

977,700.

Patented Dec. 6, 1910.

Fig. 1.

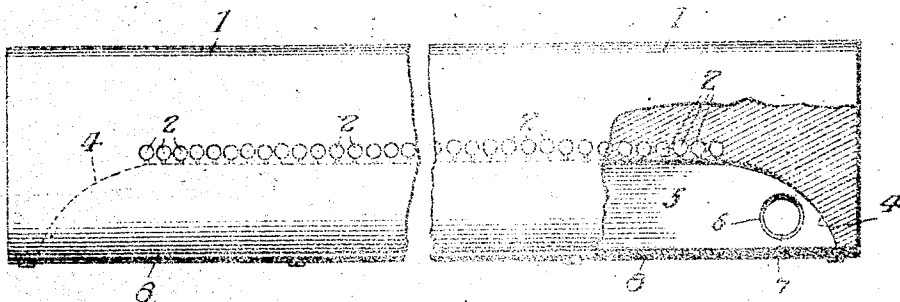
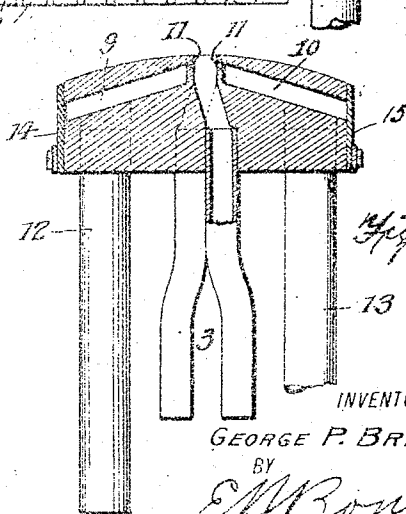
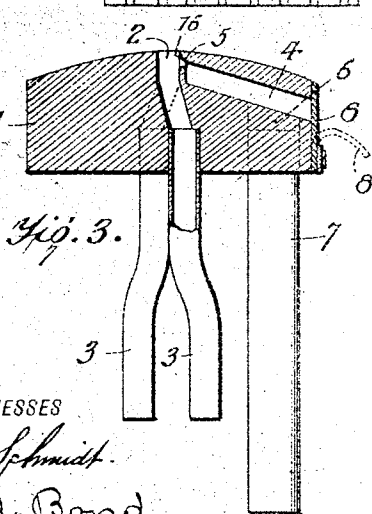
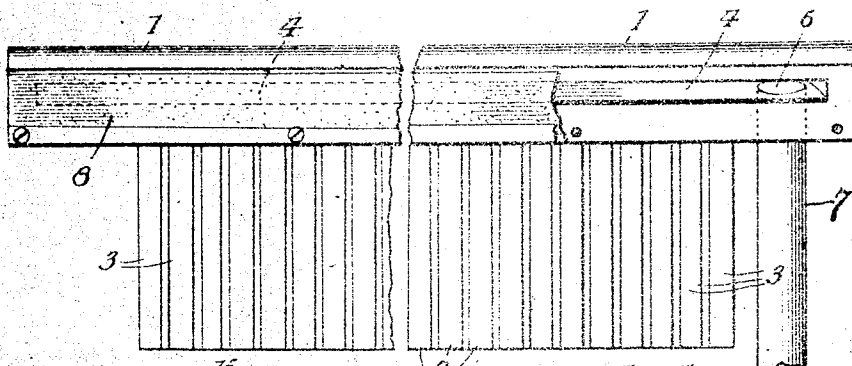


Fig. 2.



WITNESSES

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TRACKER-BAR.

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Specification of Letters Patent.

Patented Dec. 6, 1910.

Application filed April 7, 1909. Serial No. 488,342.

To all whom it may concern:

Be it known that I, GEORGE P. BRAND, a citizen of the United States of America, and resident of New York, in the county and State of New York, have invented certain new and useful Improvements in Tracker-Bars, of which the following is a specification.

This invention relates to improvements in tracker-bars designed for use in players of all character in which a perforated music sheet is employed.

The present invention has for its objects among others to provide a simply constructed, cheap yet durable and efficient form of tracker-bar in which the bleeds are readily accessible for cleaning or other purposes without the necessity of removing the tracker-bar or any other part of the player.

I also provide for ready access to the exhaust or tension chamber with which the bleeds communicate, without removal of the tracker-bar or other portions of the device.

It has for still a further object to prevent all tendency to whistling, by avoiding sharp corners.

Other objects and advantages of the invention will hereinafter appear and the novel features thereof will be particularly pointed out in the appended claims.

The invention is applicable to various forms of tracker-bars and, while I shall not attempt herein to illustrate all of such forms, those herein shown will serve to demonstrate the applicability of the invention in a variety of ways, it being understood, however, that the invention is in no wise limited to only those forms which I have chosen to disclose in the present case.

The invention, as embodied in such preferred forms, is clearly illustrated in the accompanying drawings, which, with the numerals of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a top plan with portions broken away and parts in section, showing a tracker-bar embodying my present improvements. Fig. 2 is a side elevation of the same with portions broken away. Fig. 3 is a vertical cross section through the tracker-bar. Fig. 4 is a similar view of a modified form.

The different views are shown upon an exaggerated scale for the purpose of better illustrating the construction.

Like numerals of reference indicate like parts throughout the several views.

Referring to the drawings, 1 designates the tracker-bar and 2 the note-holes therein, 3 the tubes leading therefrom for connection with the flexible tubing, not shown.

