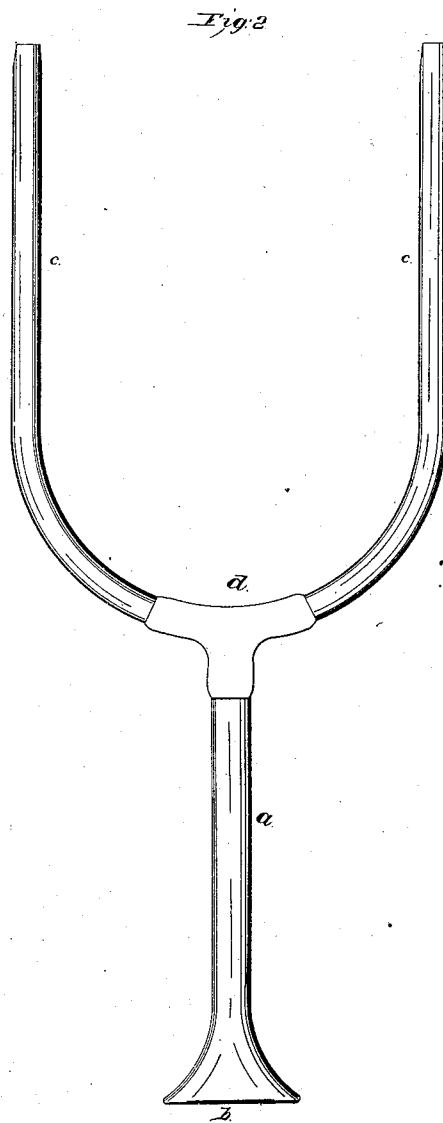
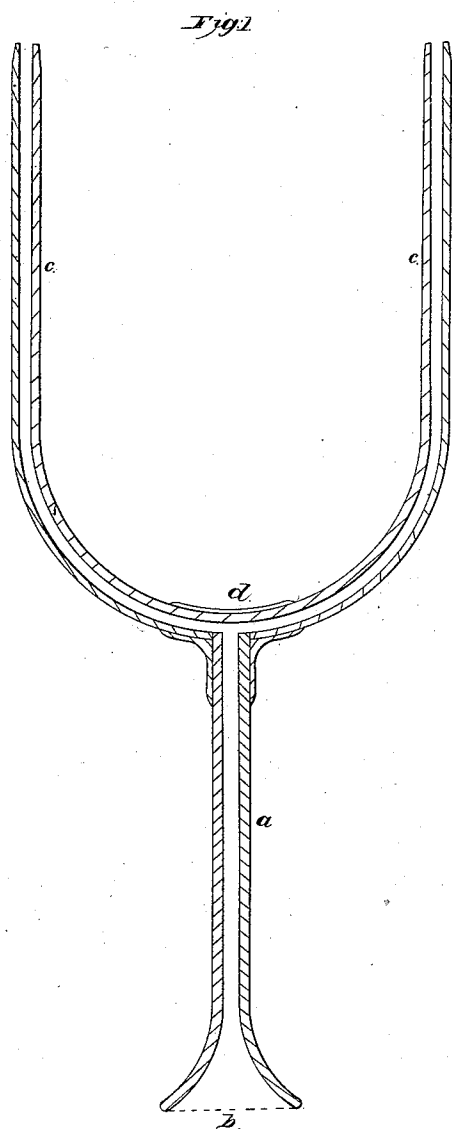


N. B. MARSH.
STETHOSCOPE AND EAR TRUMPET.



UNITED STATES PATENT OFFICE.

NATHAN B. MARSH, OF CINCINNATI, OHIO.

STETHOSCOPE.

Specification of Letters Patent No. 8,591, dated December 16, 1851.

To all whom it may concern:

Be it known that I, NATHAN B. MARSH, of Cincinnati, county of Hamilton, State of Ohio, have invented a new and useful Improvement in the Stethoscope and Ear-
5 Trumpet; and I do hereby declare that the following is a full and exact description thereof, reference being had to the annexed drawings, the same making part of the
10 specification.

Figure 1 is a vertical section through the stethoscope and ear trumpet. Fig. 2 is a plain elevation showing the trunk and branches extending from the same.

15 Similar letters in the figures refer to corresponding parts.

The nature of my invention and improvement consists in connecting a double branch *c c* with the trunk *a* at the end *d*, so as to
20 enable the person spoken to, to place one of the branches *c c* in each ear which enables him to get the full effect of the speaker or sound which passes in at *b* through trunk *a*, and thence to the end of the branches *c c*
25 and operate on each set of auditory nerves which renders the sounds more distinct by employing each ear simultaneously.

When a patient is examined for medical purposes, the bell shaped end *b* of trunk *a*
30 is placed upon the part to be examined,

while the examiner places the ends of branches *c c* in the portals of his ears which are tapered to fit the portals of the ears at *c c*.

To enable others skilled in the art to make 35 and use my invention, I will proceed to describe its construction.

a is the main trunk of the instrument, made of india rubber piping and bell mouthed at *b* by flaring out the india rubber piping 40 or attaching a bell mouth made of different material such as bone, horn, or wood as circumstances require. The double branch is made of the same material and connected at *d* by inserting the trunk *a* into the branch *c c* 45 and joining the two with a solution of gutta percha in chloroform or with such material as will render it air tight. The ends of the branches are tapered as may be seen at *c c* 50 so as to fit the portals of the ears.

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

The double branch *c c* connected with the main trunk *a* so as to enable persons to use both ears simultaneously, substantially as 55 herein set forth and described.

NATHAN B. MARSH.

Witnesses:

D. T. SNEELAKER,

A. G. N. CARTER.