

No. 889,204.

J. W. CLOUSE.

PATENTED JUNE 2, 1908.

NOTE SHEET FOR AUTOPNEUMATIC PIANO PLAYERS.

APPLICATION FILED MAR. 8, 1906.

2 SHEETS—SHEET 1.

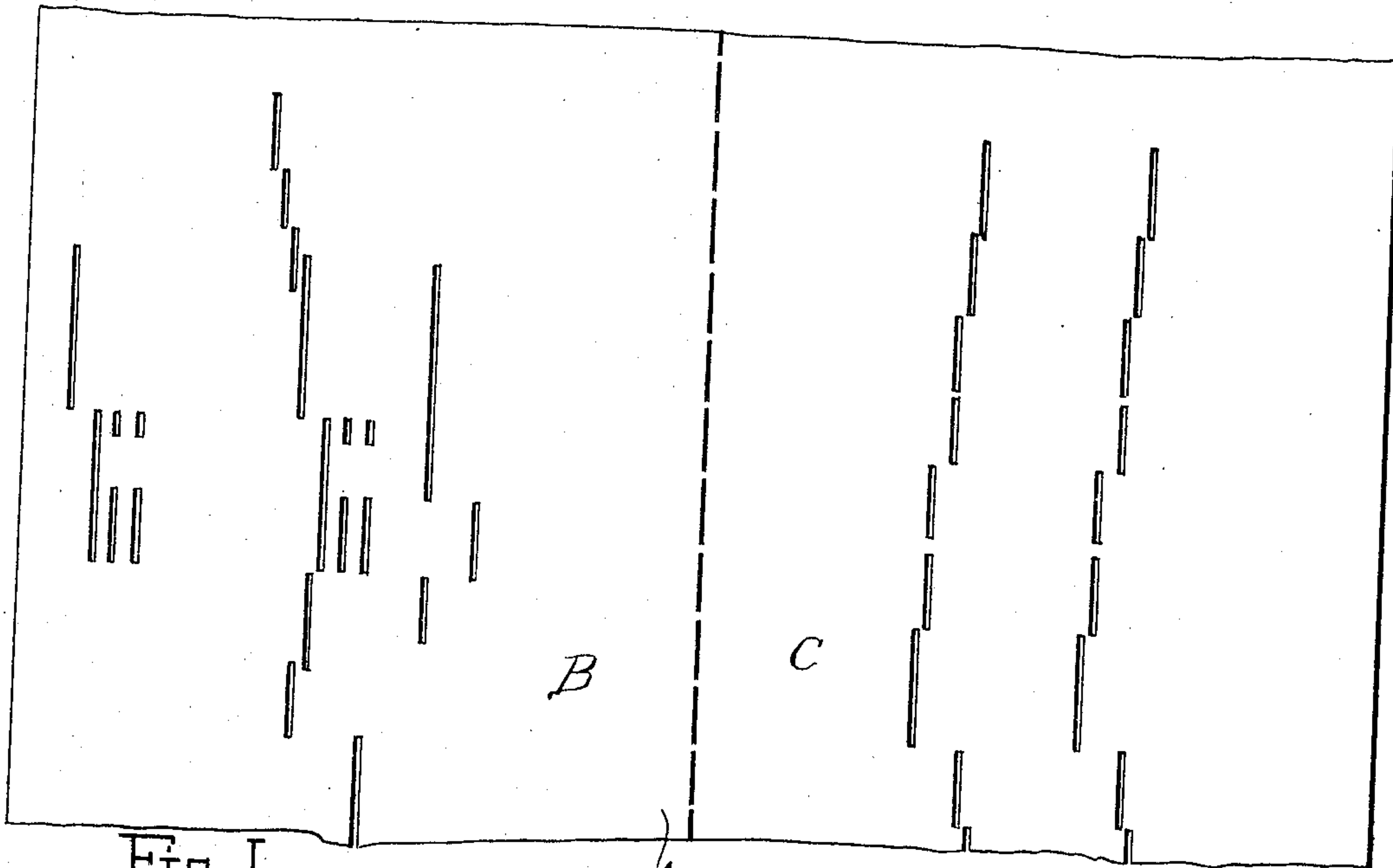


Fig. 1.

