

N° 19,005



A.D. 1898

Date of Application, 6th Sept., 1898—Accepted, 7th Jan., 1899

COMPLETE SPECIFICATION.

Improvements in Organs and like Musical Instruments.

I, FRIEDRICH ERNST PAUL EHRLICH, Director of the Fabrik Leipziger Musikwerke, vorm. Paul Ehrlich & Co., of Gohlis, near Leipzig, in the Kingdom of Saxony, in the Empire of Germany, do hereby declare the nature of this invention, and in what manner the same is to be performed, to be particularly described
5 and ascertained in and by the following statement:—

The nature of my invention consists in a mechanism for transmitting the movement of the key of an organ or like musical instrument to the valve or valves of the reed cell or cells by which a more simple and more efficient connection of the keys with the valves of the reed cells or wind box is obtained than
10 heretofore.

In order to enable others to make and use my invention I will now proceed to describe its constructions and operation in referring to the accompanying drawings, in which

Figure 1 is an elevation of the improved parts of the musical instrument
15 partly in section,

Figure 2 is a plan of a part of the arrangement shown in Figure 1,

Figure 3 is an elevation of a modification of devices shown in the former figures, whilst

Figure 4 represents a modified part of the invention and

20 Figures 5 and 6 illustrate in a plan view and a front view respectively parts of the devices shown in Figures 1 to 3.

Similar letters of reference indicate like parts.

a indicates the key in operating which the lever *c* is turned around its fulcrum (in the ledge *b*) by means of the stud *a*¹. The stud is adjustable in its position
25 towards the key. The movement of the lever *c* is communicated to a second lever *f* *f*¹ arranged with its fulcrum in the rail *e* on top of the cell or box by means of the connecting rod *d* so that the arm *f* of this lever presses down by means of a rod guided in the wall of the box and provided with a stud *h* on top of which rests the lever arm *f*¹, the arm *g*¹ of the valve lever arranged inside of
30 the reed box whereby the valve *g* is opened so that the reed sounds. For the purpose of simultaneously actuating two or more reeds by means of one single key the lever *g*¹ may be arranged as a double armed lever (see Fig. 1) the arm *g*² operating a like lever provided in the adjacent cell by means of a rod *i* guided in the wall which separates both cells, and so on.

35 In the modification according to Figure 3 the lever *f* is appropriately connected with the base plate of the box; consequently the rod *d* which may, as shown in Figure 4, consist of two pieces connected by a hinge, which is suitably guided for instance by a lever *d*¹, has been elongated to meet the lever *f* and the inner lever *g*¹ has become a double armed lever.

40 The manner in which the levers *f* actuating the rods *h* are arranged is illustrated in Figure 5 whilst Figure 6 exhibits the arrangement of the connecting rods *d* which transmit the movement of the levers *c* to the levers *f*.

[Price 8d.]

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Ehrlich's Improvements in Organs and like Musical Instruments.

I do not confine myself to the precise form and arrangements of the several parts and devices of my invention as above described as they admit of various modifications without departure from the principle of its construction and operation.

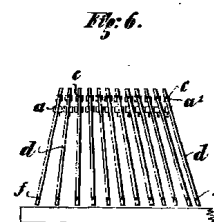
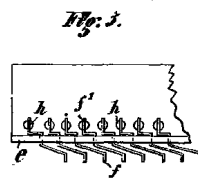
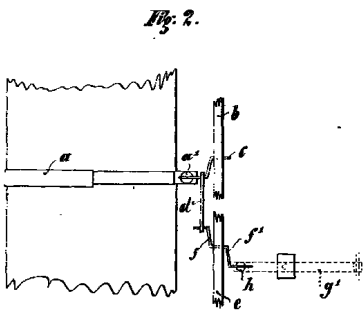
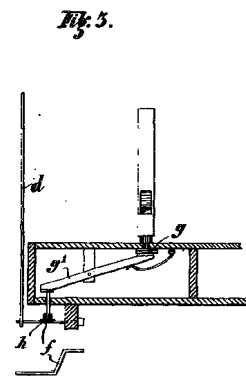
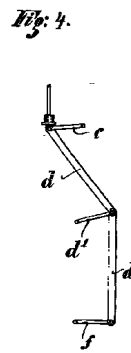
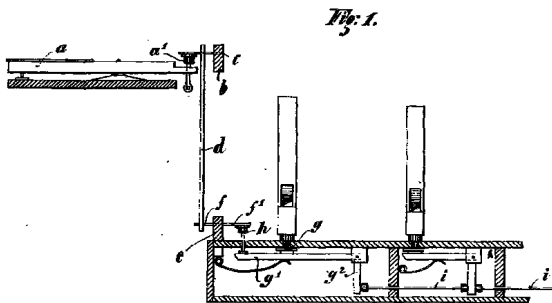
Having now particularly described and ascertained the nature of my said invention, and in what manner the same is to be performed, I declare that what I claim is:—

1. A mechanism for connecting the keys of an organ or like musical instrument with the valves of the reed cells or wind box comprising a rod *d* connecting a lever *c* actuated by the key by suitable intermediate means with a lever *f* and 10 means for transmitting the movement of this lever to the valve, essentially as described.

2. A mechanism for connecting the keys of an organ or like musical instrument with the valves of the reed cells or wind box comprising a rod *d* connecting a lever *c* actuated by the key by suitable intermediate means with a lever *f* 15 and a rod guided in the cell-wall and provided with a stud *h* upon which the lever rests, essentially as described.

Dated this 6th day of September 1898.

HASELTINE, LAKE & Co.,
45, Southampton Buildings, London, W.C., 20
Agents for the Applicant.



[This Drawing is a reproduction of the Original on a reduced scale]

Fig. 1.

