

(No Model.)

R. BERGNER.

ACCORDION.

No. 252,010.

Patented Jan. 10, 1882.

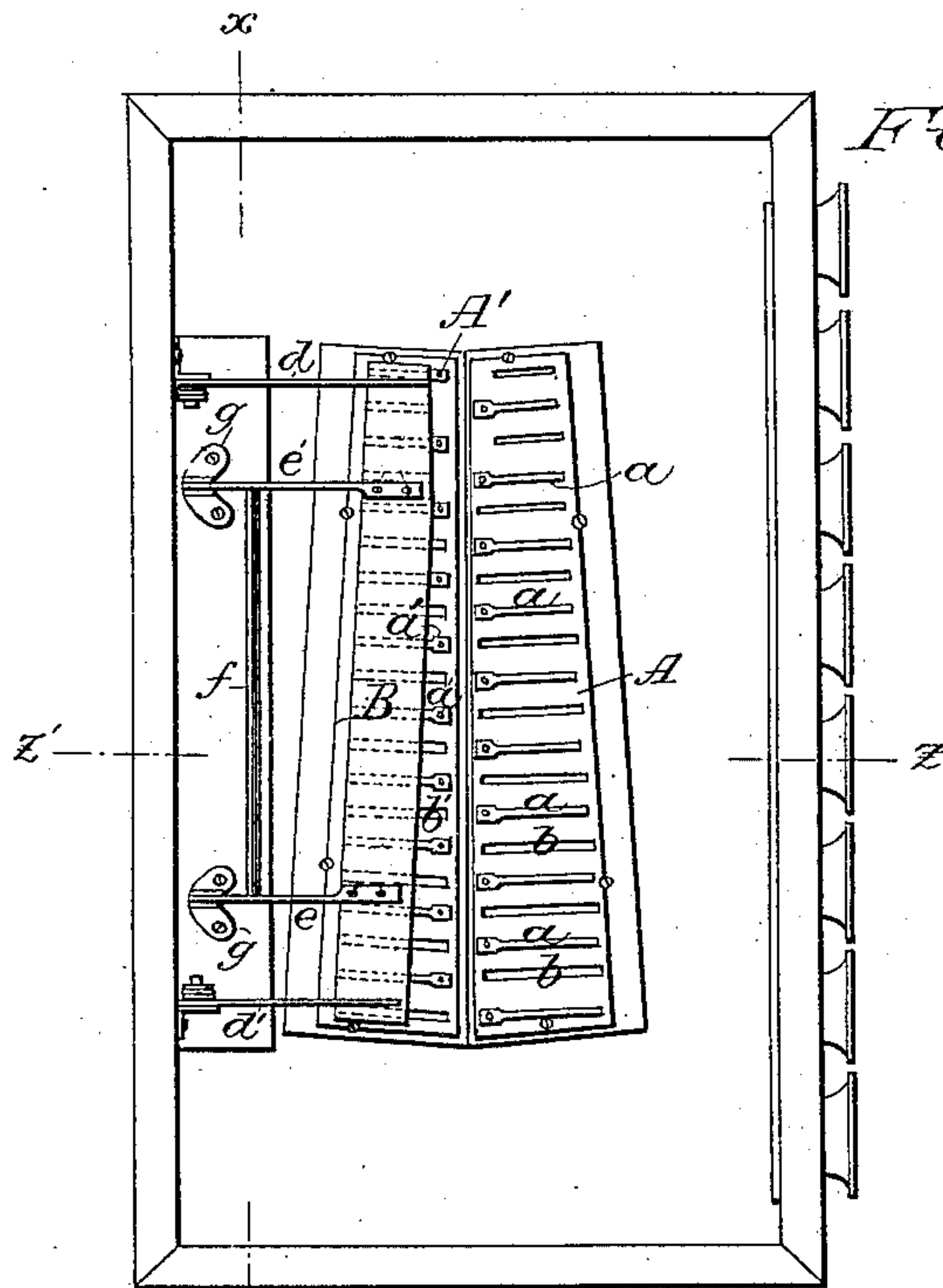


Fig. 1.

