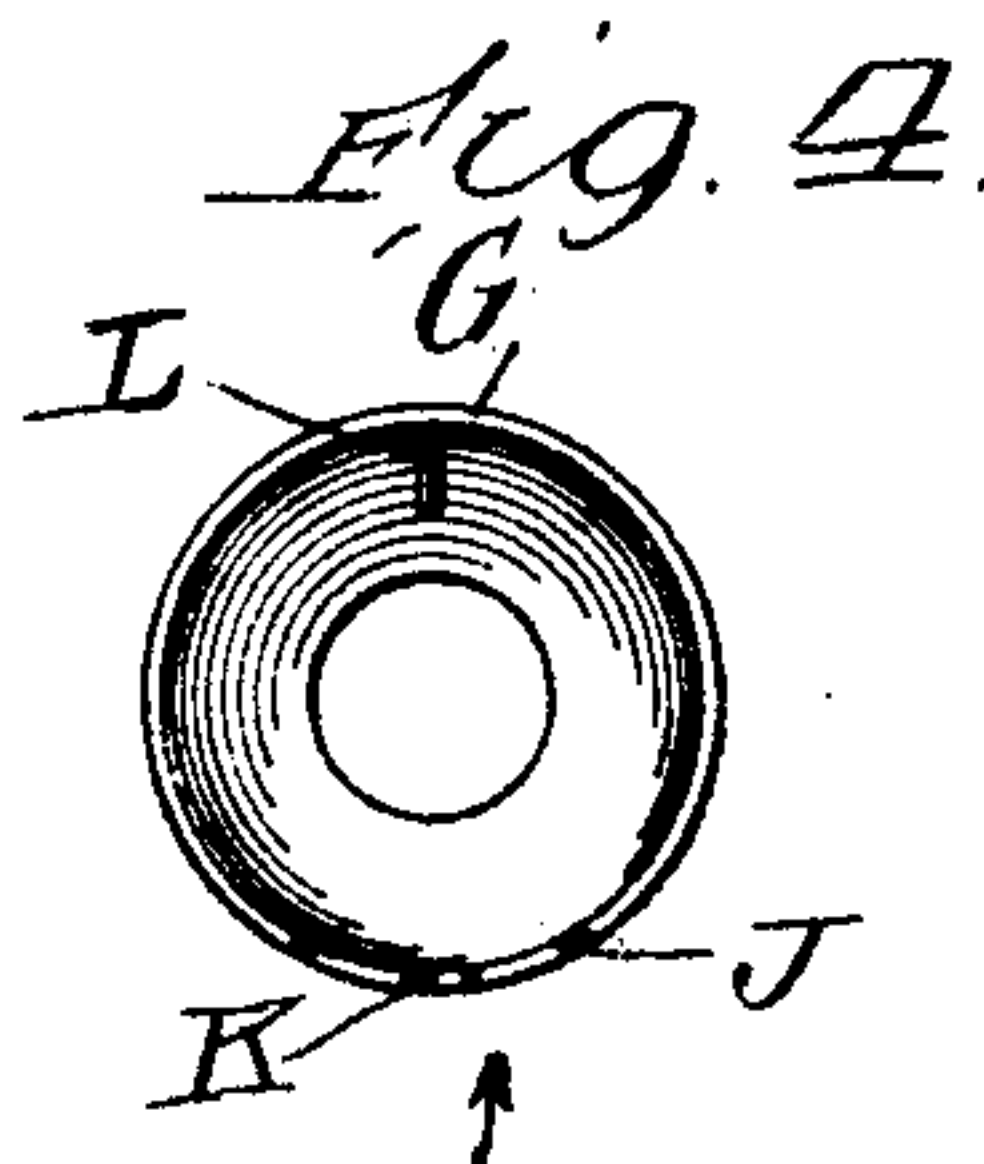
