

(No Model.)

G. W. TURNER.  
Mechanical Musical Instrument.

No. 243,661.

Patented June 28, 1881.

Fig. 1

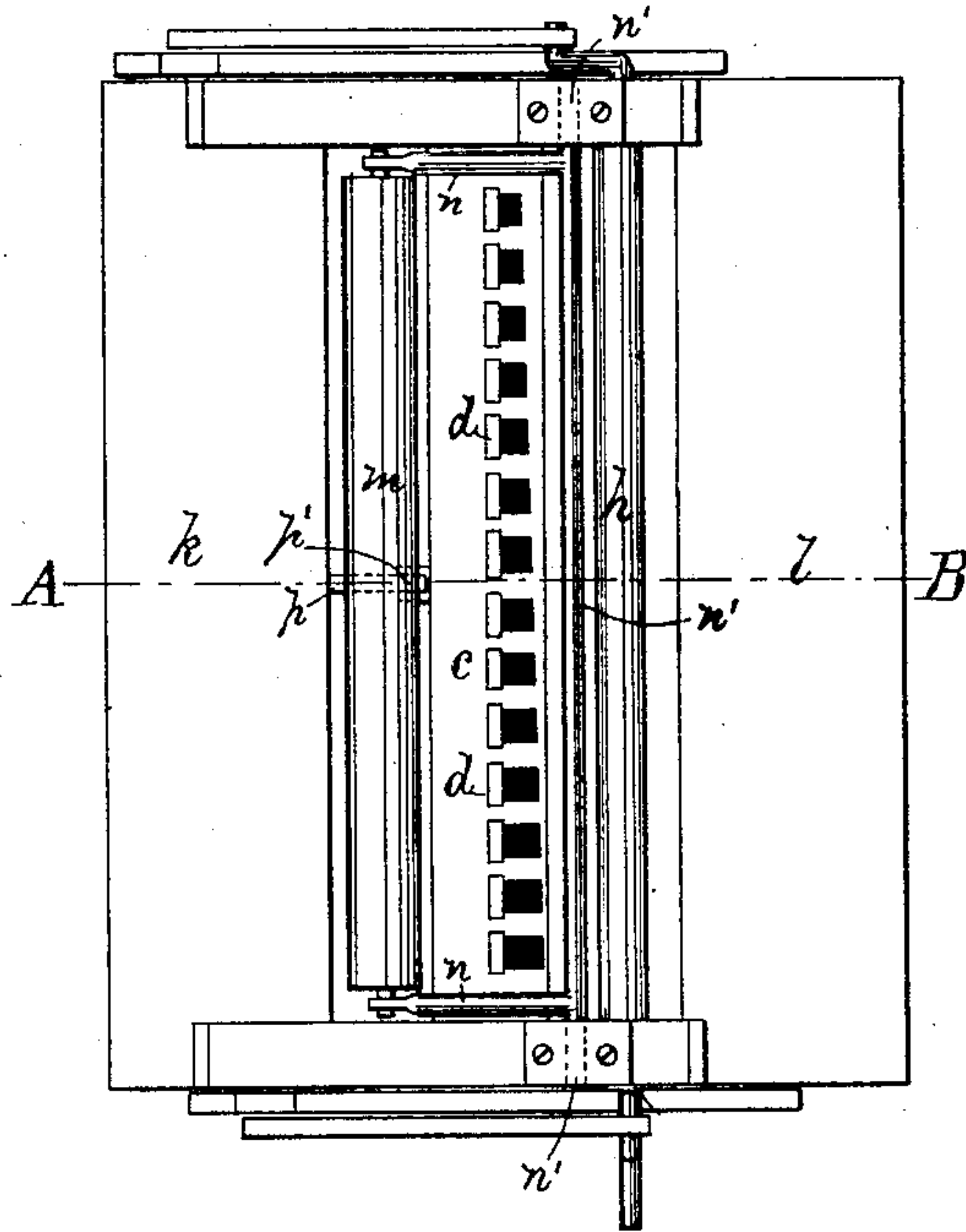
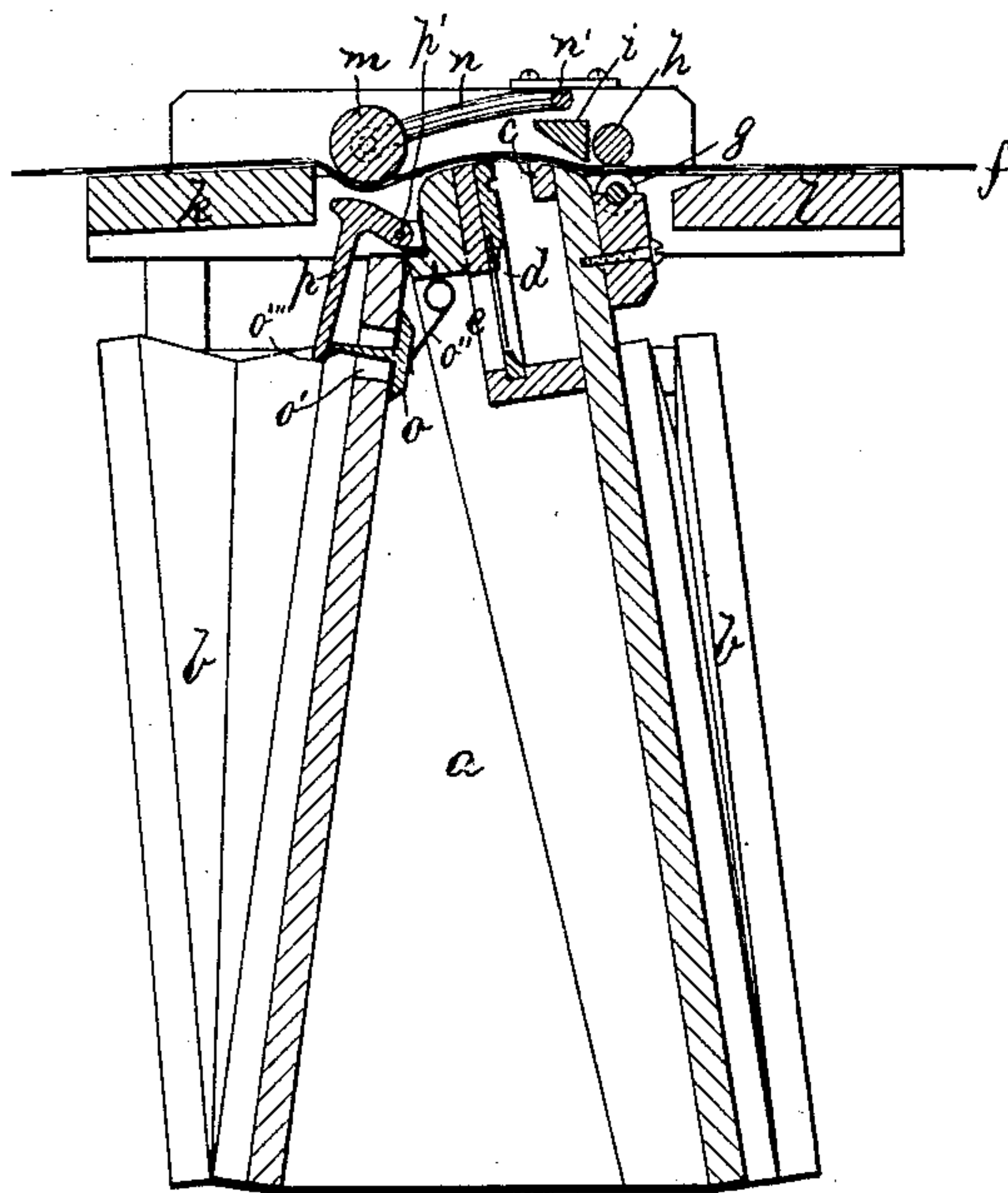


Fig. 2.



Witnesses.

