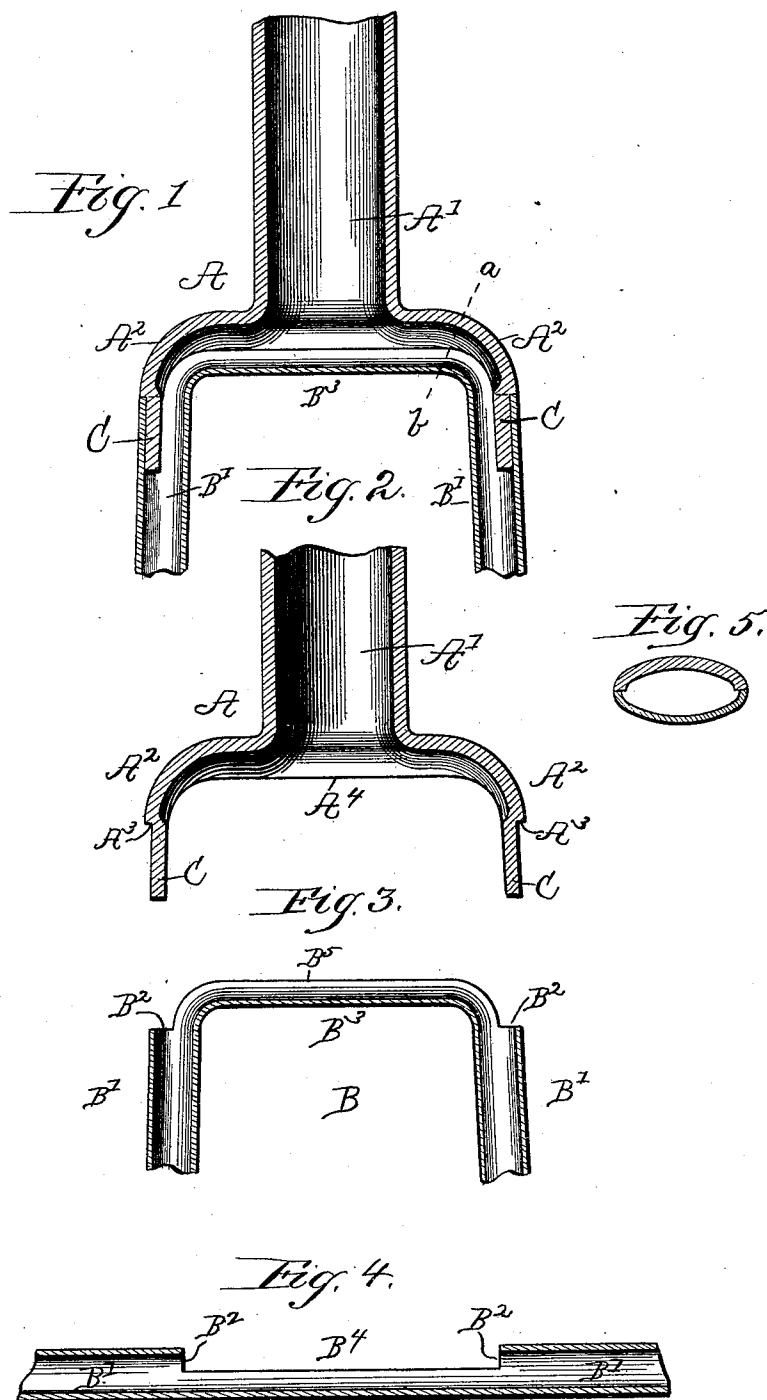


(No Model.)

C. KEHR.
FORK FOR VELOCIPEDES.

No. 482,090.

Patented Sept. 6, 1892.



Witnesses:
Frank L. Stevens.
Robert Ryan

Inventor:
Cyrus Kehr.

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
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 illustrated in Fig. 3 before being bent. Fig. 5 is
25 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.

30 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 Fig. 4.) Thus the tube will continue to be a

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
55 each side of the cutting B⁴ until the uncut 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
60 pipe next to the faces B². The arch now consists of the legs B' B' and a reinforcing member B³, integral with and connecting said legs, said reinforcing member being concave above
65 and having the upward-directed edges B⁵ and the faces B² of the legs B' being now directed upward and extending from the exterior of each leg to the middle thereof. The
70 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
75 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,
80 graceful, and strong fork and one which is elastic at every point, so that strains resulting from jarring are not concentrated at any particular point. A reinforcing-tongue C may
85 extend from each shoulder of the crown downward into and along the outer wall of 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
85 a crown A, which is concave beneath and has 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
90 and brazed to the faces A³, and a reinforcing member B³, integral with said legs and concave, with-upward directed edges B⁵, meeting
95 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 B', having faces B² meeting and brazed to

the faces A^3 , 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-
5 directed edges B^5 meeting and brazed to the
edges A^4 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.