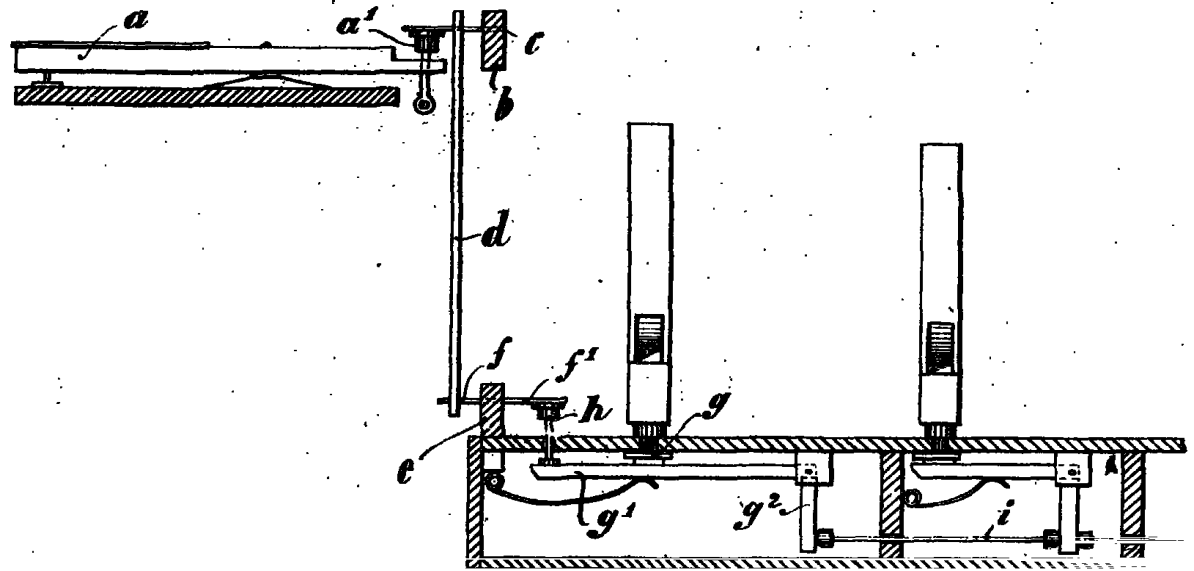


Fig. 2.

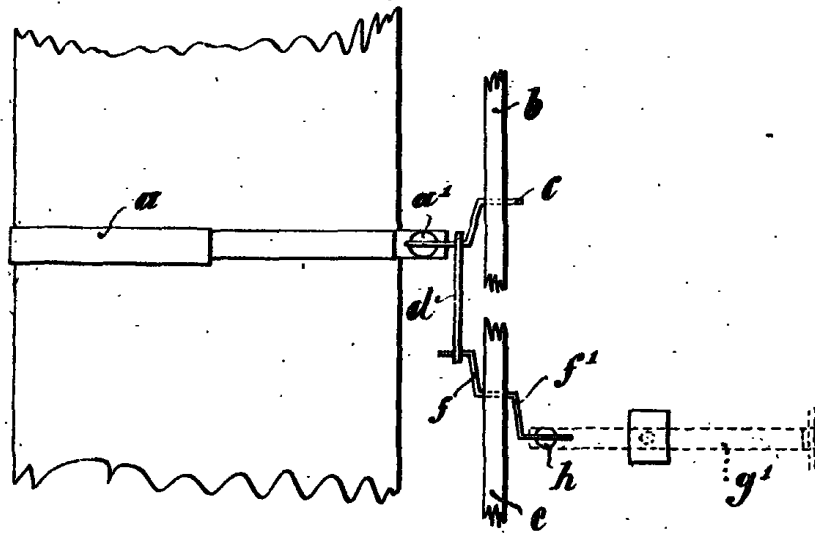


Fig. 4.

Fig. 5.

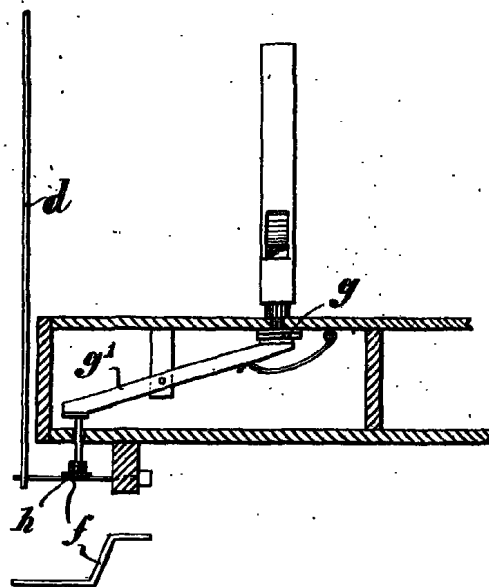
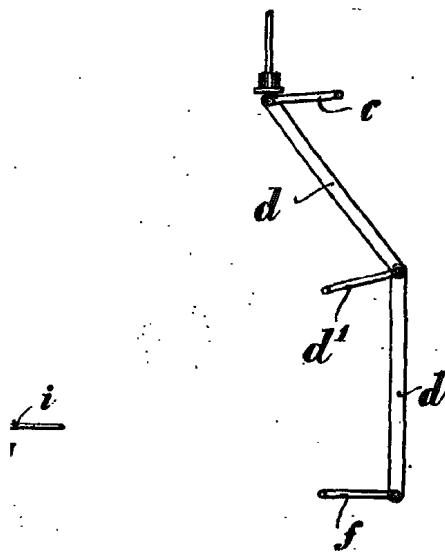


Fig. 5.

Fig. 6.

