

1,061,963.

Patented May 13, 1913.

FIG. 1.

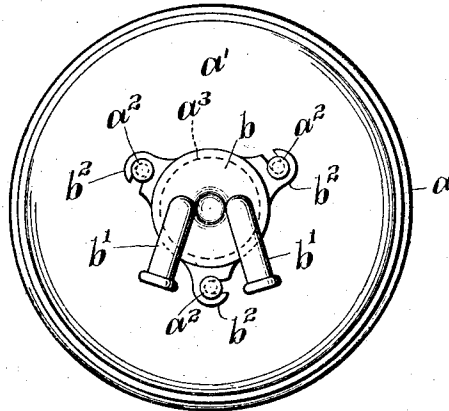


FIG. 2.

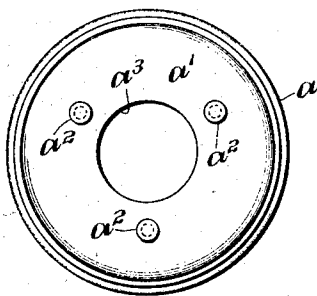
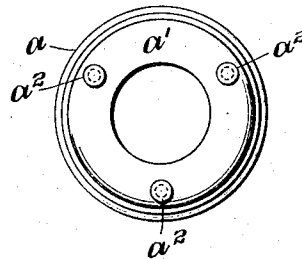


FIG. 3.



WITNESSES

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CHARLES M. ROOT, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO PENN SURGICAL MANUFACTURING COMPANY, OF PHILADELPHIA, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

STETHOSCOPE.

1,061,963.

Specification of Letters Patent.

Patented May 13, 1913.

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To all whom it may concern:

Be it known that I, CHARLES M. ROOT, a citizen of the United States, residing at the city of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Stethoscopes, of which the following is a specification.

My invention relates to stethoscopes of the type patented to me No. 821,315, under date of May 22d 1906; and in such connection it relates particularly to a detachable sound conveying tube member for employing with a diaphragm transmitting sound member so as to be quickly detachable for application to different size stethoscopes.

The nature and scope of my present invention will be more fully understood from the following description taken in connection with the accompanying drawings forming part hereof, in which—

Figure 1, is a rear elevational view of the sound conveying tube member of an ordinary stethoscope detachably connected to the diaphragm transmitting sound member, and so as to be readily adapted to different size stethoscopes, the same embodying the particular main features of my said invention; and Figs. 2 and 3, are respectively, rear views of two different sizes of diaphragm transmitting sound members of a stethoscope adapted to engage the said attachment of my invention.

Referring to the drawings *a*, is the diaphragm transmitting sound member of the stethoscope; and *b*, is the sound conveying tube member. The member *a*, on the arched back *a*¹, is provided with preferably a series of headed-pins *a*², arranged at suitable distances apart around the arched portion of said back, as clearly shown in Figs. 2 and 3.

The concaved and perforated tube member *b*, with its rear extending tubing *b*¹, has projecting from the peripheral portion thereof, a series of catches *b*², so arranged as that when the concaved member *b*, is seated in the recessed opening *a*³, of the member *a*, by turning the said member *b*, therein, the catches *b*², can be readily and quickly brought into locking engagement with the series of pins *a*², of the member *a*, to firmly hold together the two members of the stethoscope for use, and as readily to shift the member *b*, from the member *a*, to a larger size instrument which becomes necessary in the practical use of stethoscopes for organ soundings.

Having thus described the nature and objects of my invention, what I claim as new and desire to secure by Letters Patent is:—

A stethoscope having a transmitting member, a sound conveying member and means for lockingly securing said members, one element of said means connected with said transmitting member and consisting of a series of headed pins *a*², in triangular arranged position, and the other element of said means consisting of a series of catches *b*², and said means operative to attach and detach said members to and from each other by a manual rotary movement of the catches of said sound conveying member, to thereby accommodate such member to different size transmitting members, as shown and described for the purpose set forth.

In witness whereof, I have hereunto set my signature in the presence of the two subscribing witnesses hereto.

CHAS. M. ROOT.

Witnesses:

THOMAS M. SMITH,
HELEN F. MILLER.