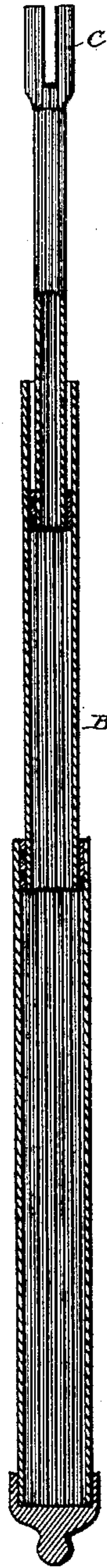
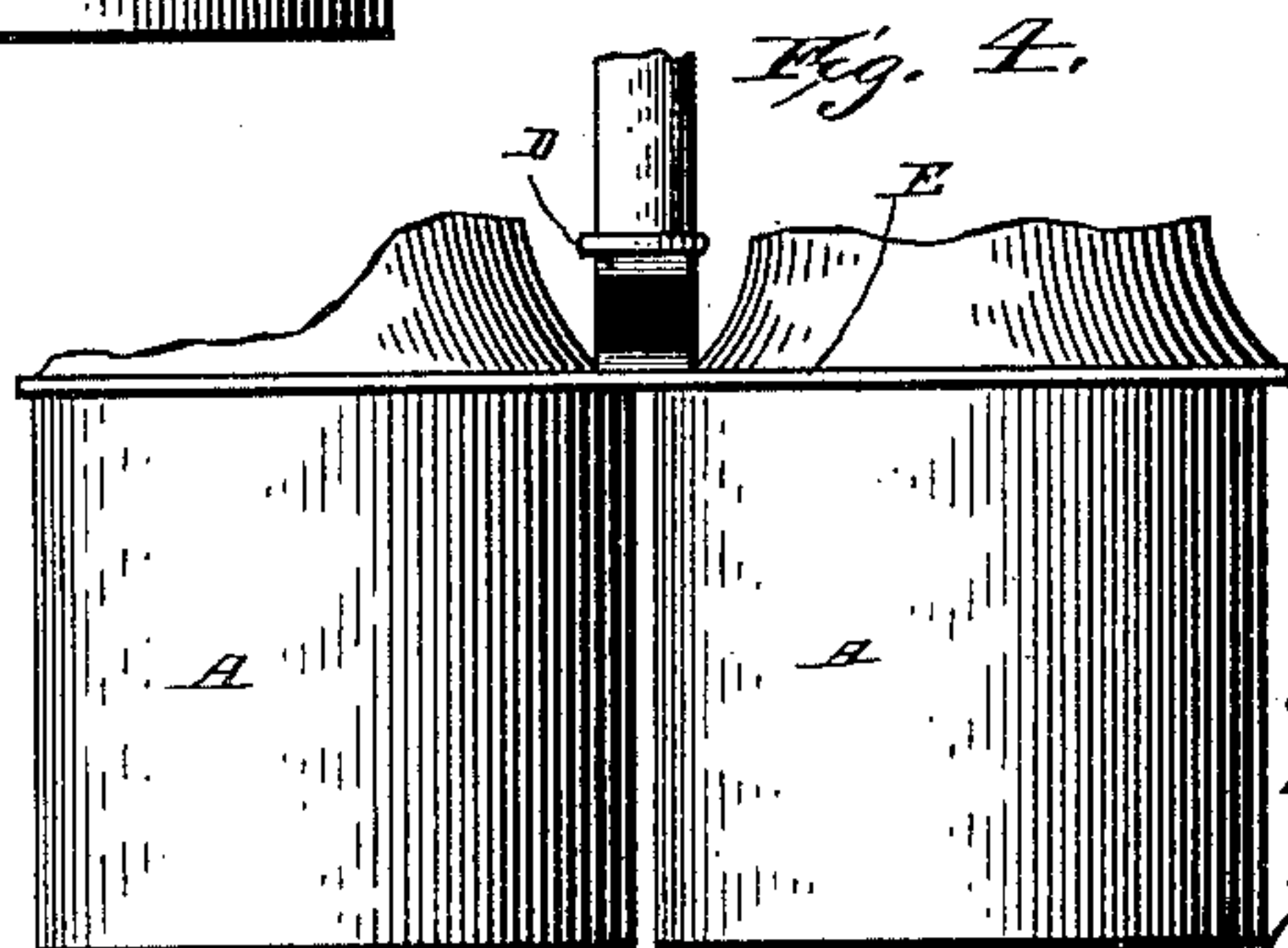
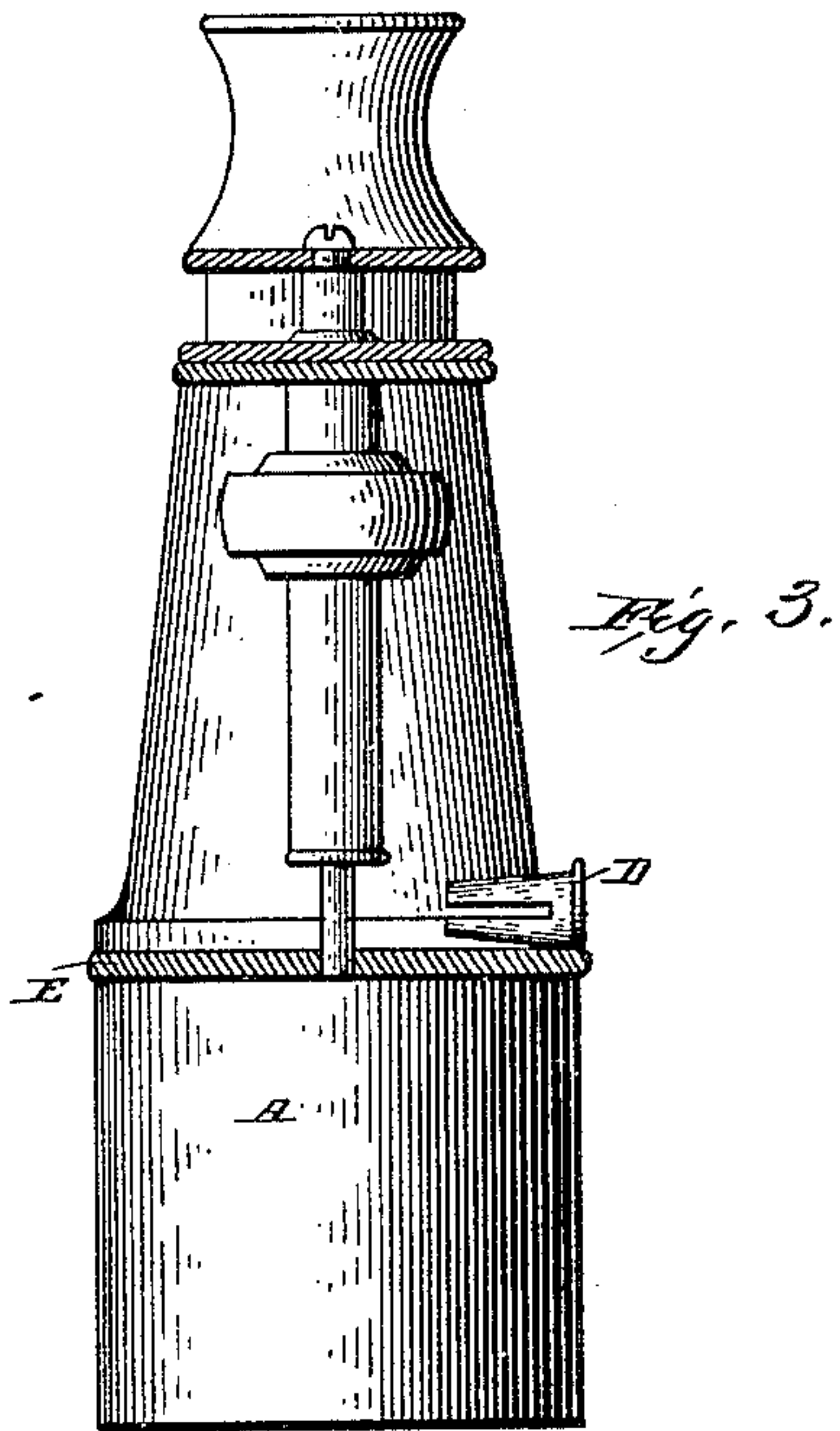
