

No. 828,273.

PATENTED AUG. 7, 1906.

C. G. CONN.  
CORNET.

APPLICATION FILED JAN. 8, 1906.

2 SHEETS—SHEET 1.

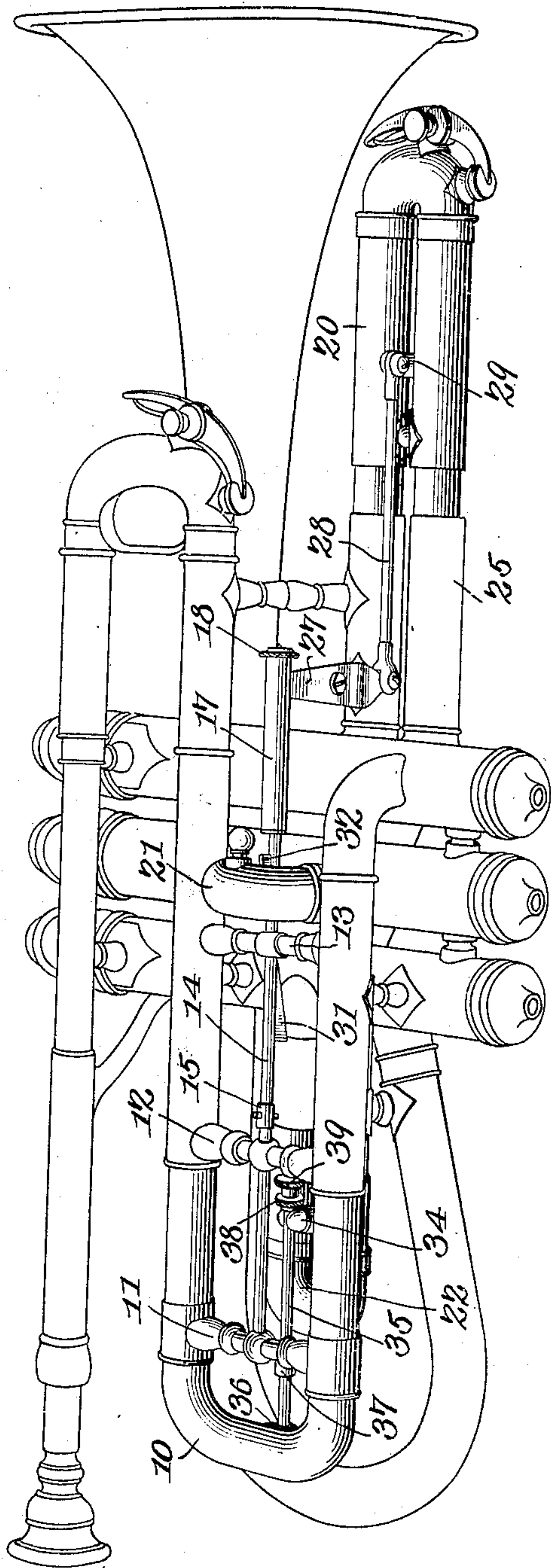


Fig. 1.

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*Charles G. Conn,*  
INVENTOR.

