L. A. McCORD.

REED ORGAN.

APPLICATION FILED JUNE 5, 1909.

939,065.

Patented Nov. 2, 1909.

2 SHEETS—SHEET 1.

Fig. 1.

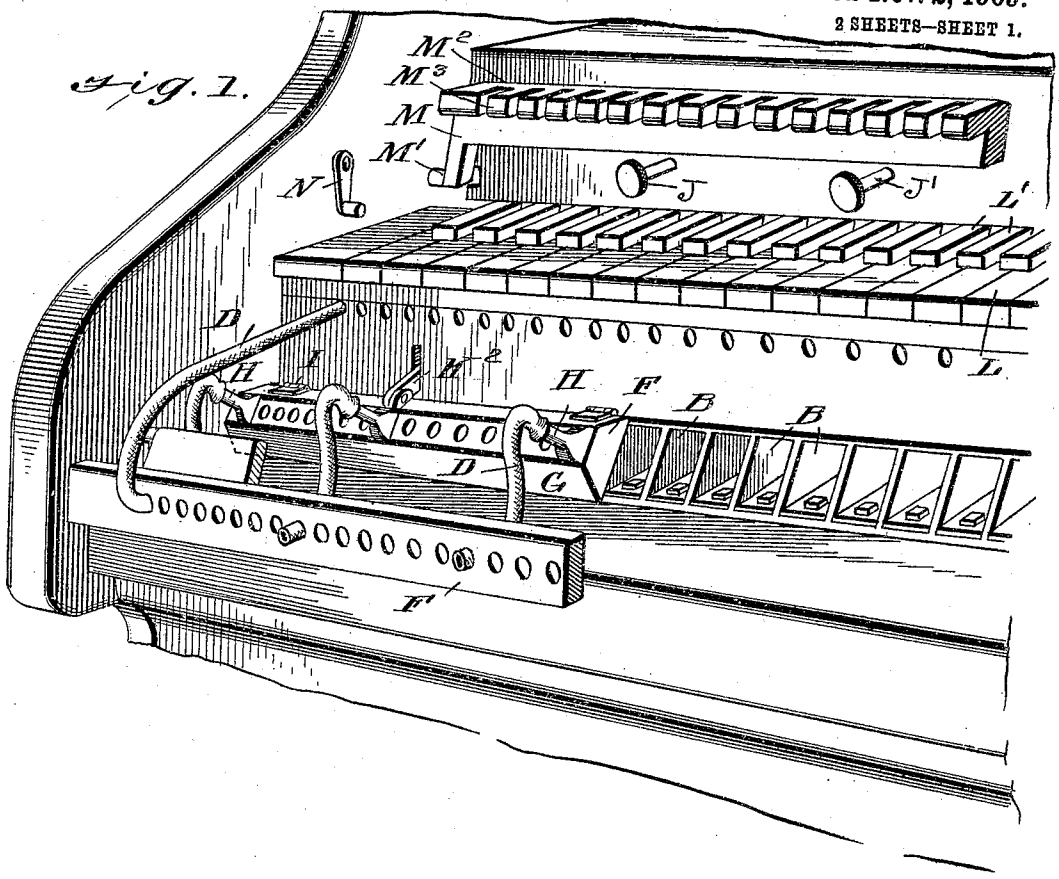
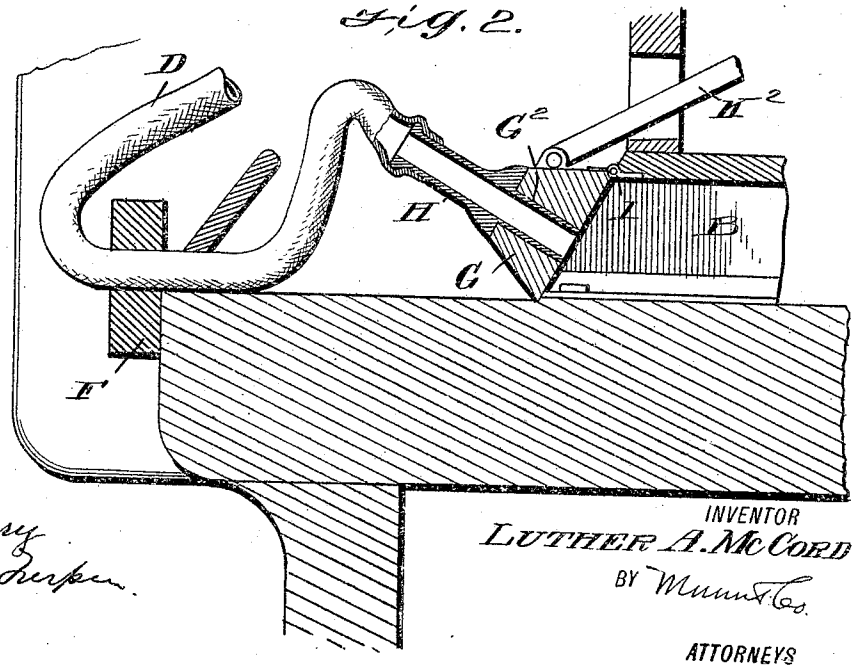


