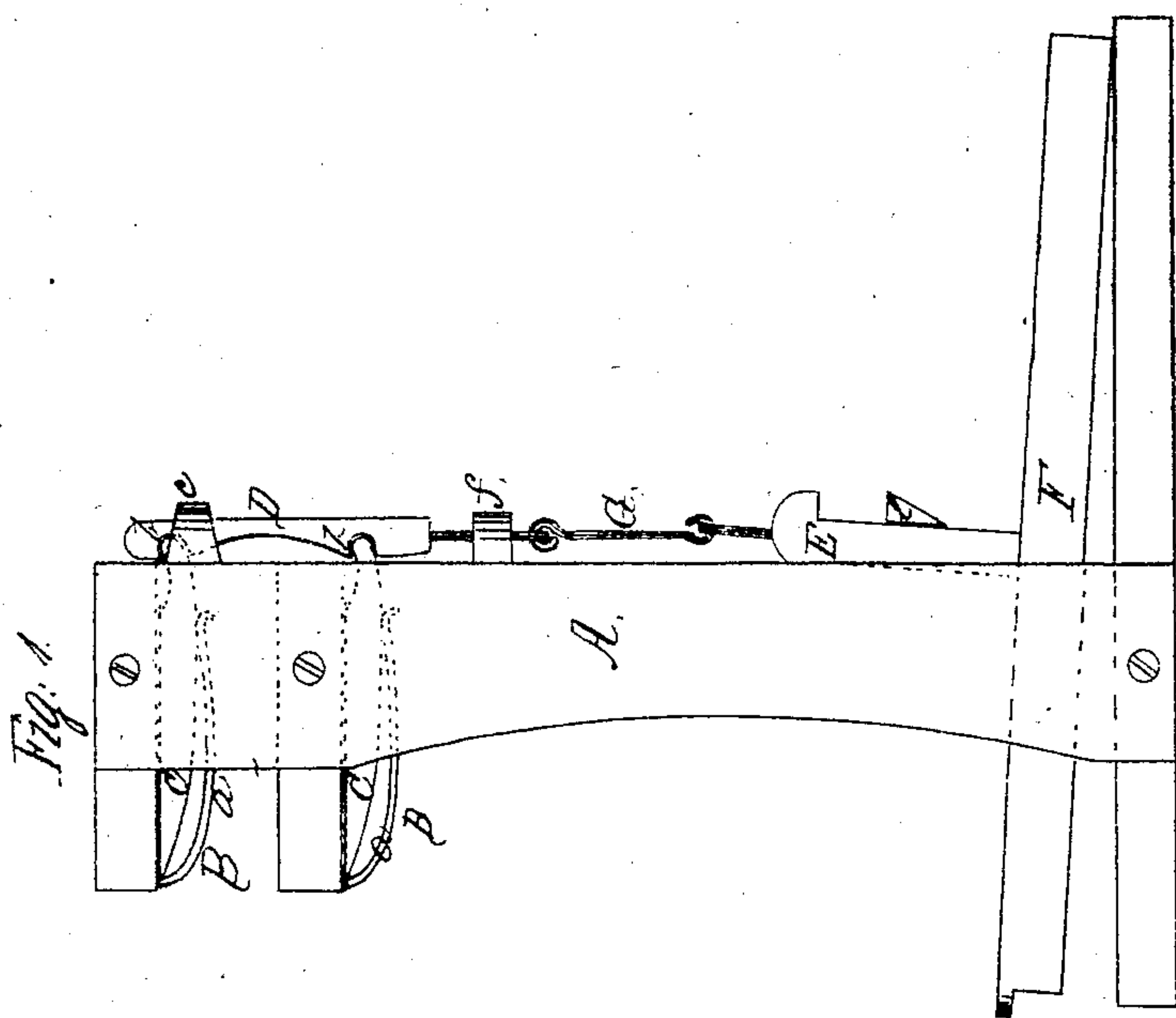
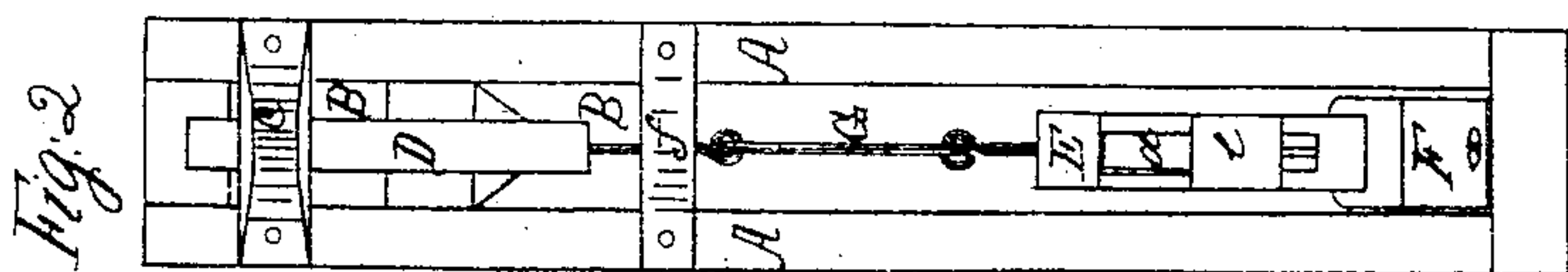


