

# PATENT SPECIFICATION



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161,566

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## COMPLETE SPECIFICATION.

### Valve Control Device for Brass and like Musical Wind Instruments.

I, LÉON MOEREMANS; of 60, rue de Flandre, Ghent, Belgium, Belgian subject, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to an improved valve control device for brass and like musical wind instruments of the kind having rotary valves operated by spring returned finger pieces carried by pistons which move in a straight line.

In a valve control device of this kind it has been proposed heretofore to provide a rod rigidly fixed to the piston at one end and pivoted at its other end to one end of a single connecting rod which is connected at its other end to the operating arm of the rotary valve.

According to the present invention the piston has a pivot pin passing diametrically therethrough which is embraced by the end of a connecting rod pivotally connected at its other end to the operating arm of the rotary valve.

In order that the invention may be readily understood reference will now be made to the accompanying drawings in which:—

Figure 1 is an assembled view of three valves provided with control devices constructed in accordance with the invention, and

Figure 2 is a similar view showing the control devices mounted in a different position relative to the instrument.

The device comprises a piston B moving in a cylindrical casing A and adapted to transmit its reciprocating movement

directly to the rotary valve J by means of a member C in the form of a connecting rod. The member C is pivotally connected to the piston by means of a pivot pin F passing diametrically through the piston B and embraced by the member C at its upper end, whilst a pivotal connection between the member C and the operating lever H of the rotary valve is provided by forming a forked end on the valve operating lever and passing a pin G through the forked end and through the lower end of the member C which is embraced by the forked end of the valve operating lever. I represents the usual limit stops for the operating lever H.

The piston B is formed with a rod D passing through the casing A and provided with a button E upon which the operator presses with his finger to move the valve. By pressing upon the button E the operator forces the piston downwards against a spiral spring disposed in the casing A and adapted to return the piston when the pressure of the finger is released.

The invention is applicable to all brass and like wind instruments having rotary valves without regard to the number of cylinders (though generally three are provided) or to the arrangement and inclination of the cylinders.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. A valve control device for brass and like musical wind instruments wherein

[Price 1/-]

the operating piston which has a pivot pin passing diametrically therethrough which is embraced by the end of a connecting rod pivotally connected at its other end to the operating arm of the rotary valve.

5 2. A valve control for brass and like musical wind instruments constructed

and adapted to operate as described with reference to the accompanying drawings. 10

Dated this 15th day of March, 1921.

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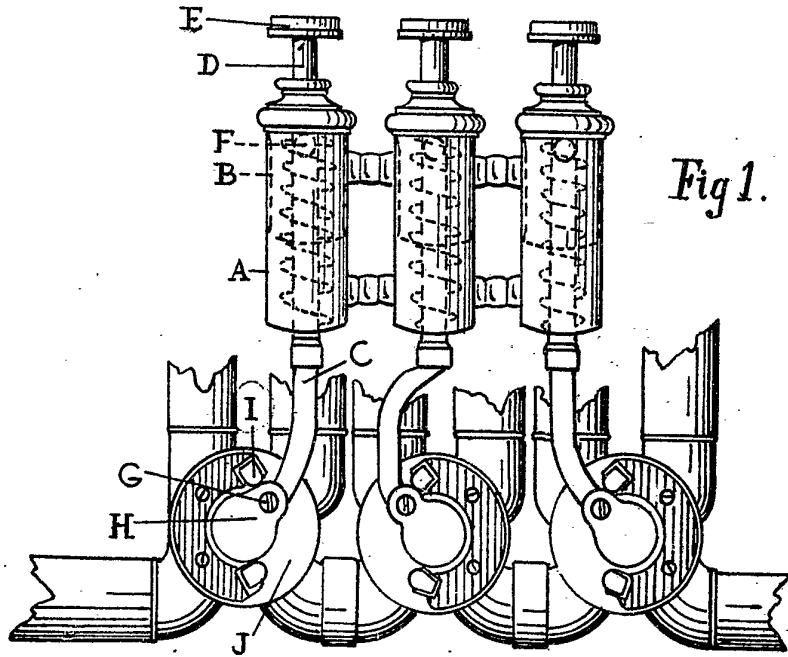


Fig. 1.

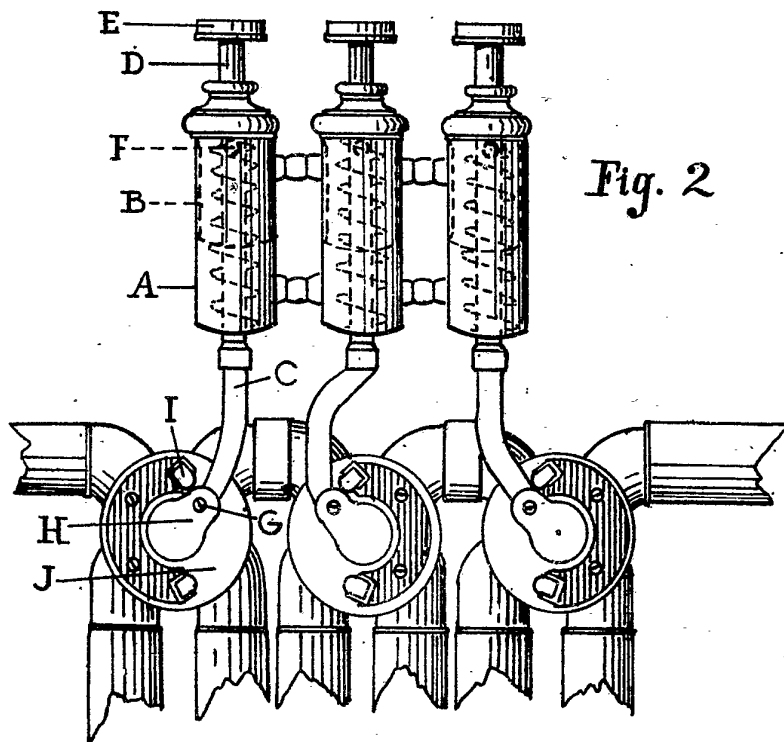


Fig. 2

[This Drawing is a reproduction of the Original on a reduced scale.]