Fig. 2.



WITNESSES

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2 SHEETS—SHEET 2.

Fig. 3.

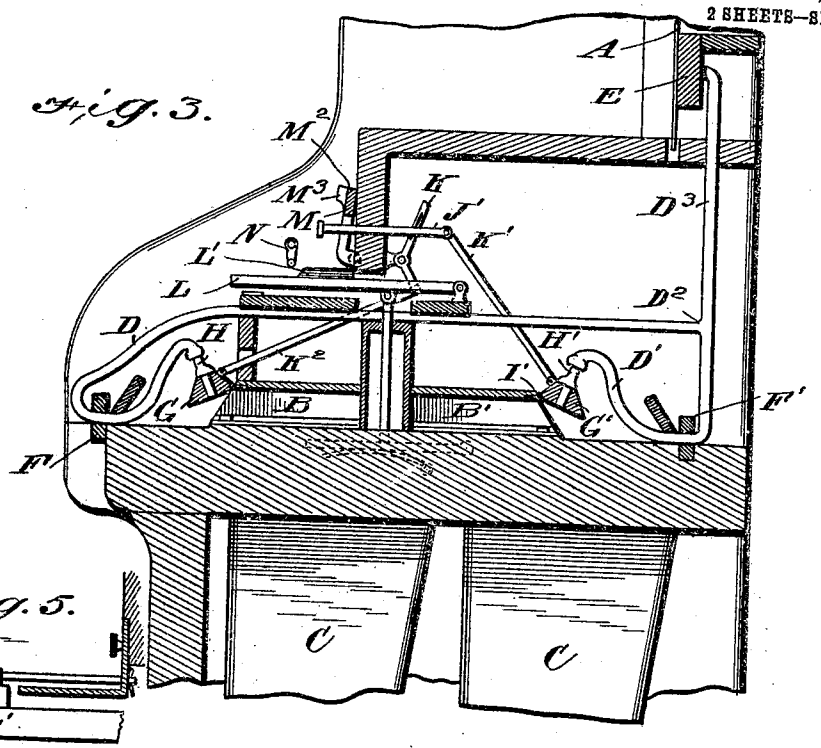


Fig. 5.

