

(No Model.)

C. G. CONN.  
CLARINET.

No. 410,072.

Patented Aug. 27, 1889.

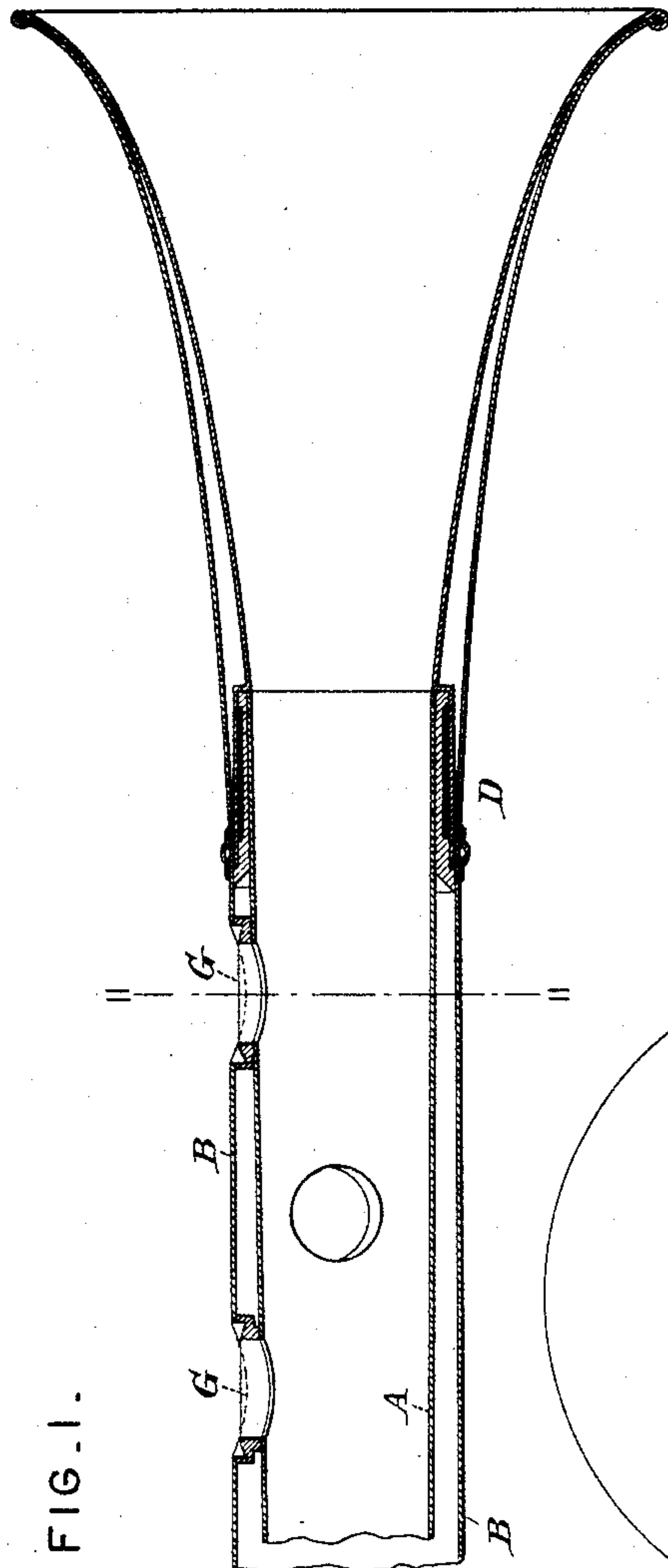


FIG. I.

