

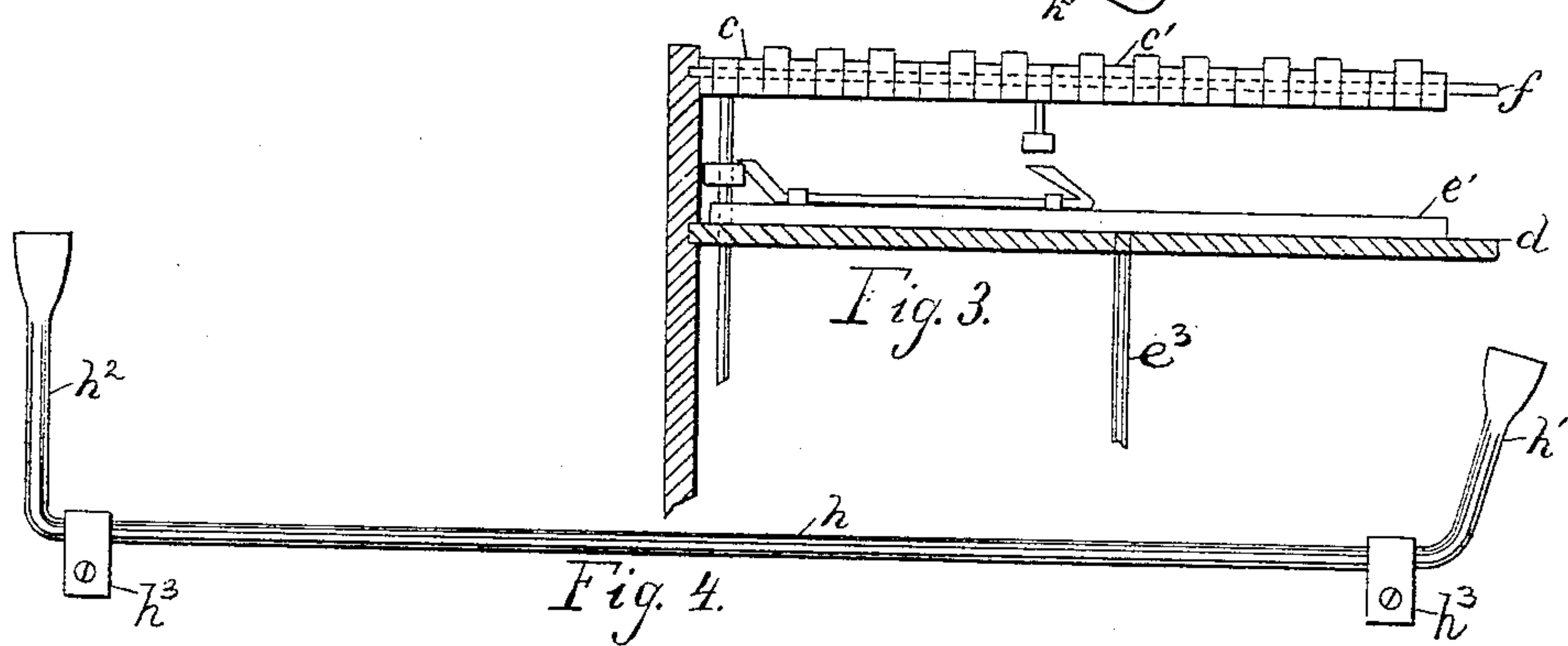
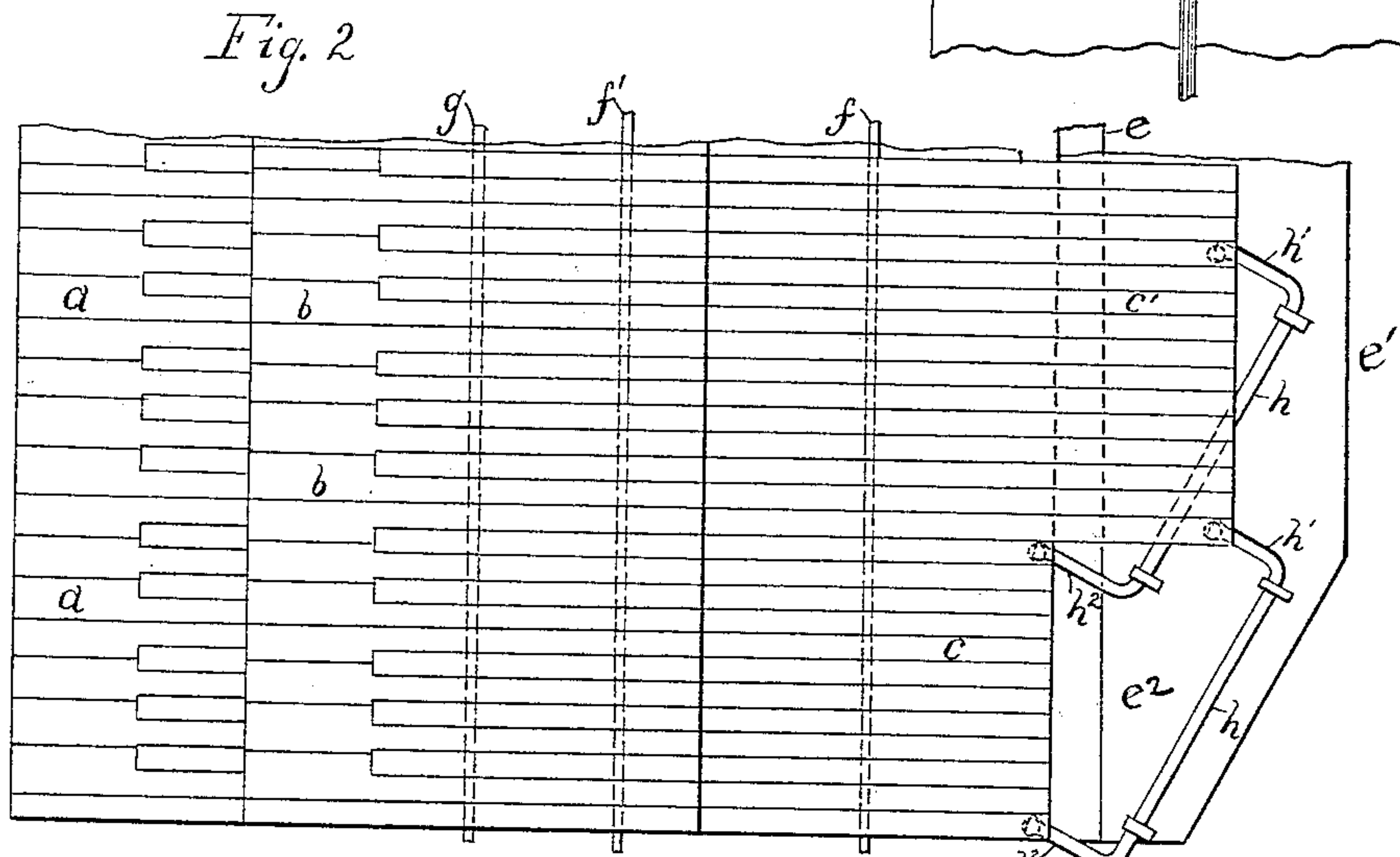