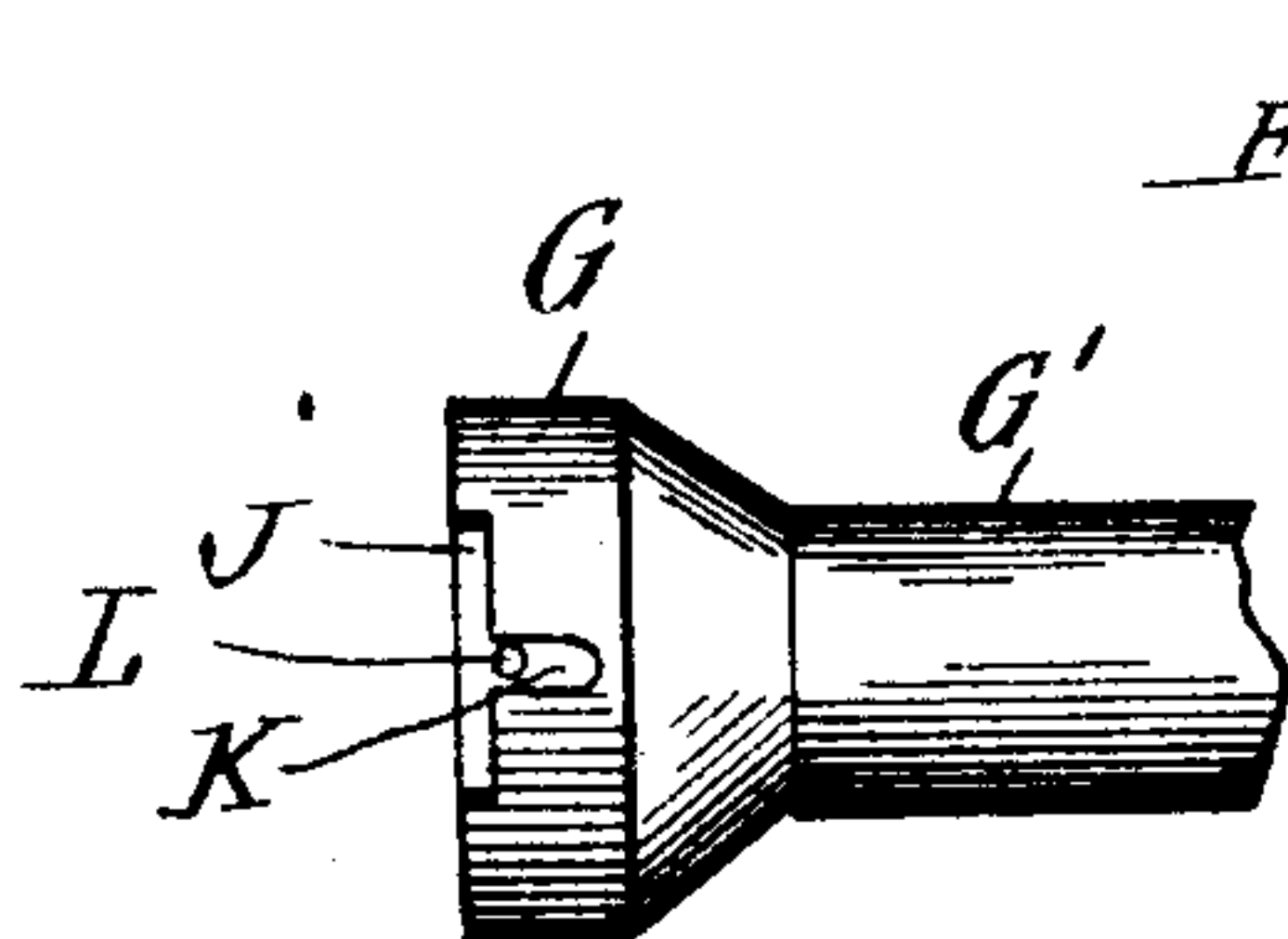
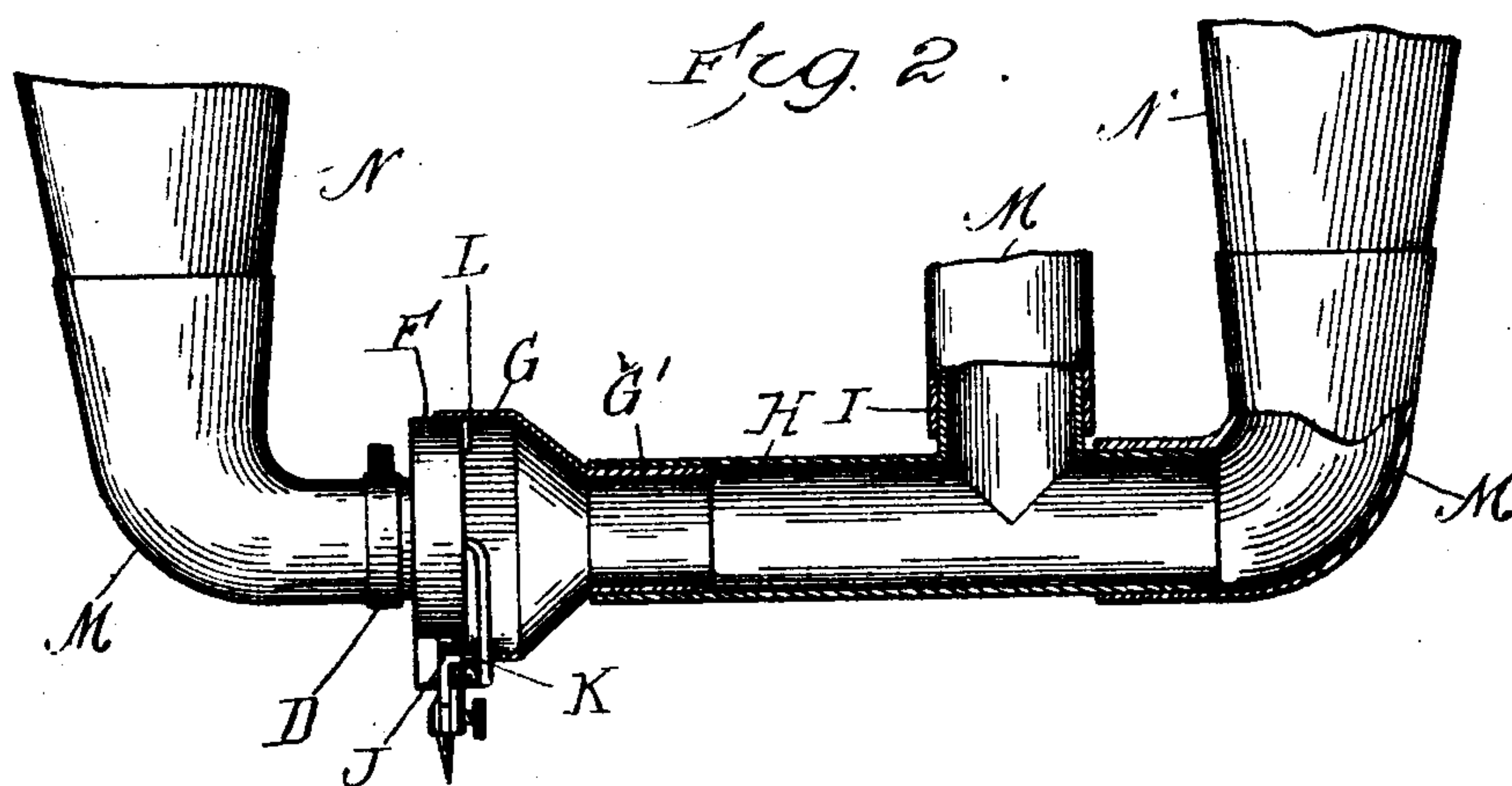
