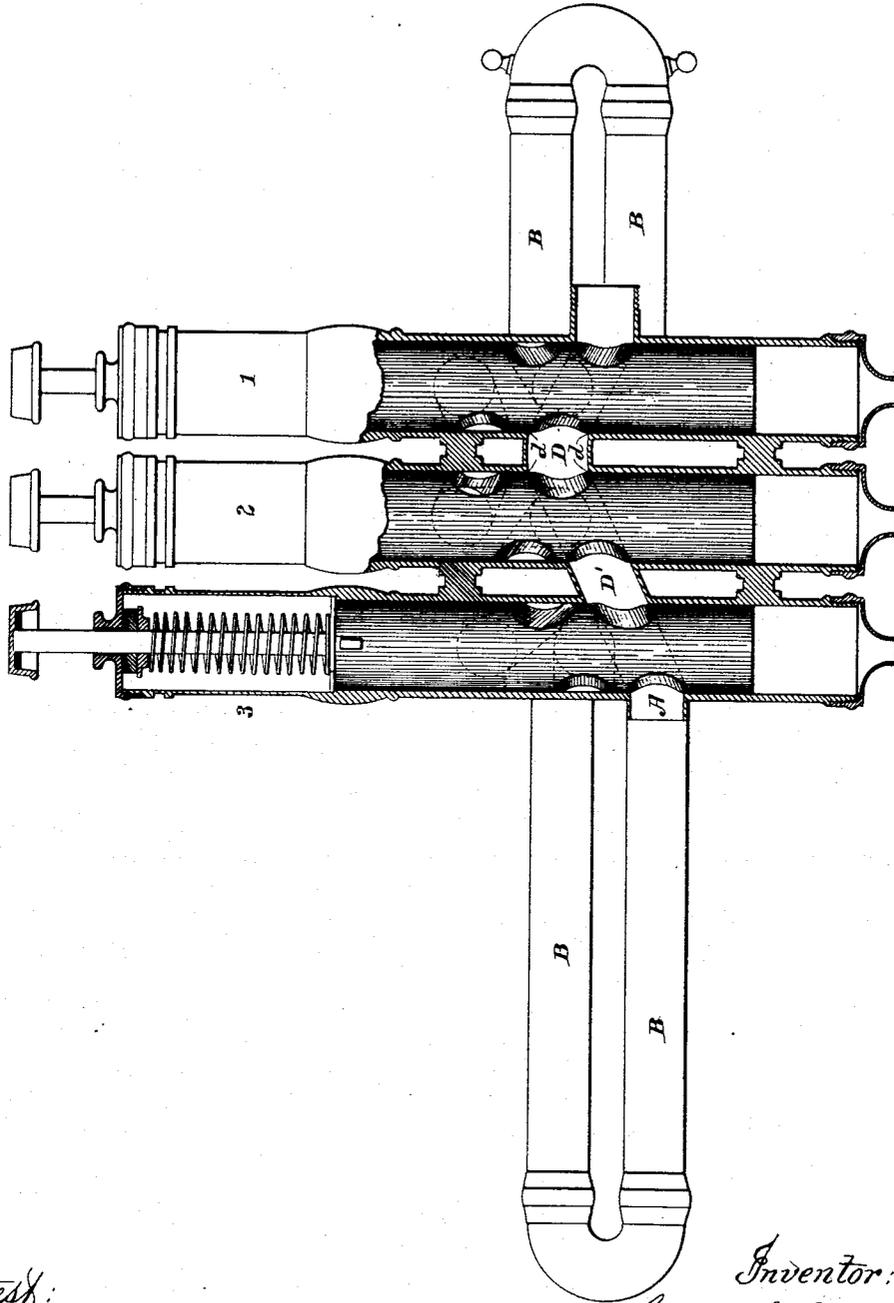


(No Model.)

C. G. CONN.
CORNET.

No. 343,888.

Patented June 15, 1886.



Attest:

Geo. P. Smallwood,
Edmund Star

Inventor:

Charles G. Conn.

By Knight

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 23, 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.