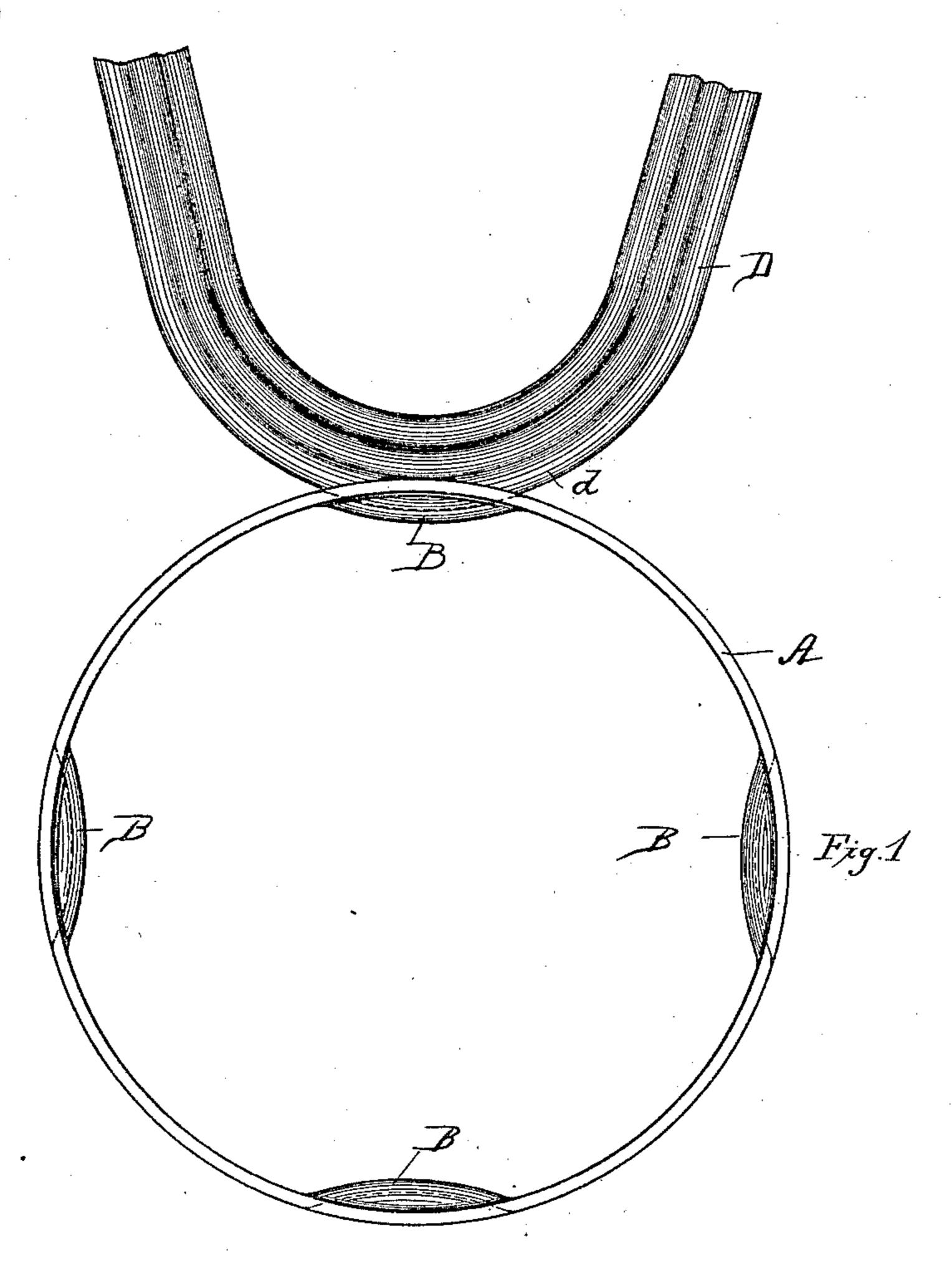
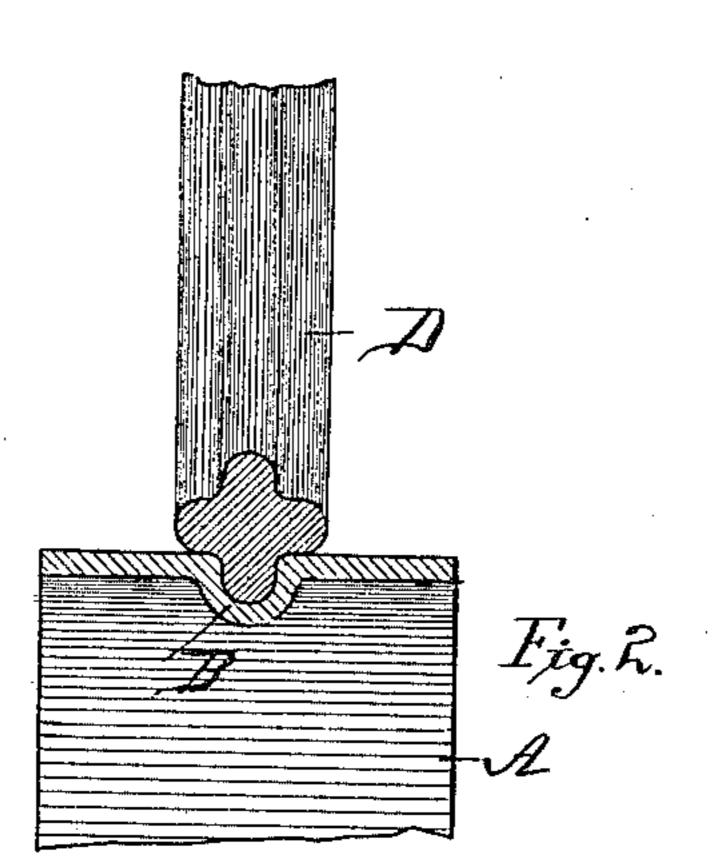
W. H. SCHOFIELD. METAL WHEEL.