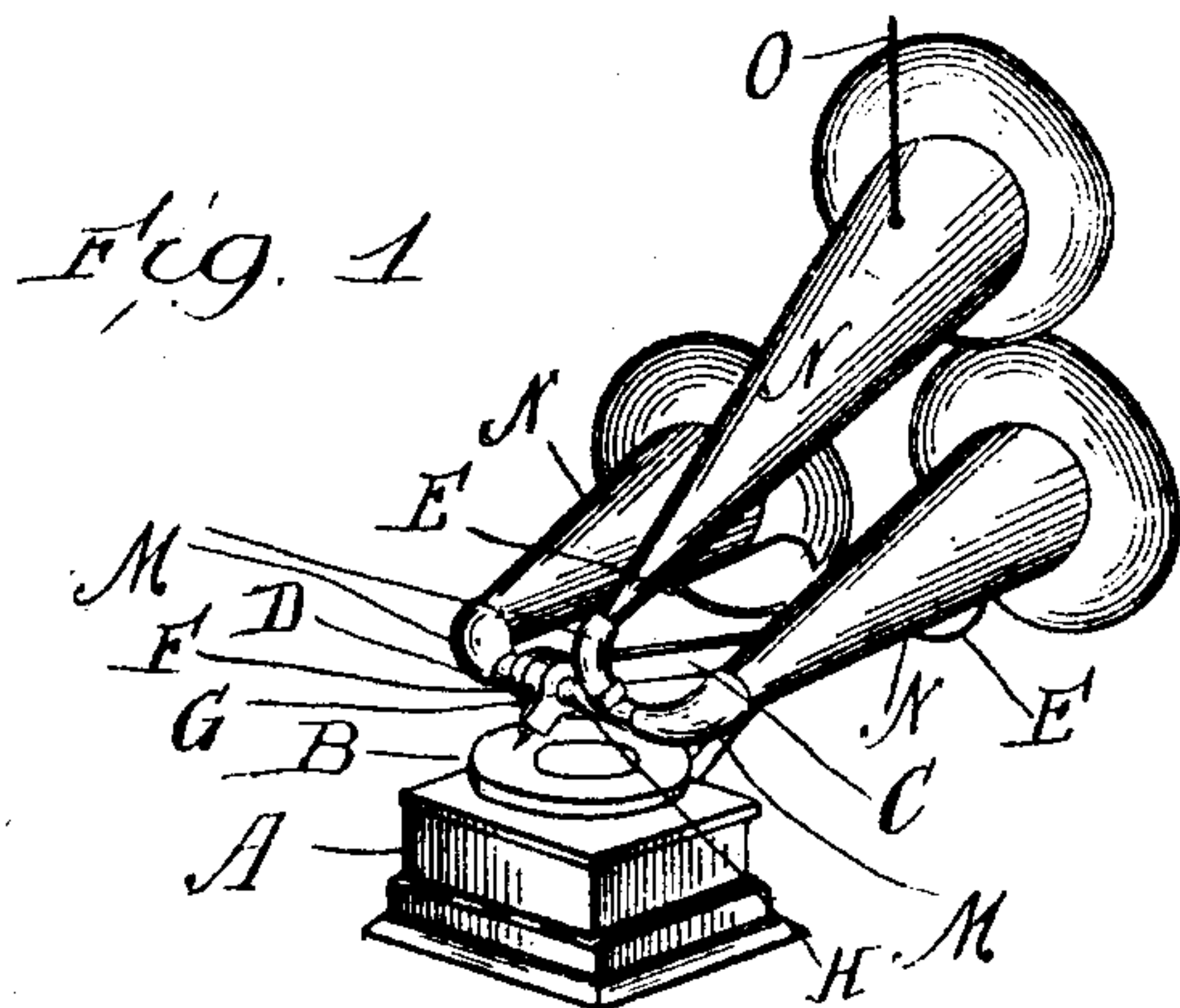