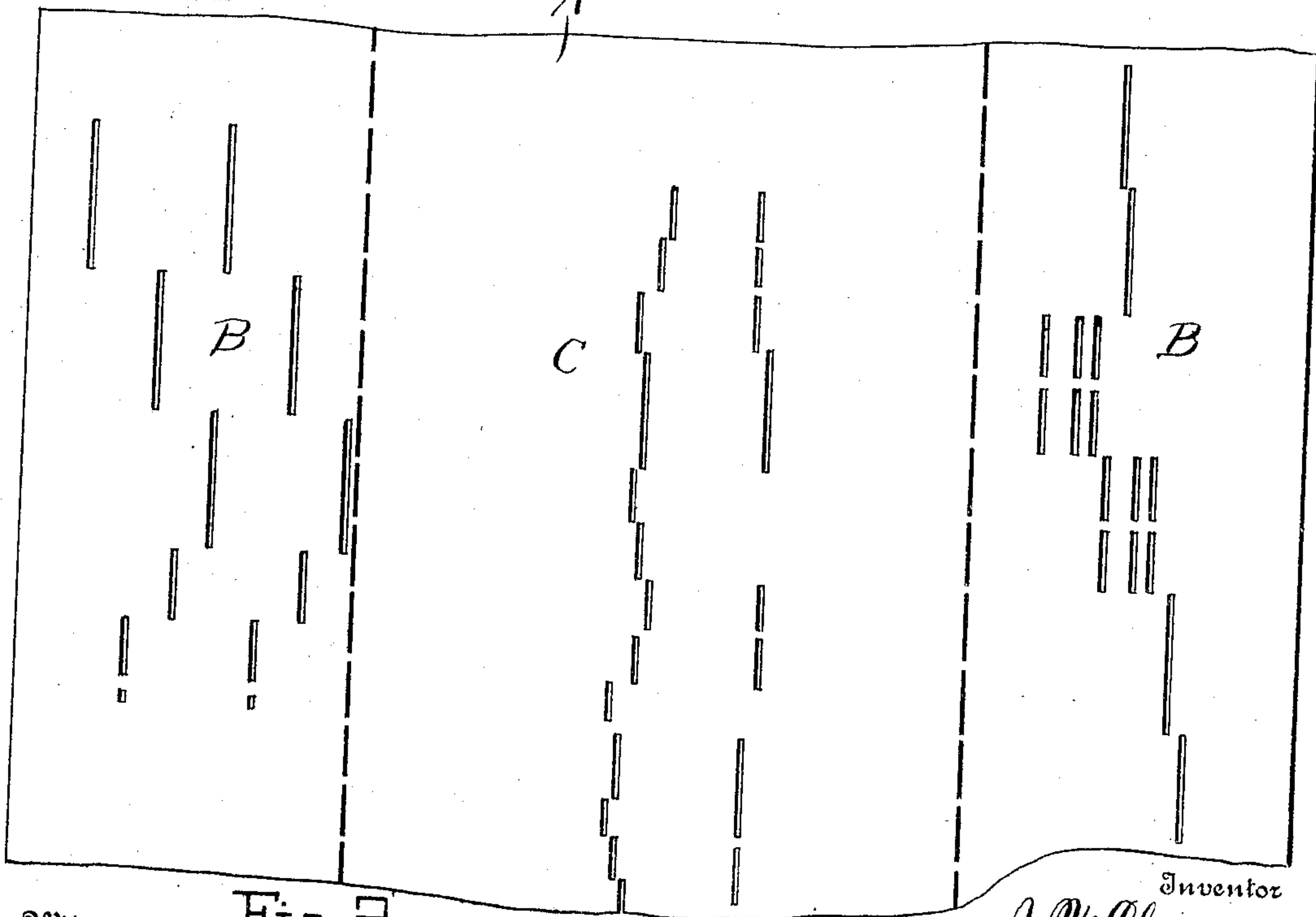


Fig. 2.

Witnesses

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2 SHEETS—SHEET 2

Fig. 3.