In those forms of tracker-bar where a single row of note-ducts is provided, as in Figs. 1, 2 and 3, there is formed within the tracker-bar a single exhaust channel 4, as seen clearly in Figs. 1 and 3, and from each note-duct there extends, near the outer face of the tracker-bar a bleed hole 5 extending preferably in an inclined direction, as seen in Fig. 3, affording communication between the note-duct and the chamber 4. At one end of the chamber 4, there is an opening 6 with which connects the tube or conduit 7 leading to the tension chamber or action of the player.

Upon reference to Fig. 3, it will be readily understood how accessible the bleed holes are for the purpose of cleaning, which may be done by the insertion of a suitable instrument through the note-duct 2 and into the bleed hole by which any dust or other foreign substance may be easily removed from the bleed hole and into the chamber 4. By reason of the inclination of the bottom of said chamber, the dust, dirt, etc. will slide down the same toward its outer end from which it may be readily removed at any time when desired, by removal of the closure 8, or by turning the same down, as indicated by dotted lines in Fig. 3, so as to open the outlet end of said chamber. The closure 8 may be of any well-known or approved form of air-tight closure for the chamber, the invention in this regard being in no wise restricted.

In Fig. 4, I have shown two chambers 9 and 10, one on each side of the tracker bar, the bottoms being inclined as shown in said Fig. 4, and the bleed holes 11 communicate alternately with these chambers as will be clearly understood from Fig. 4. These bleed holes may or may not be countersunk at their ends which communicate with the note ducts. In this form there are two ducts or conduits 12 and 13 one leading from each chamber, as indicated. In this instance there are shown two closures 14 and 15, one for each of the chambers in order to provide ready access thereto for the purpose of cleaning.

In order to avoid any tendency or danger of whistling the bleed holes may be counter-sunk at their ends nearest the note-ducts as seen at 16, so as to avoid sharp corners.

5 It will be seen that by the present construction the removal of no part of the device is necessary, and no special implement is required in order to clean out the bleed
10 holes, or to make them larger or smaller as occasion may require. Skilled labor is not necessary as the operator or any one else can readily clean out the bleed holes when necessary, as, for instance, in case a note should not respond properly.

15 What is claimed as new is:—

1. A tracker bar provided with note ducts and bleed holes communicating with the same and disposed at approximately the outer face of the tracker bar the entrances
20 to said bleed holes being visible and accessible through the mouth of said duct.

2. A tracker-bar having a chamber and a bleed hole disposed in proximity to the acting face of said tracker-bar and in communication with said chamber and with the
25 duct of the tracker-bar, said bleed hole being disposed intermediate the acting face of the tracker-bar and said chamber and accessible through the mouth of the tracker-
30 duct in line with said chamber.

3. A tracker-bar provided with a duct and a chamber, and a bleed hole disposed in close proximity to the acting face of the tracker-bar, and communicating with said
35 chamber and with the duct of the tracker-bar, said bleed hole terminating adjacent the outer end of the tracker-duct, the distance from the bleed to the mouth being less than the diameter of the duct, the bottom wall
40 of said chamber being inclined downwardly and away from the tracker-duct.

4. A tracker-bar provided with a duct and a chamber, a bleed-hole disposed in close proximity to the acting face of the tracker-
45 bar and communicating with said chamber and with the duct of the tracker-bar, said bleed hole terminating adjacent the outer end of the tracker-duct, the distance from the bleed to the said outer end being less
50 than the diameter of the duct, the bottom wall of said chamber being inclined downwardly and away from the tracker-duct, and a movable closure for the outer end of said chamber.

55 5. A tracker-bar provided with a duct and a chamber, and a bleed hole disposed in close proximity to the acting face of the tracker-bar and communicating with said chamber, said bleed hole terminating adja-
60 cent the outer end of the tracker-duct, the

distance from the bleed to the said mouth being less than the diameter of the duct, the bottom wall of said chamber being inclined downwardly and away from the tracker-
duct, the inlet end of said bleed hole being 65 provided with rounded walls.

6. A tracker bar having a note duct and a bleed hole in the wall thereof at approxi-
mately the outer face and visible and ac- 70 cessible from the outer face of the tracker bar through said duct and having its entrance end enlarged.

7. A tracker bar provided with a tracker duct and having formed in the body there-
of a bleed hole communicating with said 75 tracker duct, the inlet opening of said bleed hole being at the entrance of the duct at the acting face of the tracker bar and visible and accessible through the tracker duct in
80 the line of direction of said bleed hole.

8. A tracker-bar having formed in the body thereof a bleed-hole in proximity to the acting face of the tracker-bar and a
note-hole in communication with the bleed- 85 hole, the distance from the bleed-hole to the mouth of the tracker-duct being less than the diameter of said duct.

9. A tracker bar provided with a bleed hole formed in the body thereof and open-
ing into a note duct at approximately the 90 acting face of the tracker bar and the entrance to said duct.

10. A tracker bar provided with a bleed hole formed in the body thereof and open-
ing into a note duct at approximately the 95 acting face of the tracker bar and the entrance to said duct and extending at an incline with relation to said note duct.

11. A tracker-bar having formed in the body thereof a note-duct and a bleed hole in
close proximity to the acting face of the 100 tracker-bar and in a wall of the note-duct adjacent the outer end thereof, said tracker-bar being formed with a chamber opening through the side of the body of the tracker-
bar and substantially in line with and in 105 communication with said bleed hole.

12. A tracker bar provided with a note duct and a bleed hole communicating with
the same and disposed at approximately the 110 outer face of the tracker bar, the entrance to said bleed hole being visible and accessible through the mouth of the said duct, and enlarged for the purpose set forth.

Signed by me at Washington, District of 115 Columbia, this 30th day of March 1909.

GEORGE P. BRAND.

Witnesses:

E. H. BOND,

JOHN SCRIVENER.