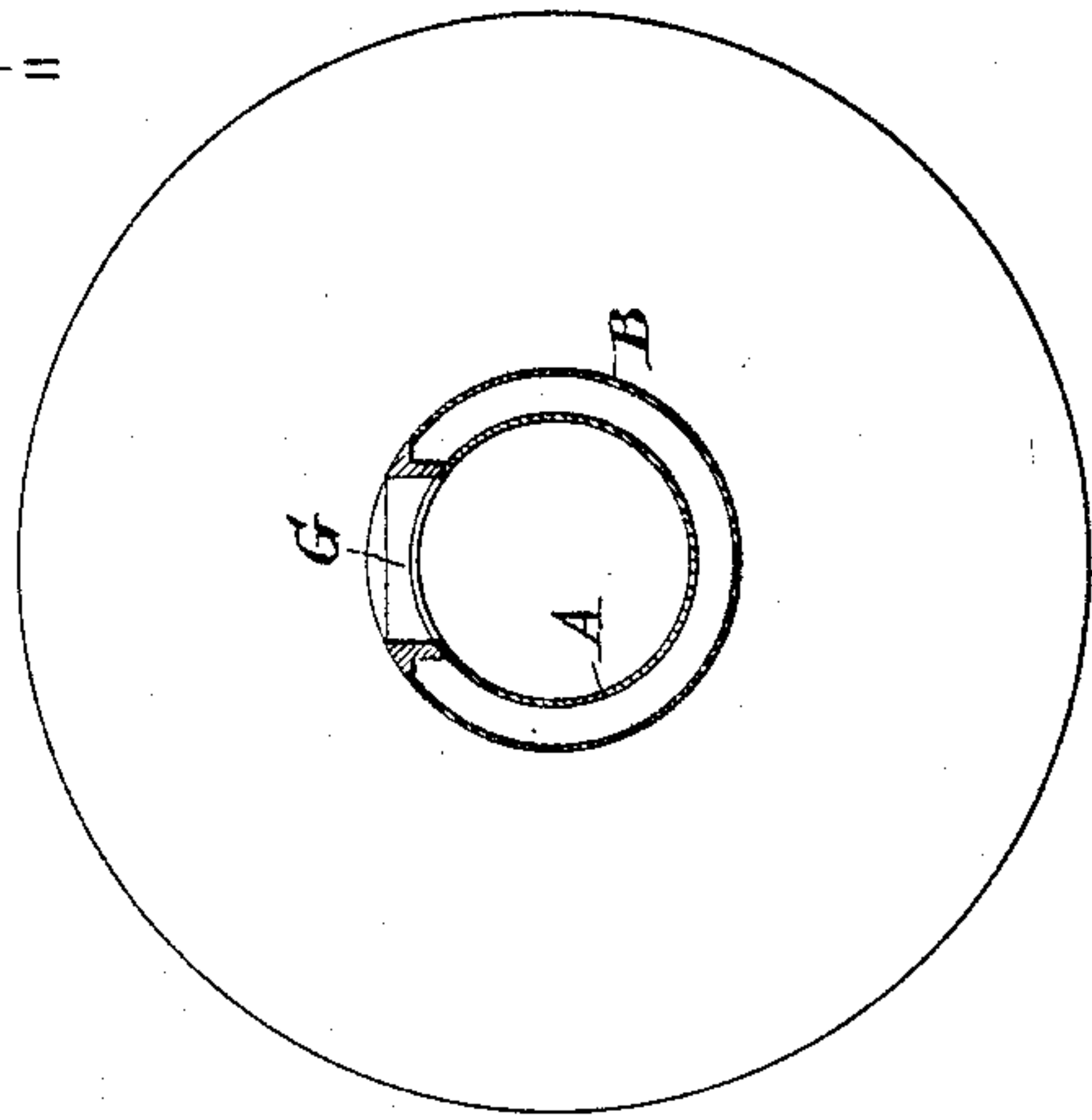


FIG. II.