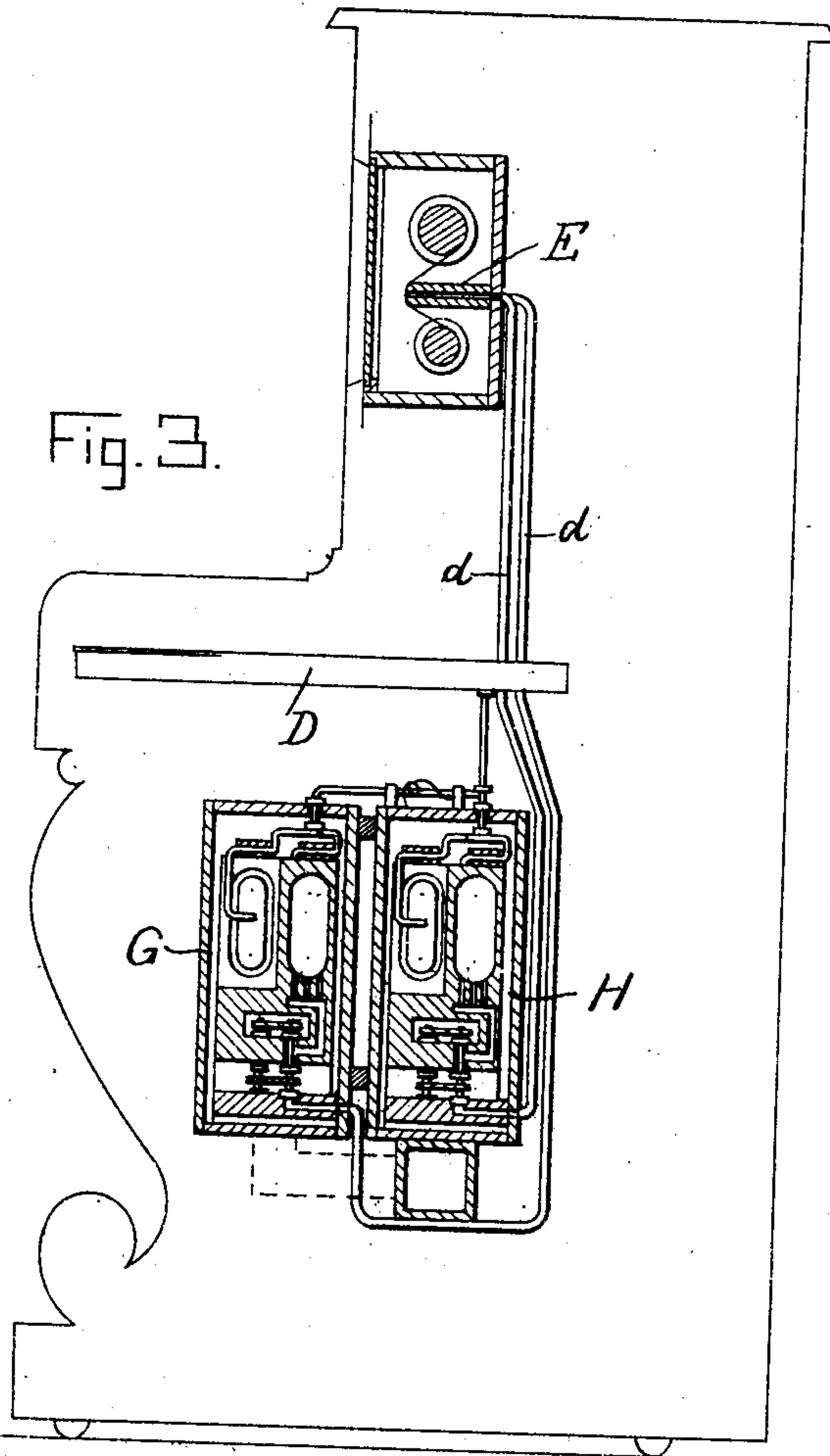


Fig. 4.

