faces B2 to fit accurately upon the faces A3, while the edges B⁵ fit accurately upon the 70 edges A4, when the crown and said arch are brought together, as indicated in Fig. 1. After these edges are thus made to meet they are permanently brazed. The result is a light, graceful, and strong fork and one which is 75 elastic at every point, so that strains resulting from jarring are not concentrated at any particular point. A reinforcing-tongue C may extend from each shoulder of the crown downward into and along the outer wall of 80 the leg B', and such tongue may be brazed to said wall.

I claim as my invention—

1. In a velocipede-fork, the combination of a crown A, which is concave beneath and has 85 faces A³ and lateral down-directed edges A⁴, and an arch composed of the tubular legs B', having at their upper ends faces B2, meeting and brazed to the faces A3, and a reinforcing member B³, integral with said legs and con- 90 cave, with-upward directed edges B5, meeting and brazed to the edges A4, substantially as shown and described.

2. In a velocipede-fork, the combination of the crown A, concave beneath and having the 95 lateral downward-directed edges A4, faces A3, and reinforcing-tongues C, and tubular legs Fig. 4.) Thus the tube will continue to be a | B', having faces B² meeting and brazed to

the faces A³, and said tongues entering and being brazed to the outer walls of said legs, and a connecting member integral with said legs and concave above and having upward-directed edges B⁵ meeting and brazed to the edges A⁴ of the crown A, substantially as shown and described.

In testimony whereof I affix my signature, in presence of two witnesses, this 5th day of January, in the year 1892.

CYRUS KEHR.

Witnesses:

AMBROSE RISDON, FRANK L. STEVENS.