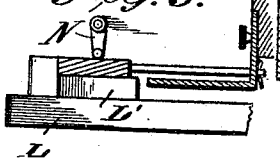
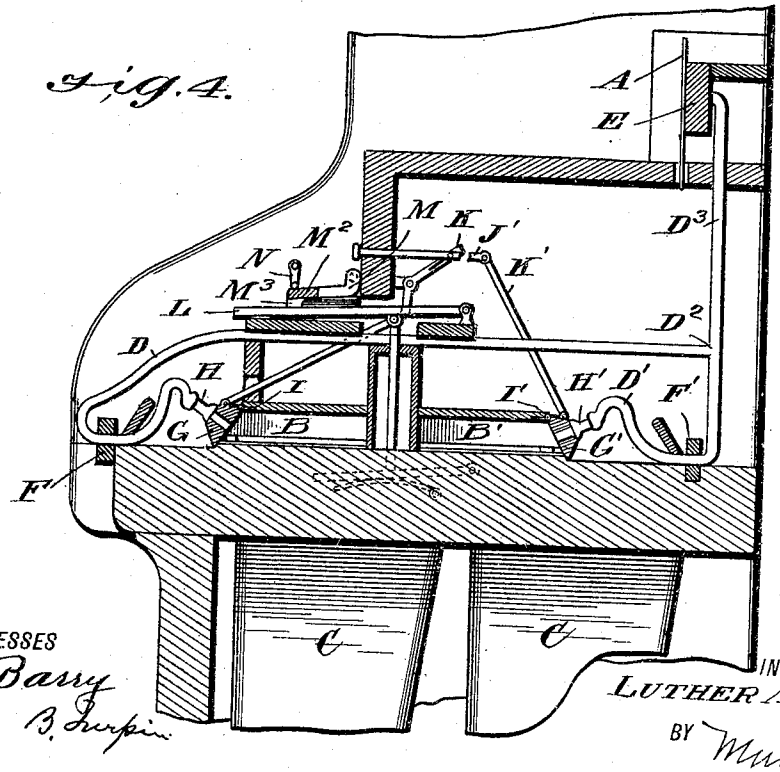


Fig. 4.



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REED-ORGAN.

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Application filed June 5, 1909. Serial No. 500,338.

To all whom it may concern:

Be it known that I, LUTHER A. McCORD, a citizen of the United States, and a resident of Laurens, in the county of Laurens and State of South Carolina, have made certain new and useful Improvements in Reed-Organs, of which the following is a specification.

This invention is an improvement in self playing attachments for reed organs, and the invention consists in certain novel constructions and combinations of parts as will be hereinafter described and claimed.

In the drawings Figure 1 is a perspective view of a portion of a reed organ embodying my invention, parts of the casing being removed to expose the reed cells, a portion of the front tube guide, and one of the mute sections with the tubes leading therefrom. Fig. 2 is a detail vertical transverse section showing one of the front mute sections closed. Fig. 3 is a vertical transverse section of the organ showing the mute sections open, and Fig. 4 is a similar section showing the mute sections closed, and Fig. 5 is a sectional view showing a sliding finger bar.

By my invention I seek to provide an organ attachment which can be applied to any of the ordinary reed organs and will permit the playing of the organ by one of the automatic or self players such for instance, as those having a music strip A, see Figs. 3 and 4, and which self playing attachment may be adjusted out of the way so the organ may be played in the usual manner.

As shown, the organ may be in general respects of ordinary construction, having the front and rear reed cells B and B′, the air pipes C leading from their respective reed cells, and having the valves, see dotted lines Fig. 4, which may be opened by their respective keys, as will be understood from Figs. 3 and 4, and as is usual in reed organs. Tubes D and D′ leading from their respective reed cells to a point where they communicate with a tracker bar E, which latter may be of ordinary construction for cooperation with the perforated paper strip or sheet A, as is well known in this class of devices, and preferably the tubes D and D′ connect by an air switch or coupling at D^2 with pipes D^3 leading to the tracker bar. In other words, the pipes D^3 leading from the tracker bar are branched to connect with the corresponding front and rear reed cells, as best shown in Figs. 3 and 4 of the drawings.

In leading to the reed cells, the pipes D and D′ extend through openings in bars F and F′ forming tube guides. Manifestly, the tubes D and D′ and D^3 may be made of metal or rubber or a combination of such materials as may be preferred by those manufacturing the attachment.

While the tubes D and D′ may be made to fit directly into the reed cells it is preferred to employ in this construction the mutes G and G′ having holes for the respective reed cells and to effect the air connections through the mutes, the latter being free to be operated by stops or similar devices, such for instance as the knee swells, when it is desired to play the organ by hand. To this end the mutes G and G′ have the openings G^2 receiving the inner ends of the nipples H and H′, the outer ends of which receive the tubes D and D′ as best shown in Fig. 2 of the drawings.