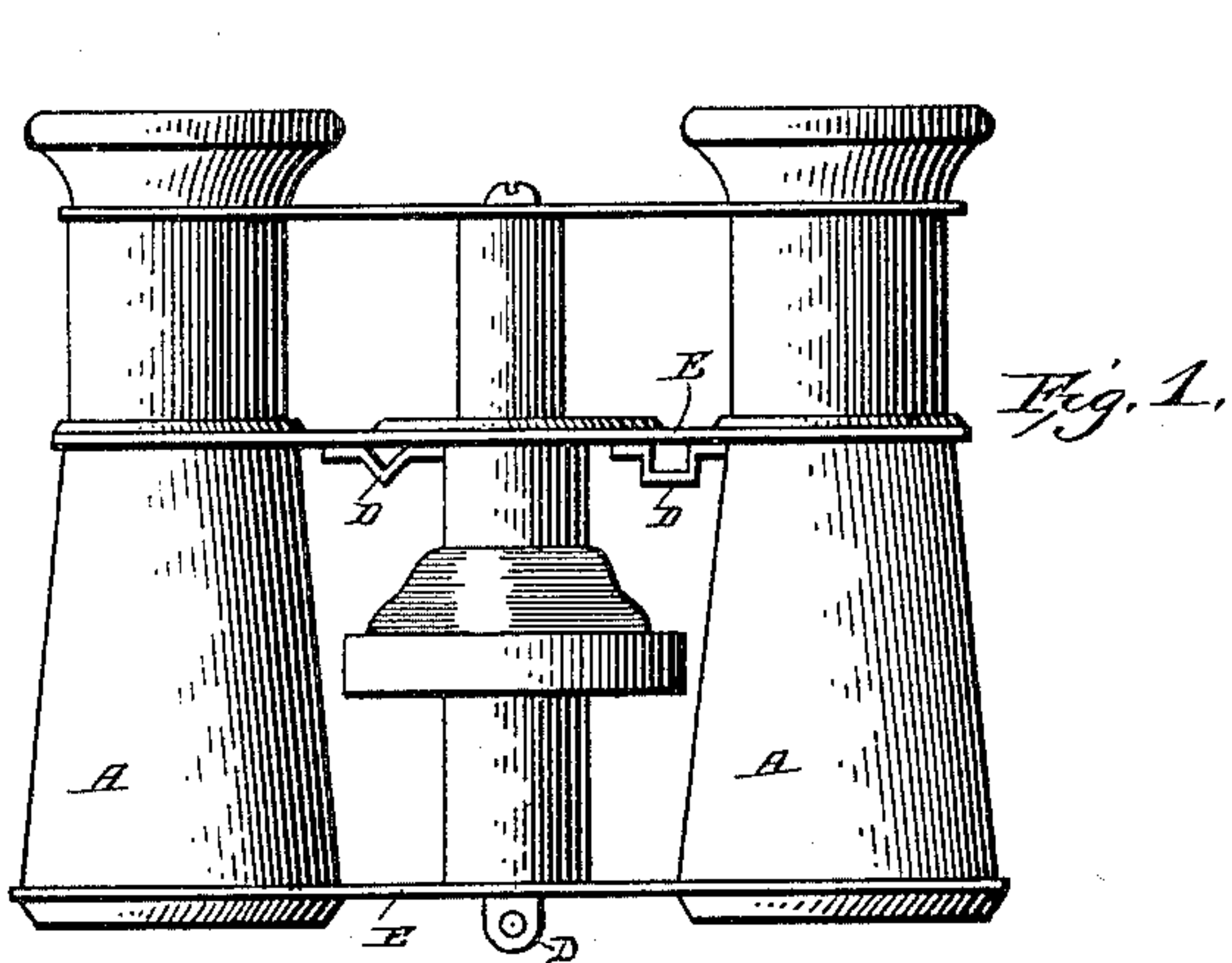


