

F. GOETZE & D. MULLER.
Accordions.

No. 144,025.

Patented Oct. 28, 1873.

Fig. 1.

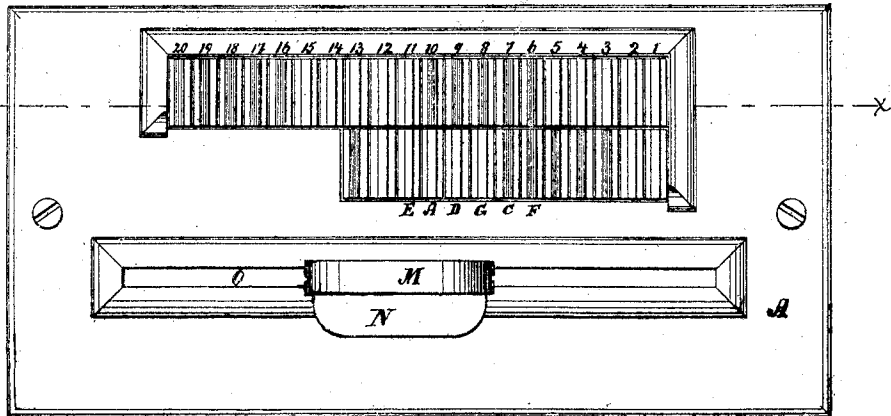


Fig. 2.

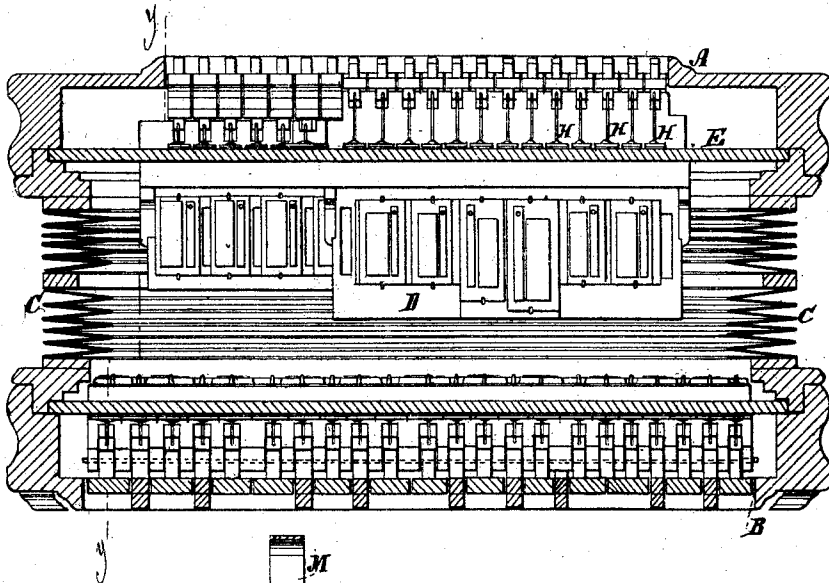
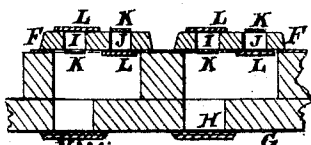


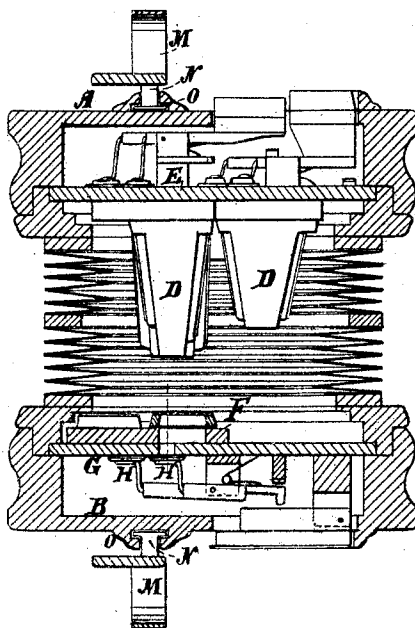
Fig. 4.



Witnesses:

A. Benneckenhoff.
C. Sargis.

Fig. 3.



Per

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FREDRICK GOETZE AND DONAT MÜLLER, OF NEW YORK, N. Y.

IMPROVEMENT IN ACCORDIONS, &c.

Specification forming part of Letters Patent No. **144,025**, dated October 28, 1873; application filed June 21, 1873.

To all whom it may concern:

Be it known that we, FREDRICK GOETZE and DONAT MÜLLER, of the city, county, and State of New York, have invented a new and Improved Musical Instrument, of which the following is a specification:

Our invention consists essentially of the application of two "unisono"-tuned reeds to every key of both key-boards of a wind-instrument in which the key-boards form the sides of the bellows as in an accordion, whereby one reed will sound by expanding and the other by contracting the bellows, and thus give the same note continuously as long as may be required. Our invention also consists of sliding holders, in combination with the key-boards of such instruments, by which the bellows can be worked by the wrists of the player, thus leaving all the fingers free to work the keys, and allowing the hands to slide along the key-boards, the instrument being supported at one end on the knees.

The instrument thus improved by us we call an "aeolodikon."

Figure 1 is a plan view of the left-hand side of our improved instrument. Fig. 2 is a longitudinal sectional elevation taken on the line *x x* of Fig. 1. Fig. 3 is a transverse sectional elevation taken on the line *y y* of Fig. 2; and Fig. 4 is a detail section, showing the arrangement of the two reeds to one key.

Similar letters of reference indicate corresponding parts.

A represents the key-board of the left-hand side of the instrument; B, the key-board of the other side; C, the bellows; D, the reed-boards, and E the valve-board, of the left-hand side; F, the reed-board, and G the valve-board, of the right-hand side. To each valve H of both sides we arrange two passages, I J, each having a reed, K, and a supplementary valve, L, arranged reversely to each other, as clearly shown in Fig. 4, the reeds being "unisono"-tuned, as aforesaid, so that exactly the same sound is produced to each key, whether the bellows be expanded or contracted, thus allowing the prolongation of the sound to a greater

extent than can be done with the instruments of this character as heretofore constructed. The arrangement of the notes of the left-hand finger-board is made to effect and also to facilitate the accompaniment of every musical major and minor key. For example, if the thumb is placed on the key C, the first finger on key 10, the second finger on key 11, and the fourth finger on key 14, it will give the chord of C major. If the same fingers be placed with the hand spread the same on keys G, 11, 12, and 15, it will give the chord of G major, and so on to the left end, whereat the chord of F sharp major will be given, and at the right end the chord of G flat major will be given. If the thumb is placed on the key C, the first finger on key 7, the third finger on key 10, and the fourth finger on key 11, it will give the chord of C minor. If the same fingers with the same spread are placed on the next keys G, 8, 11, and 12, it will give the chord of C minor, and so on to the left end, whereat the chord of F sharp minor will be given, and at the right end the chord of G flat minor will be given. M represents the holders for working the bellows by the wrists. They are attached to a sliding block, N, one to each key-board, arranged in a race, O, so as to actuate the bellows, while at the same time shifting along the key-boards for applying the fingers to the keys.

To acquire the free use of the five fingers of both hands, and the use of the wrists for working the bellows, both key-boards are laid horizontally on the detached decks of the instrument for practice.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The combination of sliding holders M with the key-boards of a wind-instrument in which the bellows is actuated by the instrumentality of the key-boards, substantially as specified.

FREDRICK GOETZE.
DONAT MÜLLER.

Witnesses:

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