

J. C. JOHNSON.

Axle Skein.

No. 97,408.

Patented Nov. 30, 1869.

Fig. 1

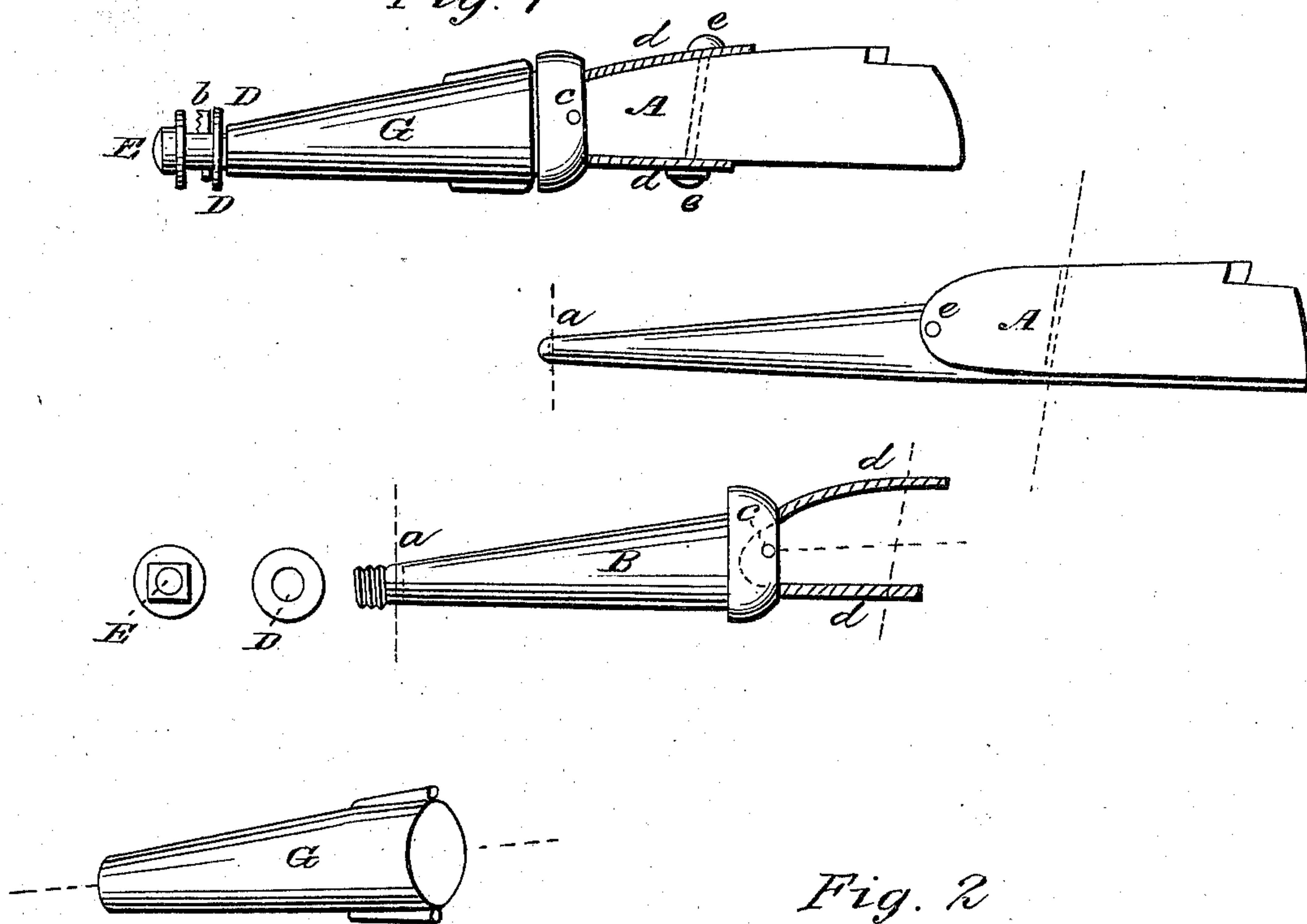
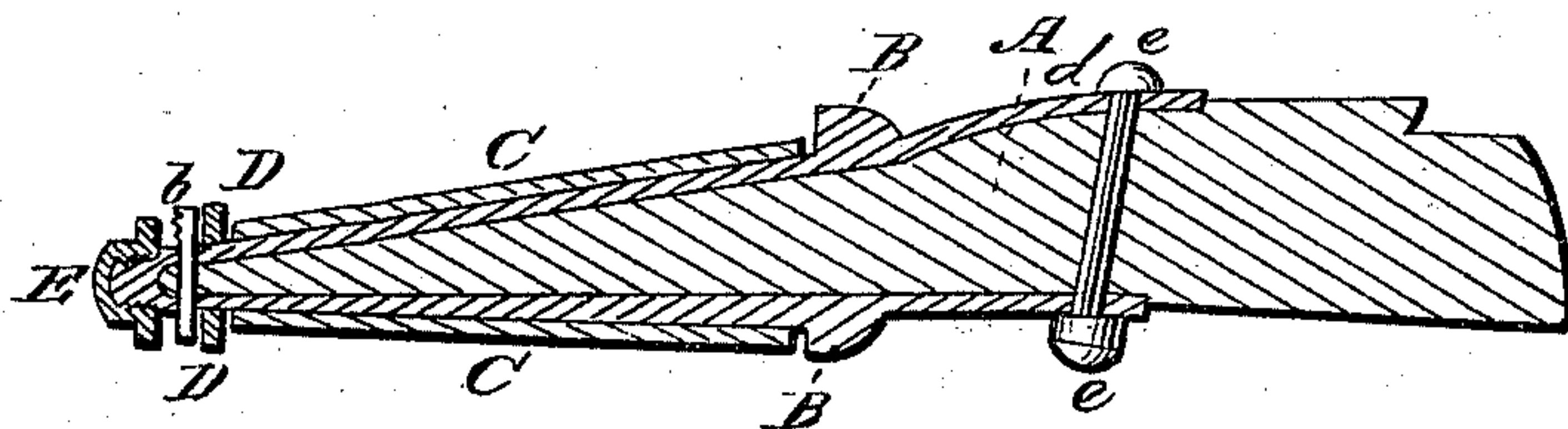