By *Calhoun & Co*  
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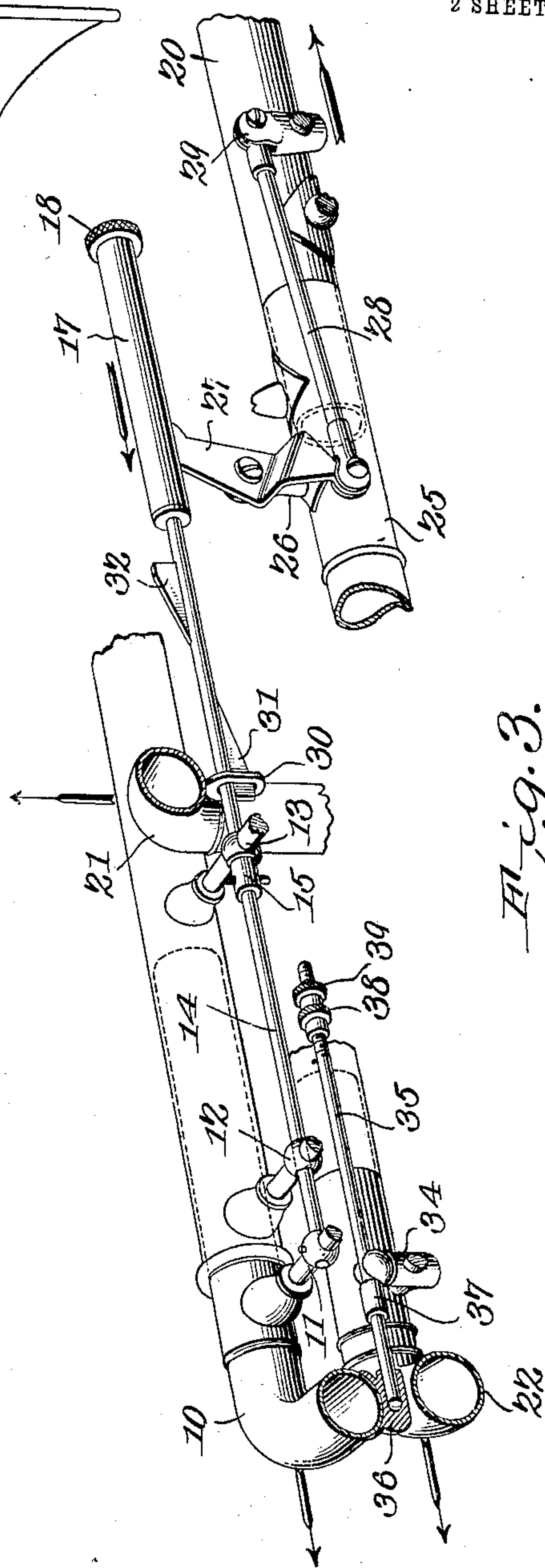
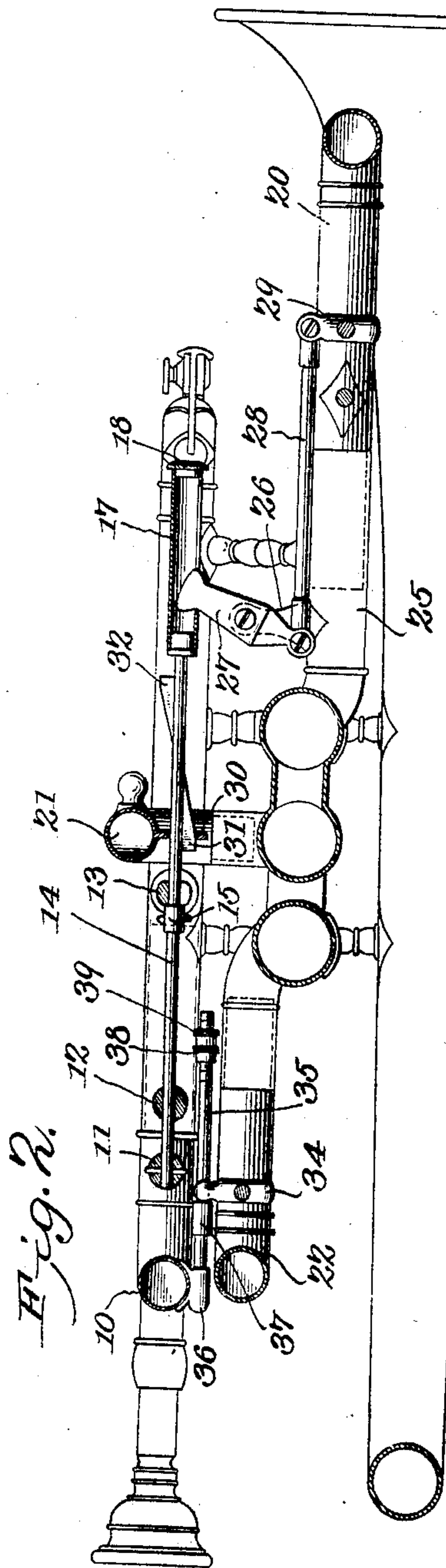
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2 SHEETS—SHEET 2.



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*E. J. Stewart*  
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# UNITED STATES PATENT OFFICE.

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## CORNET.

No. 828,273.

Specification of Letters Patent.

Patented Aug. 7, 1906.

Application filed January 8, 1906. Serial No. 295,152.

*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 a new and useful Cornet, of which the following is a specification.

This invention relates to improvements in cornets, and has for its principal object to provide a key-changing slide which when moved to change the pitch of the cornet will at the same time operate a suitable mechanism to extend the valve-slides sufficiently to make them correspond to the lowered pitch of the instrument.

A further object of the invention is to provide a mechanism which will enable the cornetist at a single movement to instantaneously change the pitch of the instrument and at the same time and by the same movement adjust all the valve-slides.

With these and other objects in view, as will more fully hereinafter appear, the invention consists in the novel construction and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that various changes in the form, proportions, size, and minor details of the structure may be made without departing from the spirit or sacrificing any of the advantages of the invention.

In the accompanying drawings, Figure 1 is a perspective view of a cornet provided with connected key-changing and valve-slide mechanism in accordance with the invention. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a detail perspective view illustrating the connecting mechanism between the key-changing slide and the several valve-slides.

Similar numerals of reference are employed to indicate corresponding parts throughout the several figures of the drawings.

The general structure and arrangement of the cornet is similar to that followed in constructions in ordinary use and being well known in the art will not require detail description.

