

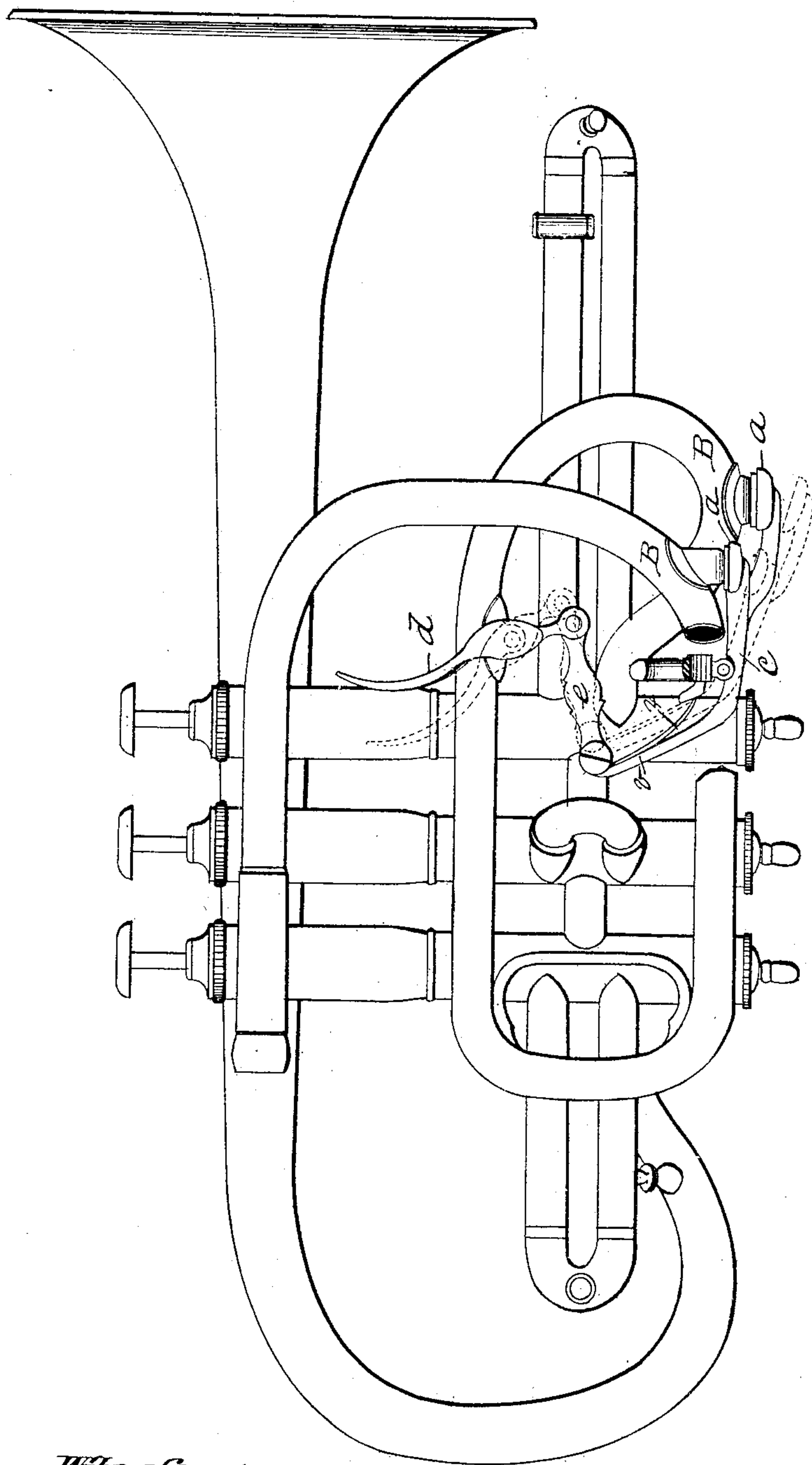
(No Model.)

J. HEALD.

WATER KEY FOR BRASS MUSICAL INSTRUMENTS.

No. 265,498.

Patented Oct. 3, 1882.



Witnesses,
R. F. Hyde
W. C. Chapin.

Inventor;
John Heald
By Henry A. Chapin
Atty

UNITED STATES PATENT OFFICE.

JOHN HEALD, OF SPRINGFIELD, MASSACHUSETTS, ASSIGNOR TO CHARLES
W. HUTCHINS, OF SAME PLACE.

WATER-KEY FOR BRASS MUSICAL INSTRUMENTS.

SPECIFICATION forming part of Letters Patent No. 265,498, dated October 3, 1882.

Application filed July 25, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOHN HEALD, a citizen of the United States, residing at Springfield, in the county of Hampden and State of Massachusetts, have invented new and useful Improvements in Water-Keys for Brass Musical Instruments, of which the following is a specification.

This invention relates to brass musical instruments; and it consists of an improved construction of the water-key for cornets and analogous instruments, the object being to provide improved devices for operating the water-valve thereof, whereby the player is not required to remove the instrument from his mouth nor his hand from the instrument in order to operate the water-valve.

In the drawing forming part of this specification is illustrated a cornet constructed with appliances for operating the water-valve thereof, embodying my invention.

In the drawing, B B are the air-conductors of the cornet to which the water-valves are applied, *a a* indicating said valves. *c* is a forked lever, to the ends of the arms of which said valves are secured in the ordinary way. Said lever *c* is pivoted to the lower part of the instrument, as usual; but instead of carrying its shank *v* rearward thereunder and supplying it with a finger-hook for operating it to open the valves, as is usually done, said shank is turned upward, as shown, and has pivoted to its end a

link, *e*. The opposite end of said link *e* is pivoted to the lower end of a pivoted lever, *d*, whose upper long arm reaches upward to a convenient point, where it can be reached by one of the fingers of the player, and be operated at will at short rests in the music, to open the valves *a* and let the water of condensation escape from the conductors B B, thereby keeping the instrument free of water. A spring, *x*, operates to close said valves when lever *d* is released by the player.

When the lever *c* is constructed and applied to instruments of this class in the ordinary way, as above described, the player is obliged frequently to remove the instrument from his mouth, or one hand from the cornet, to open the water-valve, thereby obliging him to cease playing for that purpose; but instruments provided with the above-described improved devices for operating said valves are free from said inconveniences attendant upon the aforesaid old construction.

What I claim as my invention is—

In a brass musical instrument, the combination, with the water-valve lever thereof, of the finger-lever *d* and the link *e*, arranged to operate substantially as and for the purpose set forth.

JOHN HEALD.

Witnesses:

H. A. CHAPIN,
R. F. HYDE.