Fig. 2



Witnesses:

Job. H. Lundman
Chas. E. M. Mop

Inventor:

John C. Johnson

United States Patent Office.

JOHN C. JOHNSON, OF GOLCONDA, ILLINOIS.

Letters Patent No. 97,408, dated November 30, 1869

IMPROVEMENT IN WAGON-SKEINS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JOHN C. JOHNSON, of Golconda, in the county of Pope, in the State of Illinois, have invented a new and improved Wagon-Skein; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists of a skein, marked B, made of wrought-iron or steel, of one-fourth to three-eighths of an inch in thickness, which, from the end, (nut E,) for the distance of about two inches, is solid; from thence to the hurter-band or collar C is open or hollow.

The wooden axle-tree is driven into the skein until the end shall have passed the hole for the bolt *a*, which passes through both the wood and the skein.

The hurter-band, or collar *c*, is then shrunk on over the skein, closing it around the axle-tree.

The skein also extends back of the hurter-band, or

collar, on the top and bottom of the axle-tree, and is fastened with an iron bolt, *d*, through the axle-tree.

The box C of the wheel is secured by an iron ring, D, fastened by the bolt *b*, passing through the hole *a*, and the whole secured by the nut E, screwed on the end of the skein.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination and arrangement of a wrought-iron or steel skein, B, with a wooden axle-tree, A, secured by an iron hurter-band or collar, *c*, and the iron bolt *d*, with the combination of the nut E with the bolt *b* passing through the box C, secured by the iron ring D, and the solid end of the axle-tree A, in the manner and for the purposes herein specified.

JOHN C. JOHNSON.

Witnesses:

JOHN M. RAUM,
J. B. PERRY.