Henry Chadbourne.  
M. W. Wright

Inventor.

George W. Turner  
by Alban Audren  
his atty.

# UNITED STATES PATENT OFFICE.

GEORGE W. TURNER, OF BOSTON, MASSACHUSETTS.

## MECHANICAL MUSICAL INSTRUMENT.

SPECIFICATION forming part of Letters Patent No. 243,661, dated June 28, 1881.

Application filed January 17, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE W. TURNER, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Mechanical Musical Instruments; and I do hereby declare that the same are fully described in the following specification and illustrated in the accompanying  
10 drawings.

This invention relates to improvements in mechanical musical instruments of that class in which a perforated traveling sheet is used to regulate the admission of air to reeds or  
15 pipes operated by either exhaust or force bellows; and it consists of a hinged or swinging pressure roller or bar so arranged in relation to the perforated sheet and tube-board that when the end of the perforated sheet passes  
20 under the said roller or bar and away from it said roller or bar will automatically descend and open a valve, thus preventing the instrument from sounding after the end of the perforated sheet has passed by the said roller  
25 or bar. During the ordinary use of the instrument—that is, when a tune is being played—the aforesaid roller or bar is held upward by resting on the movable perforated sheet.

On the accompanying drawings, Figure 1  
30 represents a plan view of the invention; and Fig. 2 represents a cross-section on the line A B, shown in Fig. 1.

Similar letters refer to similar parts wherever they occur on the different parts of the  
35 drawings.

The drawings represent a mechanical musical instrument the case of which is removed.

*a* is the bellows, and *b b* represent the feeders, as usual.

40 *c* is the tube-board, with its reeds *d d d* and channels *e e*, leading to the bellows *a*, in the ordinary way.

*f* is the perforated sheet, and *g* is the feed-roll, between which and the pressure-roll *h* the  
45 said sheet is moved by means of the usual crank or other mechanism.

*i* is the stationary guide for the perforated sheet above the tube-board *c*, as shown.

50 *k* and *l* are the supports on which the perforated sheet is resting while being fed to the tube-board *c*.

*m* represents the roller or bar on the end of the arms *n n*, which are hinged on the fulcrum *n' n'*, around which the said bar or roller *m* is movable.

*o* is the relief-valve, with its valve-hole *o'* and spring *o''*, for the purpose set forth. 55

*o'''* is a suitable projection on the relief-valve *o*, and *p* is a knee-lever, hinged at *p'*, and adapted to be acted upon by the roller or bar *m* during its descent, so as to automatically open the valve *o* and prevent the instrument from sounding after the end of the perforated sheet has reached the said bar or roller *m*, as and for the  
60 purpose described. 65

I desire here to state that I do not confine myself to the use of a bar or a loosely-revolving roller, *m*, in the carrying out of my invention, as either may be used to accomplish the desired result; neither do I confine myself to the  
70 exact arrangement of a knee-lever, *p*, as the intermediate device between the under side of the bar or roller *m* and the valve *o*, as such may be changed and another and equivalent device substituted without affecting the practical operation of the invention. 75

I disclaim, in a mechanical musical instrument adapted to be operated by a traveling music-sheet, the combination of a rest, a roller or rollers upon one side of said rest for drawing the music-sheet forward, and a non-rotary  
80 drag-bar upon the other side of said rest, under which the music-sheet passes, as I am not the first inventor thereof.

Having thus fully described the nature, construction, and operation of my invention, I wish to secure by Letters Patent, and claim— 85

In a mechanical musical instrument, the hinged or swinging roller or bar *m*, in combination with the tube-board *c* and bellows-valve  
90 *o*, arranged and adapted to operate as described, whereby the said roller or bar *m* will automatically descend and open the valve *o* when the perforated music-sheet is passed under the bar or roller and away from it, as and for the purpose set forth. 95

In testimony whereof I have affixed my signature in presence of two witnesses.

GEORGE W. TURNER.

Witnesses:

ALBAN ANDRÉN,

HENRY CHADBOURN.