(Application filed July 22, 1901.)

(No Model.)





WITNESSES: Och Leilenke, O.S. Frego,

William of Chafield Trederick Sergarine ATTORNEY.

UNITED STATES PATENT OFFICE.

WILLIAM H. SCHOFIELD, OF CHICAGO, ILLINOIS.

METAL WHEEL.

SPECIFICATION forming part of Letters Patent No. 697,950, dated April 15, 1902.

Application filed July 22, 1901. Serial No. 69,327. (No model.)

To all whom it may concern:

Beitknown that I, WILLIAM H. SCHOFIELD, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Metal Wheels; 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 it appertains to make and use the same.

My invention relates to improvements in metal wheels, and embodies new and useful improvements in an element of the invention shown in Letters Patent of the United States 15 No. 659,861, issued to me on the 6th day of October, 1900. In said patent is described a ring or collar which is arranged within the hub and formed with an annular groove in which the spokes have their bearing. It has 20 been found in practice that an annular groove is not essential for the purpose of giving a bearing for the spokes and that a better bearing and a stronger ring are secured by making depressions in the ring at points requisite 25 to receive the bent portions of the spoke. I have therefore designed the ring shown in

part of this application, and in which—
Figure 1 shows my improved bearing-ring
in elevation with a spoke applied thereto, and
Fig. 2 is a cross-section taken through one of
the depressed spoke-seats in the ring.

the accompanying drawings, which form a

Referring to the drawings in detail, A represents a thin steel ring which forms an element of the metal-hub construction shown in the patent above referred to. At four equidistant points the ring has depressed or countersunk portions B, each occupying in length about one-sixteenth of the circumference of the ring and having a maximum depth at its center of approximately one-fourth of its length. These depressions gradually de-

crease in depth from the center toward their ends, thus conforming to the contour of the bend d in the spoke D and furnishing a bearing for the latter, which prevents longitudinal as well as lateral movement or displacement.

By substituting the depressions for the annular groove in the bearing-ring I not only 50 provide better seats for the spokes, but secure a less compressible ring, permitting the employment of thinner material in its manufacture.

Having thus described my invention, what 55 I claim as new, and desire to secure by Letters Patent, is—

1. In a wheel, a metal hub-ring of the resilient character described, having a series of depressions in its face adapted to form indi- 60 vidual seats or bearings for spokes, the portions between said depressions being plane or unbroken.

2. In a wheel, a metal hub-ring of the resilient character described, having inwardly- 65 curved depressions in its face said depressions adapted to fit the bent portion of U-shape spokes.

3. In a wheel, a metal hub-ring of the compressible or resilient character described, hav- 70 ing a series of curved depressions in its face, said depressions being of maximum depth at their centers and gradually diminishing toward each end, for the purpose described.

4. In a wheel, a resilient metal hub-ring 75 having curved spoke-seats formed therein by stamping inwardly portions of the ring substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM H. SCHOFIELD. Witnesses:

O. K. TREGO, FREDERICK BENJAMIN.