No. 799,055.

PATENTED SEPT. 12, 1905.

C. HILGENBERG.
GRAMOPHONE.

APPLICATION FILED DEC. 22, 1904.



Witnesses:
Harry P. LeWhite
Ray White.

Inventor:
Conrad Hilgenberg

By Morgan & Robinson Attys.

UNITED STATES PATENT OFFICE.

CONRAD HILGENBERG, OF CHICAGO, ILLINOIS.

GRAMOPHONE.

No. 799,055.

Specification of Letters Patent.

Patented Sept. 12, 1905.

Application filed December 22, 1904. Serial No. 237,954.

To all whom it may concern:

Be it known that I, CONRAD HILGENBERG, a citizen of the United States, residing at 96 Twenty-fourth Place, in the city of Chicago, county of Cook, and State of Illinois, have invented a new and useful Improvement in Gramophones, of which the following is a specification.

My improvement relates to that part of the gramophones described as the "reproducer" and the connections with that part and the horn.

The object of my invention is to provide a cheap and simple device by which one or more horns may be attached to the ordinary gramophone for the purpose of increasing the sound and improving the tone of the instrument. The manner in which I accomplish this object is described in the following specification and illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the gramophone with my device attached. Fig. 2 is an enlarged view, partly in section, of my device attached to the gramophone. Fig. 3 is a detail view of a conical box forming part of my device. Fig. 4 is an inside plan view of the box shown in Fig. 3.

In the drawings, A indicates the ordinary gramophone-box, containing the operative mechanism supporting the disk B. This box also supports a bracket (not shown) carrying an arm C, having a ring D. In this ring the box F, containing the reproducing mechanism, is adjustably held. The arm C also supports adjustable arms E, which are adapted

to support the horns N. The conical box G is flanged to fit tightly on the periphery of the box F and is recessed at J and K to admit the projecting mechanism of the reproducer. The box G is extended at G' and is thereby adapted to support a tube H. The tube H is constructed with a part I at right angles to the length of the tube and adapted to support an elbow M. The end of the tube is also adapted to support another elbow. The two elbows thus supported and connected are adapted to each support a horn N.

The several parts herein described are adapted to be slipped together and disconnected easily and quickly, the stop-pin L limiting the adjustment of the box G on the box F and the adjustment of the arms E and suspension-wire O regulating the positions of the horns in relation to each other.

What I claim as new, and desire to secure by Letters Patent, is—

The combination with a gramophone of the kind described, of a device consisting of a conical box G having recesses J and K, a stop-pin L and extension G'; a tube H having a projection I, said tube being adapted to fit the extension G' of the box G; and elbows M adapted to fit the part I and the end of the tube H, and to support the horns N; and supporting-arms E and suspending-wire O, substantially as described and for the purposes specified.

CONRAD HILGENBERG.

Witnesses:

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THOMAS J. MORGAN.