The mutes are hinged at I and I′, so they may be adjusted between the positions shown in Figs. 3 and 4 for adapting the organ to be played by hand or by the self playing devices, and for opening and closing the mutes I provide stops J and J′ connected respectively with the front and rear mutes. The connection with the rear mute is effected by a link K′, while a lever K and a link K^2, as shown in Fig. 3 are arranged to operate the front mute.

When it is desired to play the organ by the self playing devices all of the keys L and L′ are depressed, this being effected by a finger bar M, pivoted at M′ and adapted to be lowered from the position shown in Figs. 1 and 3, to that shown in Fig. 4, and to be secured in the latter position by a turn-button N. The rocker M has a longitudinal bar M^2, and depending fingers M^3, the latter pressing down the white keys L, and the bar M^2 pressing down the black keys L′ when the bar is lowered to the position shown in Fig. 4. The lowering of the keys opens all of the reed valves L^2, indicated in dotted lines in Figs. 3 and 4, so that the reeds are in readiness to be sounded as the air is admitted to the respective cells through the tubes D′ when the corresponding openings of the music sheet register with the tracker ducts and tubes D.

When the parts are in the position shown in Fig. 4, the organ is in condition to be

played by the automatic or self playing devices, and this operation may be proceeded with in the usual way.

It will be understood that the holes in the mutes for the tube connections may be round or square or other shape as desired. It will be understood that the mutes may be made in sections as will be understood from Fig. 1, and separate stops or operating devices be provided for each of the sections. It will be understood also that the mutes may be made of wood or metal molded with the holes therein or molded with the holes and tube connections together, as may be desired by a manufacturer.

Instead of making the finger bar in rocker form as shown in Figs. 1, 3 and 4, it may be made to slide in and out as shown in Fig. 5.

I claim—

1. An organ having reed cells, front and rear hinged mutes provided with openings, means for operating the mutes, nipples fitting in the openings of the mutes, a tracker bar for coöperating with automatic playing devices, and tubes leading from said tracker bar and having branches extending thence to the nipples of the front and rear mutes, and bars having openings for the said tubes and operating as guides therefor, substantially as set forth.

2. An organ substantially as described having front and rear reed cells, a tracker bar for coöperation with automatic playing devices, and tube connections between said tracker bar and the front and rear reed cells, substantially as set forth.

3. An organ having reed cells, a tracker bar for coöperation with automatic playing devices, and tube connections leading from said tracker bar to their respective reed cells, substantially as set forth.

4. The combination in an organ with reed cells, of a tube guide adjacent thereto, tubes corresponding to their respective reed cells and extending thence through the tube guide, and a tracker bar in connection with said tubes and adapted for coöperation with automatic playing devices, substantially as set forth.

5. An organ having a tracker bar for coöperation with automatic devices, and also having reed cells, a mute corresponding to said cells, and adjustable to open and closed positions, and tubes in connection with said mutes and communicating with their respective reed cells, and also in connection with the tracker bar, substantially as set forth.

6. An organ having a tracker bar, front and rear reed cells, mutes in connection with their respective cells, and adjustable to open and closed positions, a tracker bar, and tube connections between the tracker bar and mutes and corresponding to their respective reed cells, substantially as set forth.

7. The combination in an organ with the reed cells and keys, of means whereby all the keys may be depressed, and automatic playing devices adjustable into coöperative relation with the reed cells whereby the organ may be set for automatic playing or for key playing in the usual manner, substantially as set forth.

8. The combination in an organ of reed cells, a bar hinged adjacent thereto, and devices for coöperation with automatic playing mechanism, and having tubes connected with said hinged bar, substantially as set forth.

9. The combination with reed cells of a bar adjustable to open and closed positions relatively to said reed cells, and tubes connected with said bar corresponding to their respective reed cells, substantially as set forth.

LUTHER A. McCORD.

Witnesses:
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