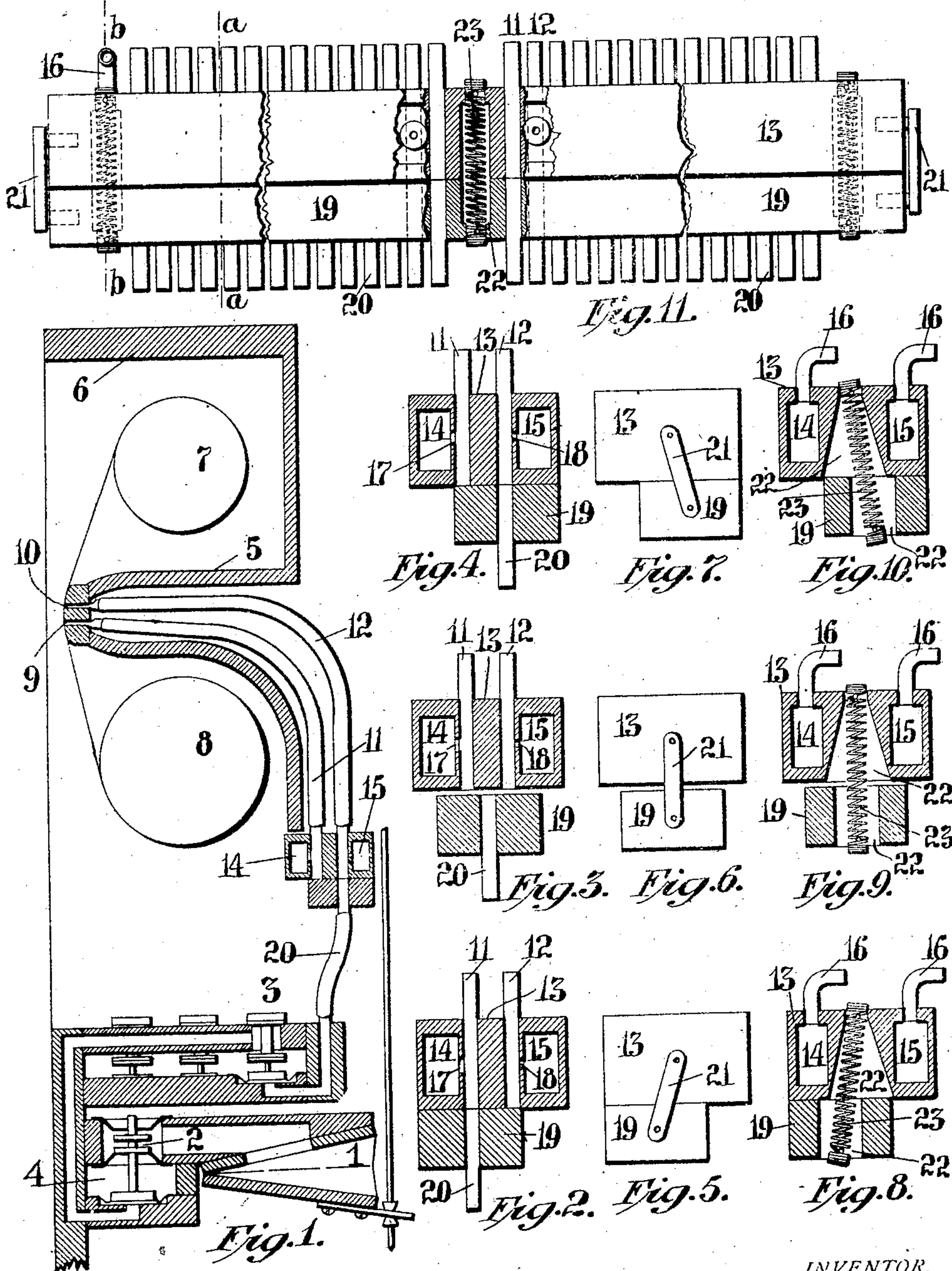


J. H. DICKINSON.  
 ADJUSTABLE TRACKER BOARD FOR PNEUMATIC PLAYING ATTACHMENTS.  
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WITNESSES:

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# UNITED STATES PATENT OFFICE.

JOSEPH H. DICKINSON, OF CRANFORD, NEW JERSEY, ASSIGNOR TO AEOLIAN COMPANY, OF NEW YORK, N. Y., A CORPORATION OF CONNECTICUT.

## ADJUSTABLE TRACKER-BOARD FOR PNEUMATIC PLAYING ATTACHMENTS.

No. 915,943.

Specification of Letters Patent.

Patented March 23, 1909.

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*To all whom it may concern:*

Be it known that I, JOSEPH H. DICKINSON, a citizen of the United States, and resident of Cranford, in the county of Union and State of New Jersey, have invented certain new and useful Improvements in Adjustable Tracker-Boards for Pneumatic Playing Attachments, of which the following is a specification.

10 This invention relates to improvements in adjustable tracker boards for pneumatic playing attachments for musical instruments.

15 The object of my invention is to provide a new and improved tracker board having two independent rows of tracker holes connected with ducts and to combine it with means for easily and rapidly bringing either row of ducts into or out of operative communication with ducts leading to the player mechanisms, all of simple construction and effective and reliable in action and in use.