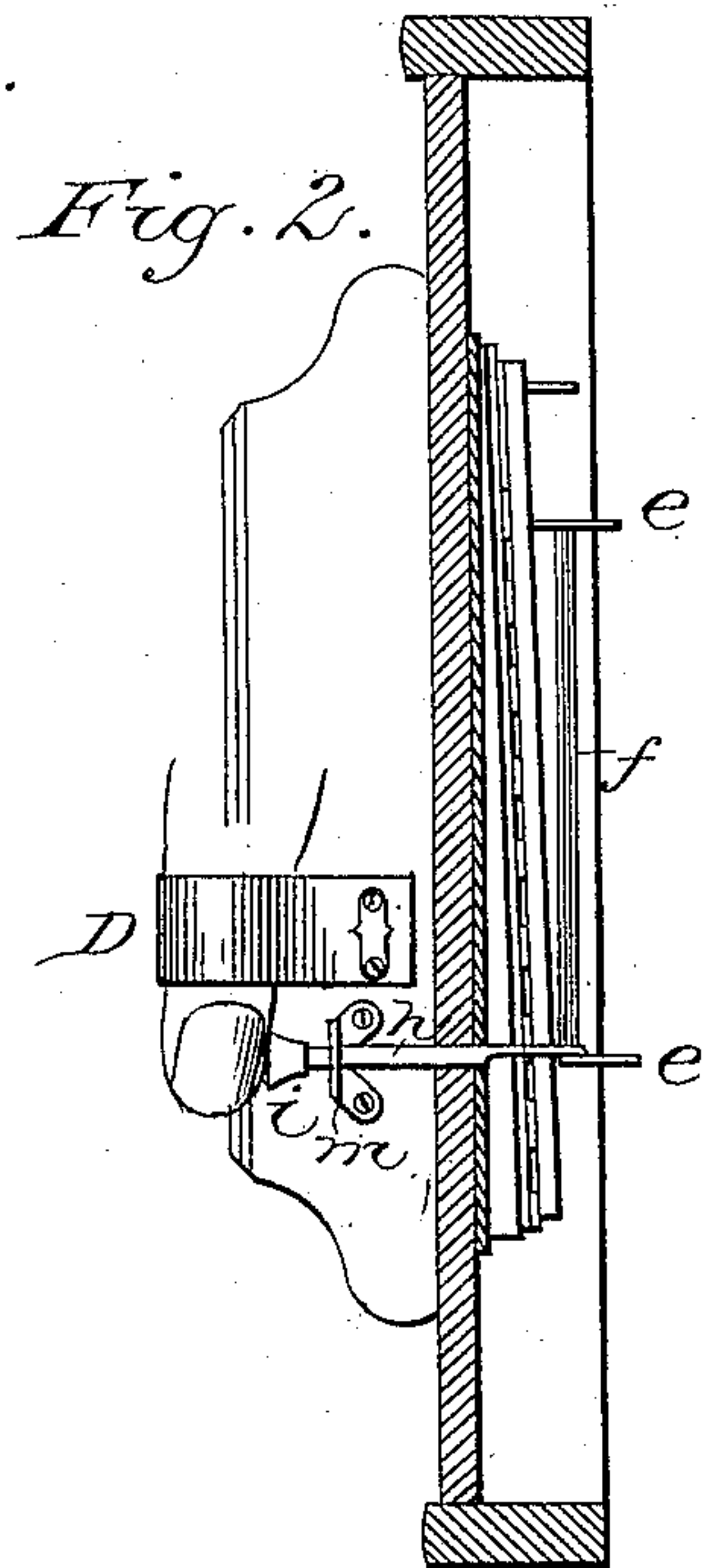


Fig. 2.