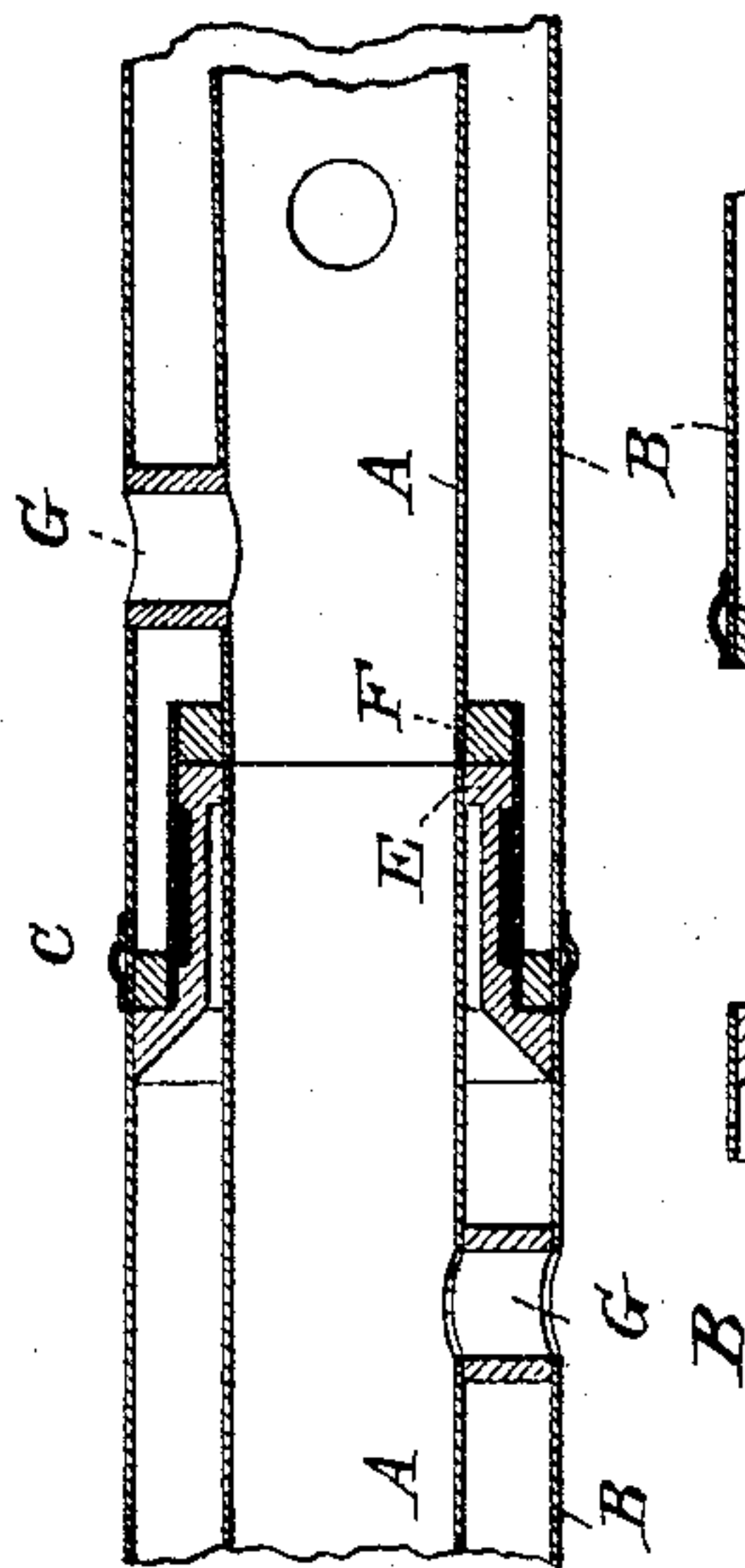
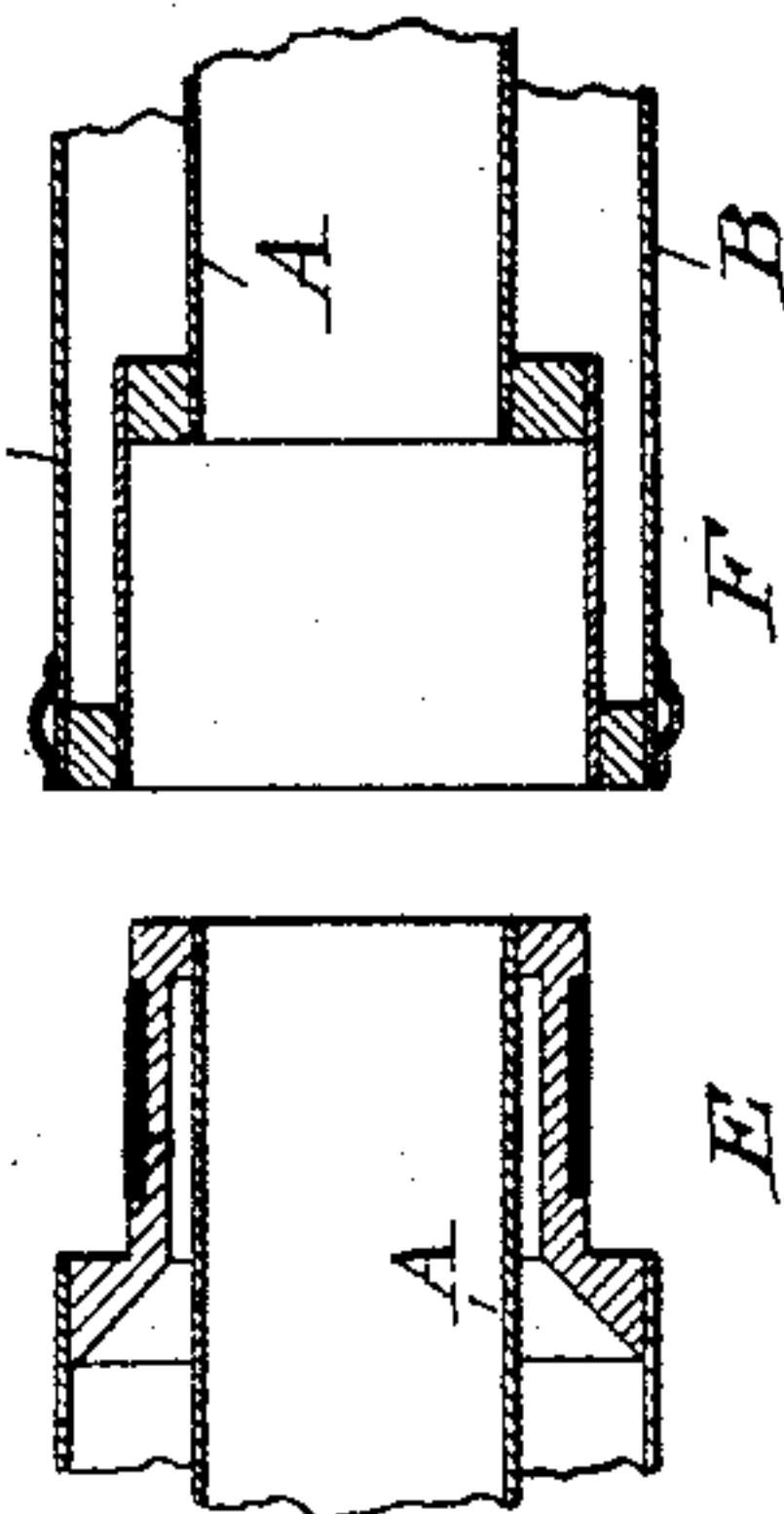