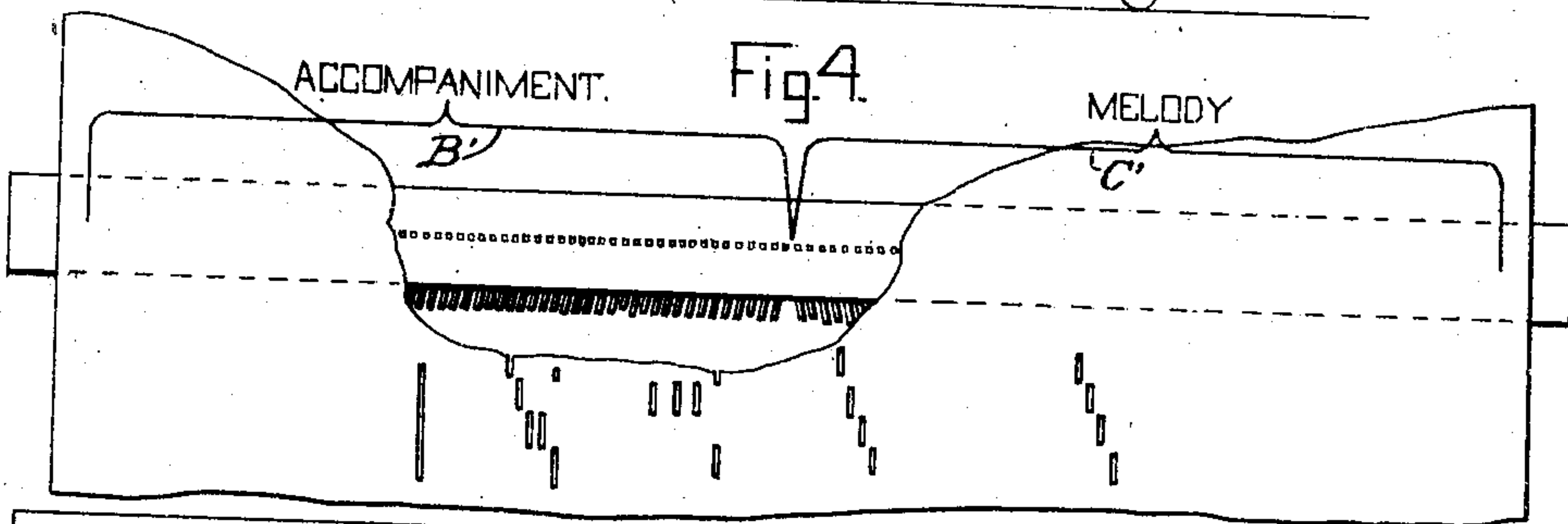
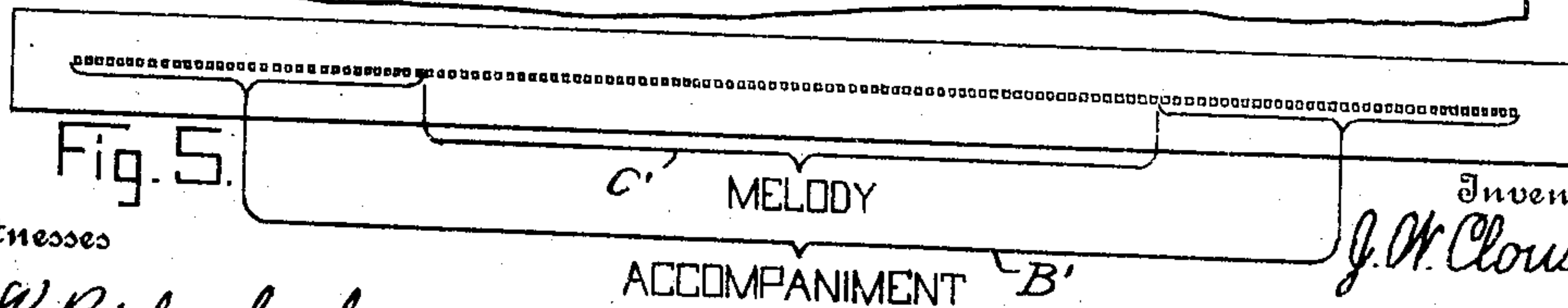


Fig. 5.



Witnesses

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NOTE-SHEET FOR AUTOPNEUMATIC PIANO-PLAYERS.

No. 889,204.

Specification of Letters Patent.

Patented June 2, 1908.

Application filed March 8, 1906. Serial No. 304,994.

To all whom it may concern:

Be it known that I, JOHN WILLIAM CLOUSE, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Note-Sheets for Autopneumatic Piano-Players; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The present invention has reference to piano players and it aims to provide an improved note sheet adapted especially for use in connection with the particular form of tracker disclosed in my co-pending application for patent on piano players, filed on or about March 7, 1906, Serial No. 304,739.

The tracker, which is likewise shown and described in this application, is provided with a double series of orifices, one for the melody and the other for the accompaniment notes of a selection, there being a separate vacuum chest for each series and a communication between each orifice and the corresponding vacuum chest.

It is the object of this invention, therefore, as above stated, to provide a note sheet designed for use in connection with a tracker of such construction, the predominant characteristic of the sheet residing in the provision in each section of the sheet, of a perforation corresponding to each note of the corresponding part of the selection to be played.

The invention will be readily understood from a consideration of the following detailed description and from an inspection of the accompanying drawings in which like parts are designated by corresponding reference numerals, throughout the several views.

Of the said drawings, Figure 1 is a plan view of a portion of a note sheet constructed in accordance with the present invention. Fig. 2 is a similar view of slightly modified form thereof, Fig. 3 is a vertical sectional view of the piano which forms the subject of the above mentioned application, Fig. 4 is an enlarged detail view of the tracker with which the preferred form of note sheet is used, the latter being likewise shown, Fig. 5 is a similar view of a modified form of tracker and the note sheet used therewith.