J. Berger.  
*Imp<sup>d</sup> Key-Coupling for Musical Instruments.*  
 N<sup>o</sup> 73072                      Patented Jan. 7, 1868.



WITNESSES  
 Jesse Jeff  
 Edwin P. Goodwin

INVENTOR  
 Jonas Berger by his  
 Attorney G. B. Birds.

# United States Patent Office.

JONAS BERGER, OF KNOXVILLE, ILLINOIS.

*Letters Patent No. 73,072, dated January 7, 1868.*

## IMPROVEMENT IN KEY-COUPLING FOR MUSICAL INSTRUMENTS.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, JONAS BERGER, of Knoxville, in the county of Knox, and State of Illinois, have invented a new and useful Improvement in Key-Couplings in Musical Instruments; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side view of the upright frame of a melodeon.

Figure 2, a rear view of the same.

Like letters in both figures of the drawings indicate like parts.

My application is intended as a completion of that in melodeons patented by me, May 14, 1867, and embraces what may be termed the second division of that; therefore, for a clearer exhibition of such parts as are not well understood in this, reference may be had to such as will appear in the drawings of that.

In those instruments where the coupling is used to make the octave by a depression of the first key only, its key is also depressed. This depression, whenever it happens, interferes with an easy and graceful execution of the fingers upon the keys. Now my invention, therefore, consists in the construction of a key-coupling in which the octave is operated without depressing its key.

To enable any one skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A is the upright frame of a melodeon; B B, the swell-boxes; C C, the valves, with springs *a a* pressing against their under sides. D is an upper standard, with notches *b b* to receive the ends of the valves, in which they play when operated on. The standard is properly secured to the frame by a cross-piece, *c*, cut out sufficiently for the standard to work freely in. E is a lower standard, attached to a key, F. On the back side of it is a groove, in which fits the slide *d*, having a cleat, *e*, attached to it. A short lever, connecting with the ordinary coupling at one end, will be made fast to it. The other will connect with the first key of the octave.

The arrangement of the coupling will be more fully understood by reference to Letters Patent herein referred to. The upper and lower standards are connected by straps, G, in three sections. The first section is properly secured to the slide through the standard, and the second to the first and third by being suitably hooked to them; the third section being secured to the upper standard, and passing through a cross-piece, *f*, attached to the frame for keeping the straps steady.

### Operation.

In operating the octave, the first key of the same, being pressed down, it will be seen that the coupling will press down the slide in the groove of the standard, which works loosely but snugly therein, and thus operate the valves without depressing octave key.

I do not propose to limit myself to the particular device herein described, but claim any equivalent device that will accomplish the result.

Having thus fully described my invention, what I claim therein as new, and desire to secure by Letters Patent, is—

1. The construction of a key-coupling, in which the octave is operated without depressing its key, substantially in the manner and for the purpose as herein specified.
2. The construction of the key-board F with standards E, and providing the same with grooves and slides, *d*, in combination with the straps G, cross-pieces *f* and *c*, standards D, valves C C, and springs *a a*, all arranged substantially in the manner and for the purpose as herein specified.

JONAS BERGER.

Witnesses:

ALBERT PIERCE,

ELI COVER.