

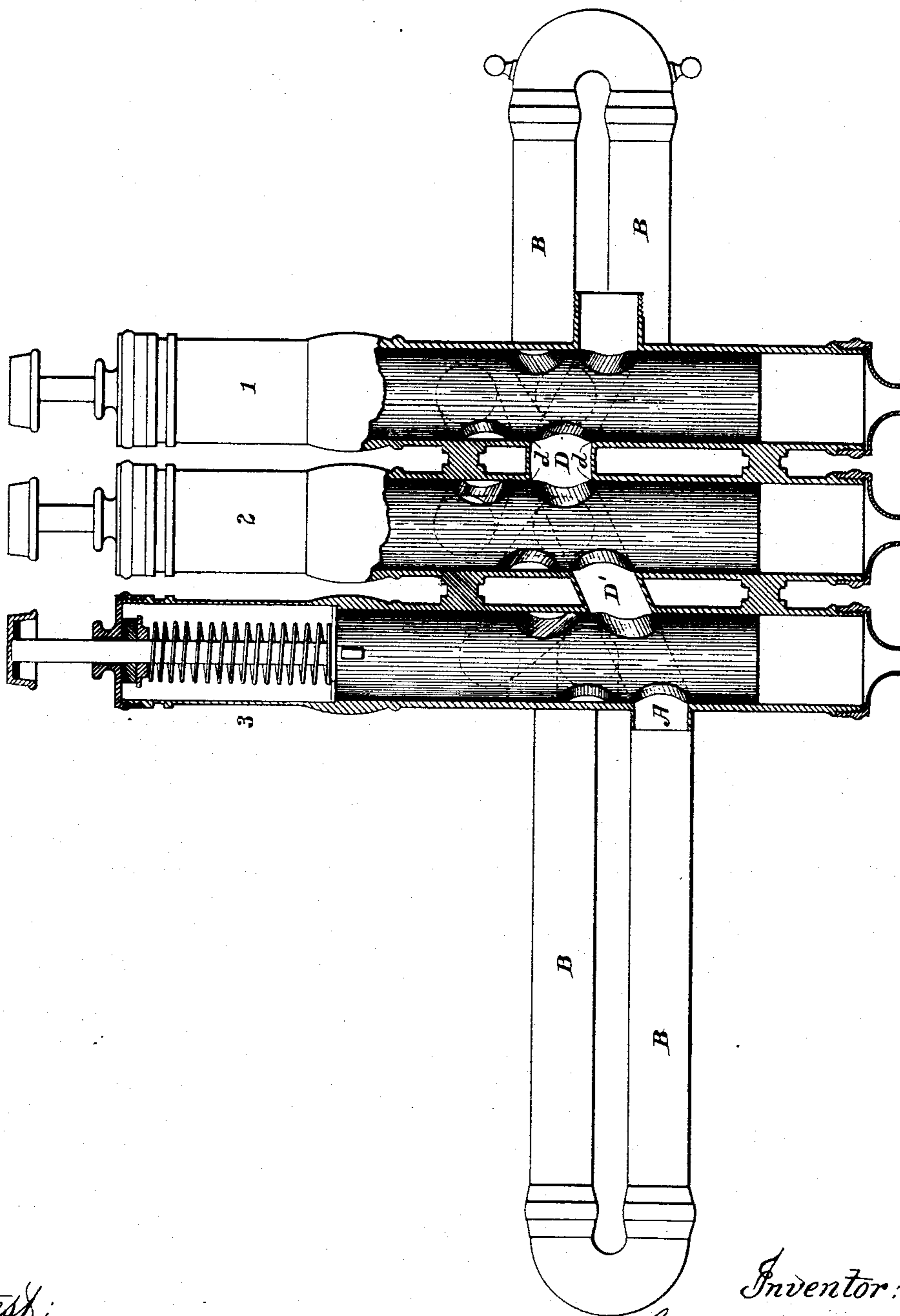
(No Model.)

C. G. CONN.

CORNET.

No. 343,888.

Patented June 15, 1886.



Attest:

Geo. T. Smallwood.  
Edmund Star.

Inventor:

Charles G. Conn.

By *Wright & Co.*

*attys.*

# UNITED STATES PATENT OFFICE.

CHARLES G. CONN, OF ELKHART, INDIANA.

## CORNET.

SPECIFICATION forming part of Letters Patent No. 343,888, dated June 15, 1886.

Application filed August 28, 1885. Serial No. 175,569. (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 Cornets and other Piston-Valve Musical Instruments, of which the following is a specification.

My improvements have in view the increasing of the directness of passage of air from one valve to another of a cornet or other piston-valve musical instrument. With this end in view I employ, in combination with a curved connecting-pipe between the first and second valve-cylinders, a straight diagonal pipe connecting the second and third valve-cylinders, starting on about the level of the first connecting-pipe and ending on about the level of the air-pipe.

In order that my invention may be more fully understood, I will proceed to describe it with reference to the accompanying drawing, which represents in section longitudinal of the valve-cylinders a portion of a cornet embodying my improvement.

The cornet is constructed with customary air-pipe, A, valve-bends B, and valve-cylinders 1 2 3. Connecting the valve-cylinders are pipes D D', the first curved, as shown, to present at *d d* obtuse angles, so as to interrupt as little as possible the passage of the air, while the second, D', is made straight and arranged diagonally between the cylinders 2 3 from opposite the valve-opening to pipe D to opposite the valve-opening to pipe A. These openings

being arranged diagonally, the connecting-pipe D forms a direct continuation thereof, and thus offers no angles resisting the passage of the air.

It will be observed that the position of the connections D D' may be reversed from that here shown, the diagonal connections D' being arranged between the first and second valve-cylinders, and the curved connection D between the second and third valve-cylinders, without materially injuring the effectiveness of the connections as means of preventing the breaking up of the air passing therethrough. It will be seen that two of the valve-apertures are made in one direction with an upward inclination, and the third valve is made in the same direction with a downward inclination. This permits me to shorten the valve-piston one-half the width of the aperture, or nearly half an inch.

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

In a cornet or other piston-valve musical instrument, in combination with a curved connecting-pipe between the first and second valve-cylinders, a diagonal connecting-pipe between the second and third valve-cylinders, both connecting-pipes lying in the plane of said cylinders and arranged substantially as and for the purpose set forth.

CHARLES G. CONN.

Witnesses:

E. C. BICKEL,  
C. W. FISH.