As regards the piano player itself, which is shown in Fig. 3, a detailed description of the elements thereof will be found in the applica-

tion above identified, and as the instrument as a whole forms no part of the present invention, a full description thereof has not been included in this application.

In the drawings therefore D indicates generally the keyboard, E the tracker, and A the note sheet which travels across the perforated front face thereof in the usual manner, each perforation or orifice of the tracker having a separate duct connection *d* with the proper vacuum chest G or H, from which the air is exhausted by the pedal-operated bellows mechanism, not shown.

The improved tracker is somewhat longer than the tracker now in use, and is provided with a single line of orifices divided into two entirely separate series B¹ and C', one following directly after the other, there being an orifice in each series corresponding to approximately every key of the key-board, or to be exact, each series contains 65 orifices, each of which is connected by its duct *d* with the corresponding primary pneumatic, disposed within the corresponding vacuum chest. As above stated, two separate vacuum chests are made use of in the present invention, one of which is used for the melody of a composition, and the other for the accompaniment, each chest having means of communication with the bellows.

The note sheet used in connection with the tracker above described, in its preferred form, is provided upon one side of its middle, considered longitudinally, with perforations B and at the opposite side with perforations C, the dotted line appearing in Fig. 1 being for the purpose of illustrating the line of demarcation between the series of perforations. In the modified form of sheet shown in Fig. 2, the series of perforations B is subdivided and one of the subdivisions is located upon each side of the series of perforations C, which series, in this instance, is located within the boundary of the dotted lines shown in the figure, the boundary lines of the series being located at equidistant points from the side edges of the sheet. In practice the perforations B and C constitute respectively, the melody and accompaniment notes of a composition. Therefore, owing to the fact that the tracker includes two separate series of perforations, each of which independently controls the entire number of keys of the instrument, and that one section of the note sheet contains a separate perforation for each and every note of the melody while the other

section is similarly provided with a perforation corresponding to each and every note of the accompaniment of the selection to be played, it will be apparent that either part of the selection can be played and accentuated absolutely independently of the other.

In the modified form of sheet, the broad central section contains all the accompaniment perforations, while the two side sections jointly contain all the melody perforations, the modified form of sheet being used only in connection with the modified form of tracker, as will be understood.

What is claimed, is,

1. The combination, in a pneumatic piano-player, of a perforated note sheet, a tracker and sound producing means, the note sheet and tracker being each provided with a plurality of separate divisions, the divisions of the note sheet corresponding to the melody and accompaniment parts of the selection to be played and containing, respectively, all of the melody and accompaniment perforations, said last-mentioned divisions separately containing perforations corresponding to all of the tones of the selection to be played, and having a width sufficient to completely cover the corresponding division of the tracker.
2. The combination, with a tracker, and sound producing means, as herein described, of a perforated note sheet having a plurality of divisions, one of which divisions contains all of the melody perforations and the other of which divisions contains all of the accompaniment perforations, the melody division of the sheet containing perforations corresponding to tones within the compass of the accompaniment.
3. The combination, with a tracker, and sound producing means, as herein described,

of a perforated note sheet having a plurality of divisions corresponding respectively to the melody and accompaniment parts of the selection to be played, the melody and accompaniment divisions containing all of the melody and accompaniment perforations respectively, the melody and accompaniment divisions of the sheet containing perforations corresponding respectively, each to tones within the compass of the other.

4. The combination, in a pneumatic piano-player, of a perforated note sheet, a tracker, and sound producing means, the note sheet having a plurality of divisions each of which contains a perforation corresponding to each note of the selection to be played.

5. The combination, in a pneumatic piano-player of a perforated note sheet, a tracker, and sound producing means, the note sheet and the tracker each having a plurality of corresponding divisions, each division of the tracker having a duct corresponding to each note of the selection to be played.

6. The combination, in a pneumatic piano-player, of a perforated note sheet, a tracker, and sound producing means, the note sheet having a plurality of divisions one of which divisions contains all the melody perforations, and the other of which divisions contains all of the perforations of the selection to be played, the tracker being provided with a series of ducts having a plurality of independent divisions, each of which contains a duct corresponding to each note of the selection.

In testimony whereof, I affix my signature, in presence of two witnesses.

JOHN W. CLOUSE.

Witnesses:

F. C. JONES,
GEO. H. CHANDLES.