

(No Model.)

F. R. SHAW.
MECHANICAL TELEPHONE.

No. 328,258.

Patented Oct. 13, 1885.

Fig. 2.

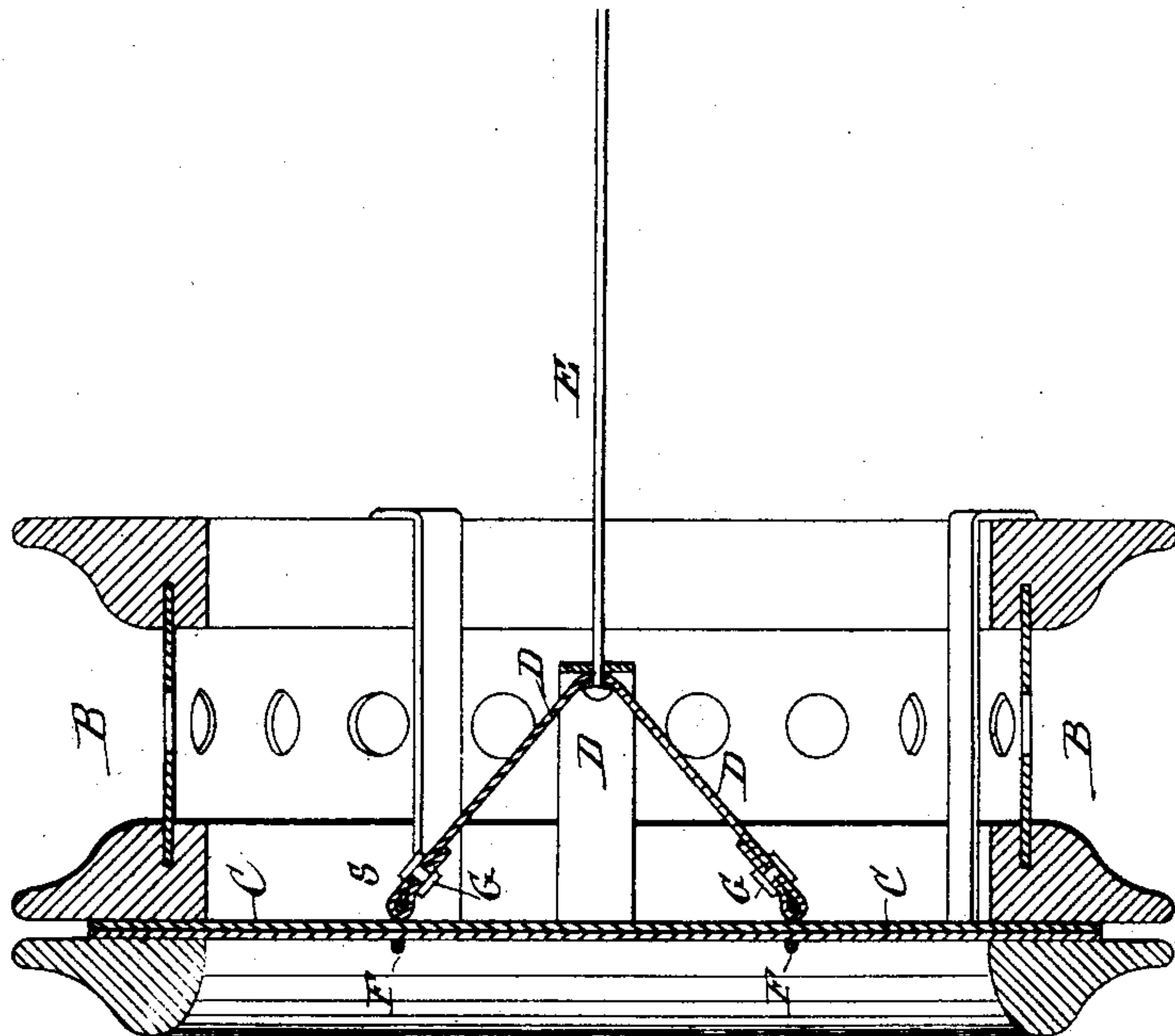
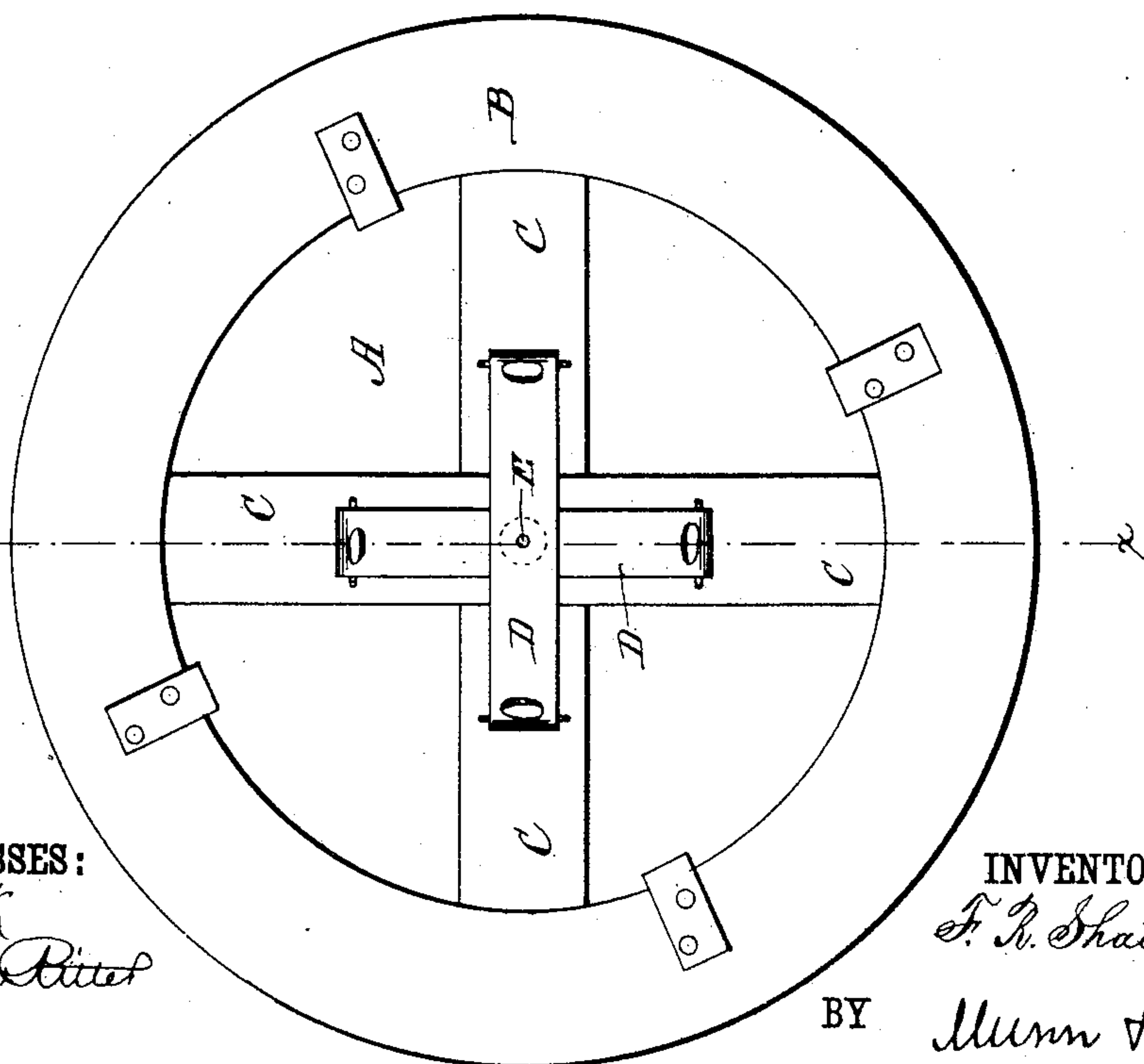


