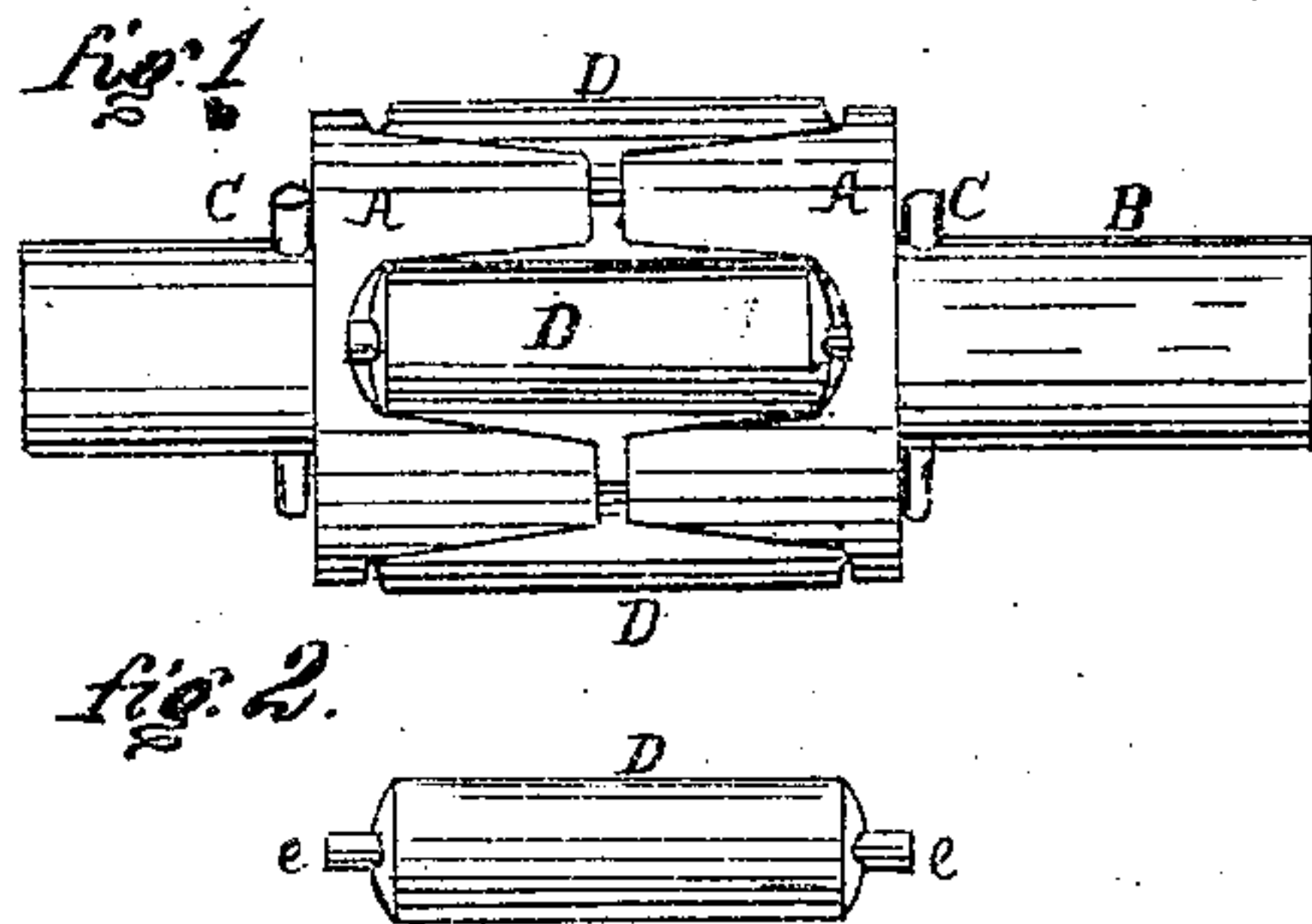


Charles W. Pierce's
Impt in Friction Rollers.

73117

PATENTED

JAN 7 1868



Witnesses:
Samuel C. Co.
Charles W. Pierce

Inventor:
Charles W. Pierce
per
Alexander H. H. H.
Att'y

United States Patent Office.

CHARLES W. PIERCE, OF ALBANY, NEW YORK.

Letters Patent No. 73,117, dated January 7, 1868.

IMPROVEMENT IN FRICTION-ROLLERS.

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, CHARLES W. PIERCE, of Albany, in the county of Albany, and in the State of New York, have invented certain new and useful Improvements in Friction-Rollers; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

In the annexed drawings, making part of this specification, A A represent two metallic collars, which slip over a shaft or axle, B. These collars have recesses or slots formed in one edge, so that when they are placed with their slotted edges or ends together, as is represented in the figure, a series of openings is formed in which to place a series of rollers, D D. The rollers D are metallic friction-rollers, and have at their ends the small journals *e e*, which rest in suitable bearings in the collars A A. The rollers are made thick enough or large enough in diameter to extend beyond the surfaces of the collars, both internally and externally, so that they will bear not only upon the shaft or axle B, but, when placed in a box, will also bear upon it, the collars A being suspended between the axle and the box. The collars A serve to hold the rollers in place, keeping them separated. These collars are held together by means of pins C C, which pass through the axle, or by any other suitable means.

It is necessary always with this device to have a suitable box to surround the rollers and the collars.

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

The collars A A, made in two parts, and provided with slots or openings, in which the rollers D D are held, as and for the purpose set forth.

In testimony that I claim the foregoing, I have hereunto set my hand, this 29th day of November, 1867.

CHARLES W. PIERCE.

Witnesses:

ROBERT H. WELLS,

WM. S. WELLS.