FIG. III.



*Attest*  
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*Charles G. Conn.*  
*by Knight Bros.*  
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# UNITED STATES PATENT OFFICE.

CHARLES G. CONN, OF ELKHART, INDIANA.

## CLARIONET.

SPECIFICATION forming part of Letters Patent No. 410,072, dated August 27, 1889.

Application filed May 23, 1889. Serial No. 311,862. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES G. CONN, a citizen of the United States, residing at Elkhart, in the county of Elkhart and State of Indiana, have invented certain new and useful Improvements in Clarionets and other Wind-Instruments, of which the following is a specification.

My improvement relates to wind-instruments of the clarionet, flute, and other analogous types; and it consists in constructing the body of the instrument of two concentric cylinders, preferably of metal. The passages to form connection of the air-vibrations with the atmosphere with instruments as ordinarily constructed of a solid shell of wood are formed simply by radial holes; but in my improved form they are formed of short radial tubes extending through the space between the concentric tubes of which the body of the instrument is constructed.

In the accompanying drawings, Figure I is a longitudinal section of the body of a clarionet embodying my invention. Fig. II is a transverse section of the same on the line II II, Fig. I. Fig. III is a detail longitudinal section showing the parts detached.

A represents the inner shell or tube of the instrument, forming the wind-passage, and B the outer shell or tube concentric therewith, both preferably made of metal and tightly connected at the extremities of each section of the instrument, as shown at C D, the customary slide-joint being formed by shoulders E F in the outer tube or body B, leaving the internal bore smooth and unobstructed, as in instruments having the customary solid wooden body. The radial passages for connecting the interior air-vibrations with the outer atmosphere, which in use are stopped

at will by the use of the fingers or by keys of ordinary construction, are formed of tubes G, tightly connected at their inner and outer ends with the concentric tubes A B, respectively, and formed to provide smooth passages for the air without obstructions either in their own surfaces or in the inner surface of the tube A.

In all other respects the instruments may be constructed in any of the usual forms, with customary finger-holes and key-holes arranged in any manner.

The invention is applicable to clarionets and like reed-instruments and to flageolets, and also to flutes, fifes, and instruments of this class.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

1. A wind-instrument formed with a hollow body of two concentric tubes, with radial air-passages to form connections from the interior of the body with the outer air, substantially as set forth.

2. The combination of the inner tube or body A and the outer tube or body B, tightly connected together at the extremities of the sections of the instrument to provide the customary joint 5, as described.

3. The combination of the inner tube or body A and the outer tube or body B, tightly connected at their ends, and the radial tubes G, forming air-passages to communicate from the interior of the instrument to the outer air, as and for the purposes explained.

CHARLES G. CONN.

Witnesses:

GEO. T. BARNEY,  
CORA PALMER.