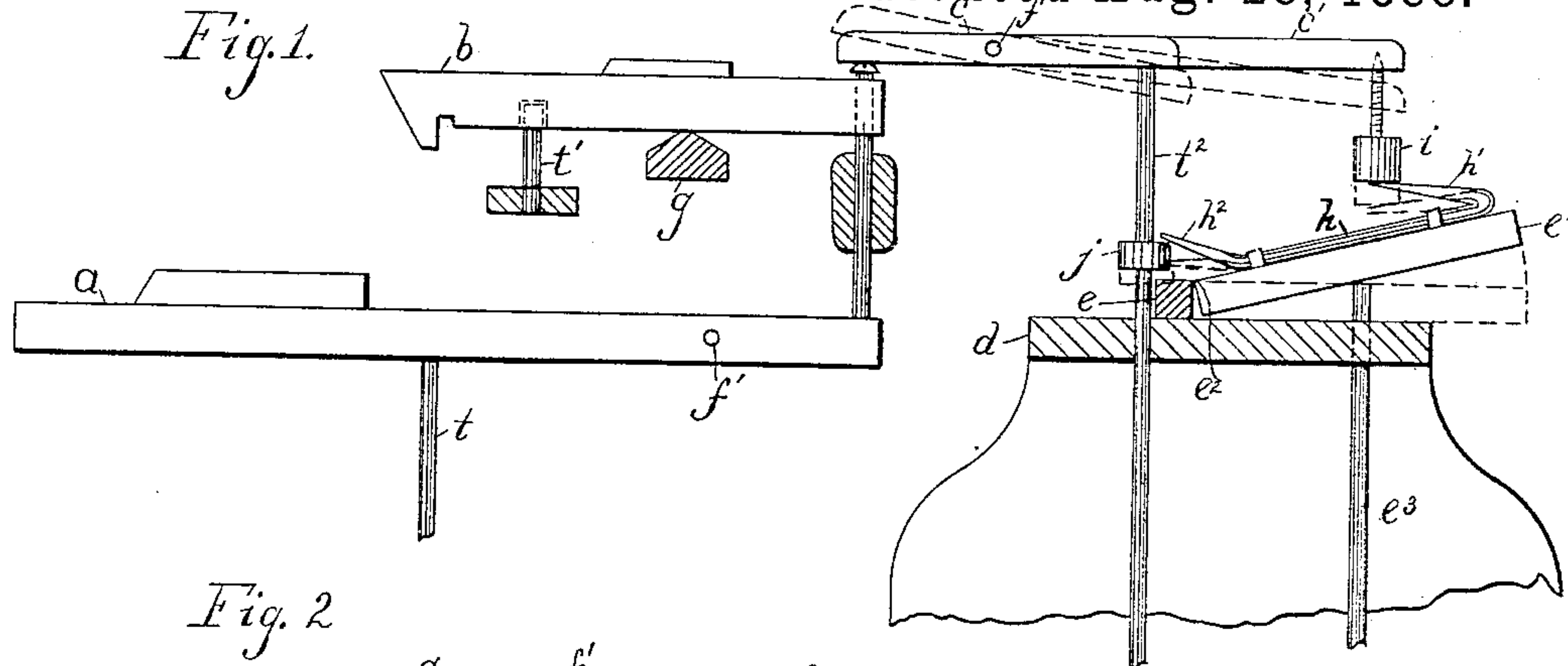
(No Model.)