Fig. 1.



WITNESSES:
C. Sedgwick
Geo. Mather Pitts

INVENTOR:
F. R. Shaw
BY *Munn & Co*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

FRANCIS R. SHAW, OF CHATHAM CENTRE, OHIO.

MECHANICAL TELEPHONE.

SPECIFICATION forming part of Letters Patent No. 328,258, dated October 13, 1885.

Application filed May 26, 1885. Serial No. 166,740. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS R. SHAW, of Chatham Centre, Medina county, Ohio, have invented a new and Improved Mechanical
5 Telephone, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved sound-transmitting instrument for mechanical telephone-lines.

10 The invention consists in the peculiar construction and arrangement of parts, as hereinafter fully described, and pointed out in the claim.

Reference is to be had to the accompanying
15 drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both figures.

20 Figure 1 is a rear view of my improved mechanical telephone, and Fig. 2 is a cross-sectional elevation of the same on the line $x x$, Fig. 1.

25 The diaphragm A, made of some suitable fabric or fibrous material, is held in the circular frame B in the usual manner. It may be strengthened on the back by crossed bands C, of duck or canvas. Two or more bands, D, of duck, canvas, or any other fibrous material, are secured to the back of the diaphragm

and crossed, and the conducting-wire E is passed through the crossed bands at the intersection and held to the same by forming a head or enlargement on the end of the wire. 30

As shown in the drawings, small loops F are held on the back of the diaphragm, and are connected with the ends of the bands C by
35 metal rivets G.

I have shown two crossed bands; but any number may be used, so that the sound can only be transmitted between the line-wire and the diaphragm through the said bands D, 40 whereby the harsh metallic ring is avoided which is produced when the connections between the line-wire and the diaphragm are made of metal.

Having thus described my invention, I claim 45 as new and desire to secure by Letters Patent—

In a telephone, the combination, with the diaphragm A of fibrous material, having the loops F secured thereto, of the line-wire connecting-strips D, crossing each other and hav- 50 ing their ends secured to the said loops, substantially as herein shown and described.

FRANCIS R. SHAW.

Witnesses:

L. M. GRANT,
J. C. SNELL.