The key-changing slide 10 is of the usual construction and has parallel legs arranged to slide within portions of the main tube, such legs being rigidly secured together by a

cross-bar 11, and the adjacent parts of the main tube are connected by cross-braces 12 and 13. The two braces 12 and 13 are provided with openings for the passage of a slide-actuating rod 14, that is provided with a collar 15, that engages with the inner face of the brace 12 and limits movement of the rod in one direction.

To the outer end of the rod is rigidly secured a sleeve 17, at the extreme end of which is arranged an enlarged disk 18, the periphery of which may be knurled or serrated. That end of the rod opposite the enlarged disk is rigidly secured to the cross-brace 11 of the key-changing slide, so that the latter may be readily moved to and fro when it becomes necessary to change the pitch of the instrument.

The first, second, and third valve-slides 20, 21, and 22 are usually arranged for independent operation, so that the cornetist after moving the key-changing slide must then grasp and move the separate valve-slides to an extent sufficient to make them correspond to the changed pitch of the instrument.

To one of the fixed tubes 25 is secured a bracket 26, that carries a lever 27, the inner end of said lever being connected by a link 28 to a small cross bar or stud 29, that connects the two parallel tube members of the valve-slide 20. The outer end of this lever fits within an elongated slide, that is formed in the inner face of the sleeve 17, so that as the sleeve nears the limit of its movement in one direction or the other the end wall of the slot will engage the lever and transmit movement through said lever to the valve-slide 20, moving the latter in a direction to correspond to the movement of the key-changing slide.

The slide 21 carries a small loop 30, through which the rod 14 extends, and secured to said rod is a pair of cams 31 and 32, the cams facing in opposite directions, respectively, and one being adapted to move the valve-slide outward as the key-changing slide nears the limit of its outward movement, while the other cam tends to move the valve-slide inward as the key-changing slide moves in the same direction.

The third valve-slide 22 is provided with a lug 34, that is bifurcated to receive a rod 35, the rear end of which is rigidly secured to a



lug 36, projecting from the key-changing slide. This rod carries a fixed collar 37, which engages against one side of the lug as the key-changing slide moves inward, so that the valve-slide is moved in the same direction. The outer or free end of the rod 35 is threaded and receives an adjusting-nut 38 and a lock-nut 39, the latter being employed to hold the adjusting-nut 38 in position. This nut 38 is arranged to engage against the outer face of the lug as the rod is carried outward by the key-changing slide, and as the latter slide nears the limit of its outward movement the nut will engage the lug 34 and will pull the valve-slide outward.

It will thus be seen that whenever it becomes necessary to change the pitch of the cornet the key-changing slide and all of the valve-slides may be moved in proper direction—that is to say, either inward or outward—by a single movement, the operator merely grasping the slide and pushing or pulling upon the same to accomplish the desired result.

Having thus described the invention, what is claimed is—

1. In a cornet, the combination with a key-changing slide, of a rod connected thereto and provided with a slotted end portion, a valve-slide, and a lever operatively connected to the valve-slide and having one end arranged within the slot for engagement by the end walls of said slot.

2. In a cornet, the combination with a key-changing slide, of an operating-rod connected thereto and provided with a handled end of enlarged diameter, and provided with a longitudinally-arranged slot, a valve-slide, a lug carried thereby, a lever carried by one of the fixed tubes of the instrument and having one of its ends linked to the lug, the opposite end of said lever extending within the slot.

3. The combination with a key-changing slide, of an operating-rod connected thereto, a valve-slide, and cams carried by the rod for

moving the valve-slide to an extent proportioned to the movement of the key-changing slide.

4. The combination with a key-changing slide, of an operating-rod connected thereto and provided with a pair of spaced diametrically-opposed cams, a valve-slide, and a loop carried by the slide and through which the rod extends, the cams serving by engagement with the end walls of the loop to transmit movement to the valve-slide.

5. The combination with a key-changing slide, of an operating means connected thereto, a rod carried by the key-changing slide, a valve-slide having a slotted lug arranged for the reception of the rod, a fixed collar carried by the rod and adapted to engage the lug, and an adjustable nut also carried by the rod for engagement with said lug.

6. The combination in a cornet, of a key-changing slide, a slotted operating-rod connected thereto, first, second and third valve-slides, a lug carried by the third valve-slide, a lever pivoted to one of the fixed tubes and having one of its ends linked to the lug, the opposite end of said lever extending into the slot in said rod, a loop carried by the second valve-slide and through which the operating-rod extends, spaced diametrically-opposed cams carried by the rod and adapted to engage the opposite end walls of the loop, a slotted lug carried by the first valve-slide, a threaded rod carried by the key-changing slide, a collar on said threaded rod for engagement with one side of the lug, and an adjustable nut carried by said threaded rod for engagement with the opposite side of the lug.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

CHARLES G. CONN.

Witnesses:

W. J. GROUERT,  
GERTRUDE STREGS.