(No Model.)

W. MACK.
OPERA OR MARINE GLASS.

No. 399,542.

Patented Mar. 12, 1889.



WITNESSES;
John Edus J.
H. E. Peck

INVENTOR,
Wm. Mack
per O. E. Duffy
Attorney.

UNITED STATES PATENT OFFICE.

WILLIAM MACK, OF TERRE HAUTE, INDIANA.

OPERA OR MARINE GLASS.

SPECIFICATION forming part of Letters Patent No. 399,542, dated March 12, 1889.

Application filed July 17, 1888. Serial No. 280,163. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM MACK, of Terre Haute, county of Vigo, and State of Indiana, have invented certain new and useful Improvements in Opera or Marine Glasses or the like; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

My invention relates to an improvement in opera or marine glasses or the like; and the object of the invention is to provide an opera or marine glass or the like with one or more sockets, tubes, clamps, or sleeves to receive the end of a detachable handle, cane, or other suitable article and tightly hold the same, so that the glass can be elevated and held steadily to the eyes without raising the arms to an inconvenient height.

With these ends in view my invention consists of an opera or marine glass provided with a socket, tube, sleeve, or clamp secured to or formed with a yoke or cross-piece of the glass perpendicular to the length of the glass and open at the lower end to tightly and removably receive the end of a cane or other article serving as a detachable handle.

In the drawings, Figure 1 is an elevation of an opera-glass provided with the improved attachment, different forms being shown. Fig. 2 is a sectional elevation of a detachable handle or holder especially adapted for use in conjunction with the tubes or sleeves; and Figs. 3 and 4 are respectively a side and plan view of a marine glass, portions of the same being broken away to clearly illustrate the relative position of the socket or clamp.

Referring to the drawings, the reference-letter A indicates the opera, marine, or field glass, and B any article suitable as a detachable handle for the glass. The glass has the usual cross or yoke pieces, E, any one or all of which are provided with one or more vertical sleeves, tubes, sockets, or clamps, D, formed with or otherwise secured to the side or face of the same in a plane at right angles or perpendicular to the length of the glass. These sockets are, preferably, centrally located upon the yoke-piece and near one edge of the same, with their lower or both ends open,

and they can be of any desired form or shape, as seen in Fig. 1, to suit different forms of handles or holders.

In Figs. 3 and 4 a field or marine glass of large size and heavy weight is shown, which is provided with a socket having a lower open end and being split at its upper portion to form spring ends that impinge upon the end of the article serving as a handle, and thereby rigidly and steadily hold the glass upon the handle. These sockets are adapted to receive the end of a handle, B, which can be bifurcated, if desired, and as shown at C, Fig. 2, and which, upon being pushed in the socket, will hold the glass firmly and steadily upon the handle; or, if desired, one arm of the bifurcated end may be placed in the eye or socket and the other upon the opposite side of the yoke-piece, the end thus straddling the same.

The sockets are not limited to use with the herein-shown handle, as a rod, cane, stick, umbrella, or any other article that will serve the purpose of a handle can be used to hold a glass provided with the described socket or clamp.

The herein shown and described opera-glass holder is not claimed in the present application, but forms the subject-matter of an application for patent filed by me November 7, 1888, bearing Serial No. 290,229.

What I claim is—

1. An opera or marine glass provided with a tube, socket, or clamp secured to or formed with a cross or yoke piece of the glass in a plane at right angles to the length of the glass and adapted to removably receive and tightly hold a detachable holder or handle, substantially as described.

2. In an opera-glass or the like, the combination of a cross or yoke piece with a vertical socket, sleeve, or clamp having a lower open end and transversely located upon and secured to or formed with the cross-piece and adapted to receive and hold the end of a detachable handle for the glass, substantially as described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

WILLIAM MACK.

Witnesses:

O. E. DUFFY,

HUBERT EUGENE PECK.