20 In the accompanying drawings, in which like characters of reference indicate like parts in all the figures, Figure 1 is a vertical sectional view of one embodiment of my new and improved adjustable tracker board, with a player pneumatic and its valves. Figs. 2 and 3 and 4 are vertical detail sectional views on the line *a-a*, Fig. 11 showing different positions of the parts. Figs. 5, 6, and 7 are end views showing corresponding different positions of the parts. Figs. 8, 9 and 10 are corresponding vertical sectional views on the line *b-b*, Fig. 11 showing different positions of the parts. Fig. 11 is a side view of the shifting bar, parts being broken away and shown in section.

25 The player pneumatic 1, its valves 2 and 3 and the wind chest 4 are of conventional construction.

30 The tracker board 5 is fixed in the music box 6, containing the music rolls 7 and 8. The tracker board 5 is provided in its outer edge with two rows of holes 9 and 10 and the holes of one row may be larger than the holes in the other row, they may be greater or less in number and may be spaced differently. For example there may be sixty-five holes 9 in one row and eighty-eight holes 10 in the other row. Each hole 9 is connected with a duct 11 and each hole 10 with a duct 12, which ducts for example may be composed of rubber tubing, which ducts, or tube 35 nipples connected therewith, terminate at

the bottom edge of a transversely and vertically movable bar 13 in which said ducts are arranged in two parallel rows separated a short distance from each other laterally. On said bar 13 two chambers 14 and 15 are 60 formed, which are provided with necks or nipples 16 for attaching tubes for connecting the chambers with a suction device. Each duct 11 and 12 is connected by a bleed hole 17 and 18 with its corresponding chamber 14 65 and 15 respectively.

A fixed bar 19 beneath the movable bar 13 is connected by ducts 20 with as many player pneumatics as there are holes in that row of holes in the tracker board having the great- 70 est number of holes. The ducts 20 terminate in the upper surface of the fixed block 19 and are spaced uniformly and the ends of both rows of ducts in the movable bar 13 are also spaced uniformly so as to be capable of being 75 brought to register with the ends of the ducts in the fixed bar 19.

The fixed bar 19 and the shiftable or movable bar 13 are connected at their ends by links 21 pivoted to each, and these bars are 80 provided with recesses 22 containing springs 23 secured at their upper ends at the top of the movable bar 13 and at their lower ends to the bottom of the fixed bar 19. The movable bar is capable of lateral movements on 85 the fixed block for a distance equal to the distance laterally between the two rows of ducts 11 and 12 in said movable bar.

As shown in Fig. 2 the ducts 11 in the bar 13 are in communication with the ducts 20 90 and the ducts 12 are cut out of action and hence the sixty-five note holes 9 of the tracker board only come into play. If the eighty-eight note holes 10 are to come into play the movable bar 13 is shifted laterally from the 95 position shown in Fig. 2 and the corresponding figures 5 and 9, into the position shown in Fig. 4 and the corresponding figures 7 and 10. While moving the movable bar 13 is lifted clear of the fixed bar 19 as shown in 100 Figs. 3, 6 and 9, the springs being brought into greater tension. The springs reseal the bar 3 on the bar 19 and hold it securely in place, for either adjustment.

Having described my invention what I 105 claim as new and desire to secure by Letters Patent is:

1. The combination with a tracker board having two rows of holes, one row being different from the other row, of a movable bar 110



having two independent chambers, each connected by bleed holes with one of said rows of ducts and a fixed bar having a single row of ducts, capable of registering with either  
 5 row of ducts in the movable bar and player pneumatics connected with the ducts in the fixed bar, substantially as set forth.

2. The combination with a tracker board having two rows of holes, one row being different from the other row, of a movable bar  
 10 having two independent chambers, each connected by bleed holes with one of said rows of ducts and a fixed bar having a single row of ducts, capable of registering with either  
 15 row of ducts in the movable bar, the movable bar being laterally movable in relation to the fixed bar and player pneumatics connected with the ducts in the fixed bar, substantially as set forth.

3. The combination with a tracker board having two rows of holes, one row being different from the other row, of a movable bar having two independent chambers, each connected by bleed holes with one of said rows  
 25 of ducts and a fixed bar having a single row of ducts, capable of registering with either row of ducts in the movable bar, the movable bar being laterally and vertically movable in relation to the fixed bar and player pneumatics connected with the ducts of the fixed  
 30 bar, substantially as set forth.

4. The combination with a tracker board having two rows of holes, one row being different from the other row, of a movable bar  
 35 having two independent chambers, each connected by bleed holes with one of said rows

of ducts and a fixed bar having a single row of ducts, capable of registering with either row of ducts in the movable bar, springs attached to both bars to hold the movable bar  
 40 upon the fixed bar and player pneumatics connected with the ducts of the fixed bar, substantially as set forth.

5. The combination with a tracker board having two rows of holes, one row being different from the other row, of a movable bar  
 45 having two independent chambers, each connected by bleed holes with one of said rows of ducts and a fixed bar having a single row of ducts, capable of registering with either  
 50 row of ducts in the movable bar, links pivoted to both bars and player pneumatics connected with the ducts of the fixed bar, substantially as set forth.

6. The combination with a tracker board having two rows of holes, one row being different from the other row, of a movable bar having two independent chambers, each connected by bleed holes with one of said rows  
 55 of ducts and a fixed bar having a single row of ducts, capable of registering with either  
 60 row of ducts in the movable bar, links pivoted to both bars, springs attached to both bars and player pneumatics connected with the ducts of the fixed bars, substantially as  
 65 set forth.

Signed this 21st day of Nov., A. D. 1908.

JOSEPH H. DICKINSON.

Witnesses:

A. A. SCOTT,  
 A. W. SPENCE.