J. HESSLER.

MANUAL COUPLER FOR ORGANS.

No. 388,489.

Patented Aug. 28, 1888.



Witnesses:  
H. A. Smith.  
T. Vogel.

Inventor:  
Jacob Hessler.  
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# UNITED STATES PATENT OFFICE.

JACOB HESSLER, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE W. W. KIMBALL COMPANY, OF SAME PLACE.

## MANUAL COUPLER FOR ORGANS.

SPECIFICATION forming part of Letters Patent No. 388,489, dated August 28, 1888.

Application filed March 24, 1888. Serial No. 262,335. (No model.)

*To all whom it may concern:*

Be it known that I, JACOB HESSLER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have  
5 invented certain new and useful Improvements in Organ Attachments, which are fully set forth in the following specification, reference being had to the accompanying drawings, forming a part hereof, and in which—

10 Figure 1 is a side, Fig. 2 a plan, and Fig. 3 a rear, view of an organ-action provided with my improved organ attachment or octave-coupler; and Fig. 4 shows an octave-coupler wire in plan.

15 Like letters refer to like parts.

The object of my invention is to improve the construction of reed and other organs whereby, when playing upon the upper bank of keys, as  
20 *b*, I am enabled to operate the reeds of one or more octaves above or below in said upper manual. To attain said end I construct my new device substantially as follows, namely: I extend the ordinary connecting-levers *c* after  
25 the first octave from either end of the instrument a sufficient distance beyond the tracker-pins *t*<sup>2</sup>, so as to form the extended levers *c'*, and to the under side and near the outer end of said levers *c'*, I attach a coupler-regulator, *i*, which is in the form of a screw-threaded shank  
30 with a cylindrical head adapted to be nicely adjusted to bear upon the arm *h'* of the two-armed coupler wire *h*. Said coupler-wire is made of a piece of wire bent into the form as shown, so as to form on its ends the arms *h'* *h*<sup>2</sup>  
35 at proper distances apart to connect with the desired keys above or below.

Upon the board *d*, serving as a foundation for the coupler, is attached a strip of wood, *e*, to which is hinged the coupler-wire board *e'*,  
40 upon which are attached the coupler-wires *h*. Said wires *h* are placed in an inclined direction merely for the purpose of having one single pattern of the form and size shown answer all requirements, and are attached by means of  
45 staples or little blocks and screws *h*<sup>3</sup> to the board *e'*, so as to let the arms *h'* *h*<sup>2</sup> play up and down freely.

The hinged board *e'* may be raised and lowered either by means of a pull operating an eccentric, lever, or any other well-known device

for such purpose; or, if preferred, it may be operated by means of a pedal under a rod *e*<sup>3</sup>, as here shown.

Upon the tracker-pins *t*<sup>2</sup> are attached collars *j*, upon which rests the arm *h*<sup>2</sup> of the coupler-wire, and the arm *h'* passes under the head of the adjuster or regulator *i*. 55

From the foregoing description the operation of the mechanism is already suggested sufficiently to be intelligible for one versed in the  
60 art of constructing this kind of instruments; but in order to cause said parts to act or not at will the parts *e e'* are hinged together at *e*<sup>2</sup>, so that the board *e'* may be raised and lowered by means of the rod *e*<sup>3</sup>, so as to bring the arm  
65 *h'* into operative contact with the under side of the head of the regulator *i*, after which, when the keys *b* are operated so as to move the levers *c'* into the positions indicated by the broken lines, the tracker-pins *t*<sup>2</sup> will be de- 70  
pressed.

Only two coupler-wires *h* are shown, one at each extremity of an octave, the intermediate ones being omitted for the purpose of showing the matter with less liability to confusion. 75

It is self-evident that the coupler attachment may be from either end of the manual.

The parts *a b c d f f' g t t' t* are old and well-known features of reed-organs.

What I claim is— 80

1. In combination with the upper manual of a double-bank organ and the extended levers *c'*, fulcrumed at *f*, the regulators *i*, two-armed couplers *h*, and collared tracker-pins *t*<sup>2</sup>, substantially as specified. 85

2. In combination with the connected upper and lower manuals of a double-bank organ and the extended levers *c'*, fulcrumed at *f*, the regulators *i*, two-armed couplers *h*, and collared tracker-pins *t*<sup>2</sup>, substantially as specified. 90

3. In combination with the lower manual of an organ and extended levers *c'*, fulcrumed at *f* and connected with said manual, the regulators *i*, two-armed couplers *h*, and collared tracker-pins *t*<sup>2</sup>, substantially as specified.

March 17, 1888.

JACOB HESSLER.

Witnesses:

T. VOGEL,

WM. ZIMMERMAN.