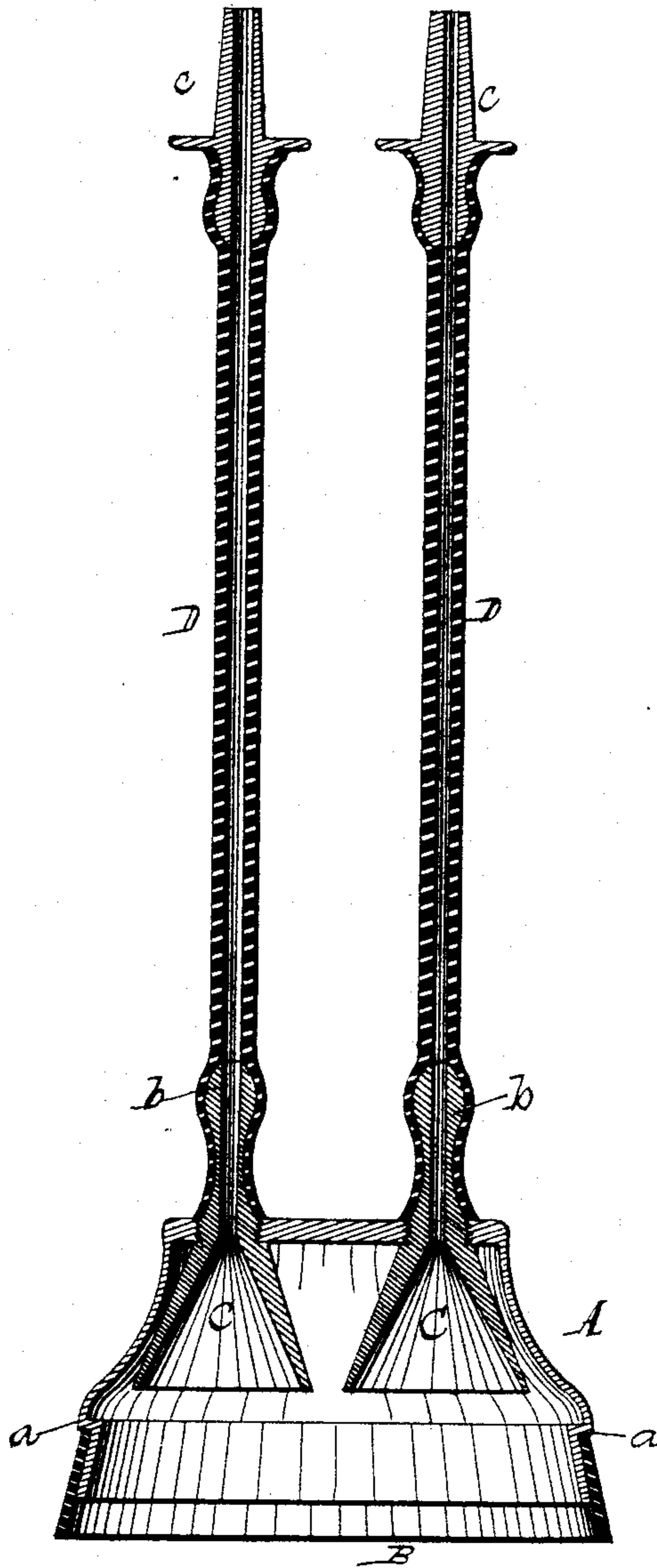


(No Model.)

B. S. BOYDSTON.
STETHOSCOPE.

No. 438,521.

Patented Oct. 14, 1890.



Witnesses:

*James M. Howard
Attorney at Law*

Inventor:

Benjamin S. Boydston

UNITED STATES PATENT OFFICE.

BENJAMIN S. BOYDSTON, OF CLUNETTE, INDIANA.

STETHOSCOPE.

SPECIFICATION forming part of Letters Patent No. 438,521, dated October 14, 1890.

Application filed September 19, 1889. Serial No. 324,465. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN S. BOYDSTON, a citizen of the United States, residing at Clunette, in the county of Kosciusko, in the State of Indiana, have invented a new and useful Improvement in Stethoscopes; and I do hereby declare the following to be a full, clear, and exact specification thereof, reference being had to the accompanying drawing, in which the figure is a sectional elevation of my improved stethoscope.

This invention relates to improvements in stethoscopes; and it consists of the novel construction and combination of parts, as will fully appear from the following description and accompanying illustration.

In the drawing, A is a large bell-shaped cup for collecting sounds, the lower flared portion of which is somewhat contracted, providing a downward-facing shoulder *a*, and upon which is fitted a rubber band B, projecting a short distance beyond the lower edge thereof and resting against said shoulder. This rubber band provides for producing a more perfect bearing or fit upon the chest of an emaciated person than would otherwise be effected.

C C are two much smaller cups, preferably funnel shape, which have screw-threaded tubular connection, as at *b*, with the top of the cup A, said smaller cups depending within the latter, receiving sound therefrom, and their tubular portions *b* projecting there-through some distance, providing for the connection therewith of rubber or flexible tubing D D, the outer ends of which are provided with tubes *c c*, which in practice are applied to the ears.

Having thus described this invention, what I claim, and desire to secure by Letters Patent, is—

The stethoscope consisting of the large bell-shaped cup and the inner smaller funnel-shaped cups connected to said large cup and provided with flexible tubing adapted for application to the ears, substantially as specified.

BENJAMIN S. BOYDSTON.

Witnesses:

CYRUS M. ALWARD,
NELSON N. BOYDSTON.