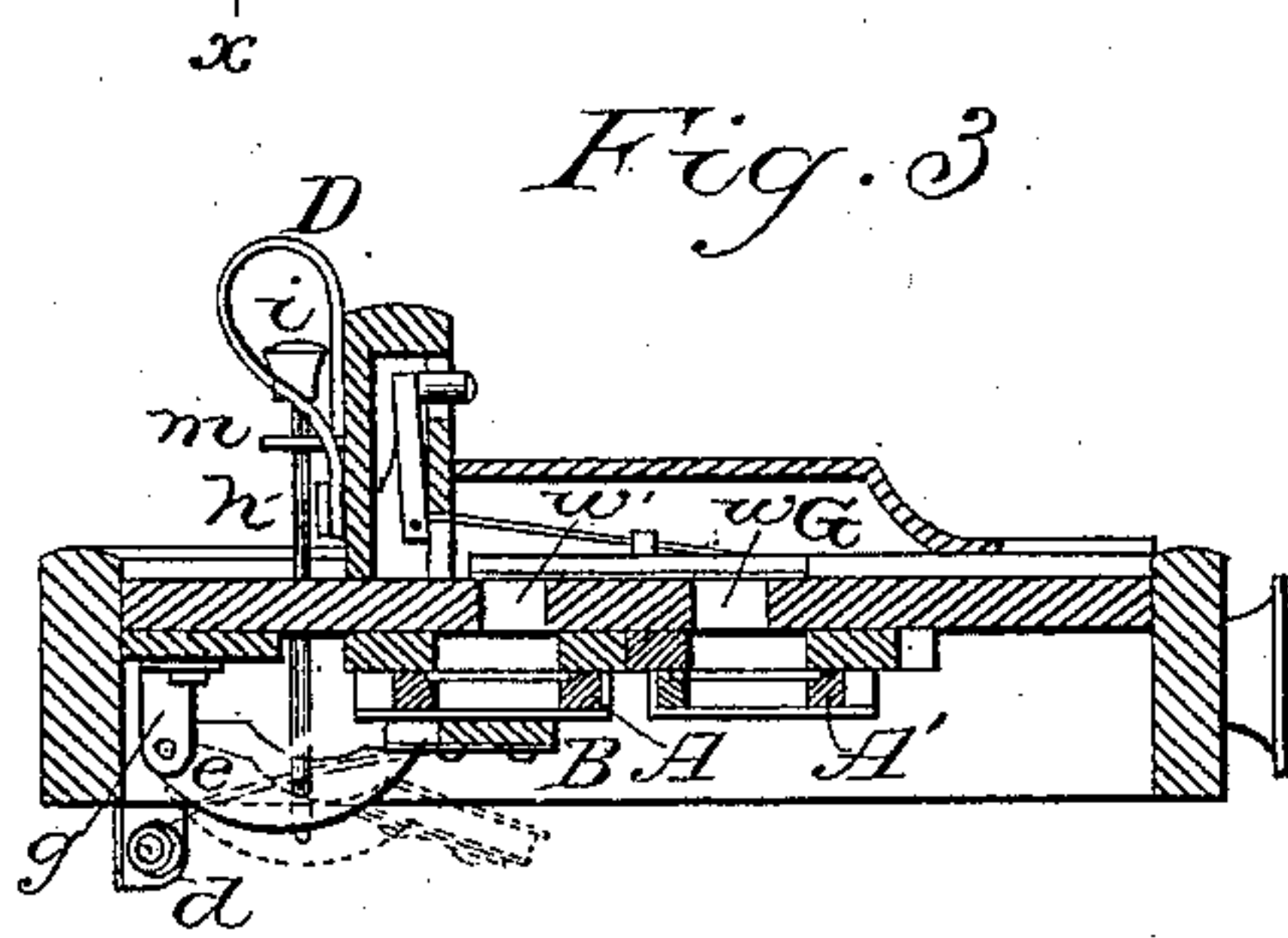


Fig. 3.

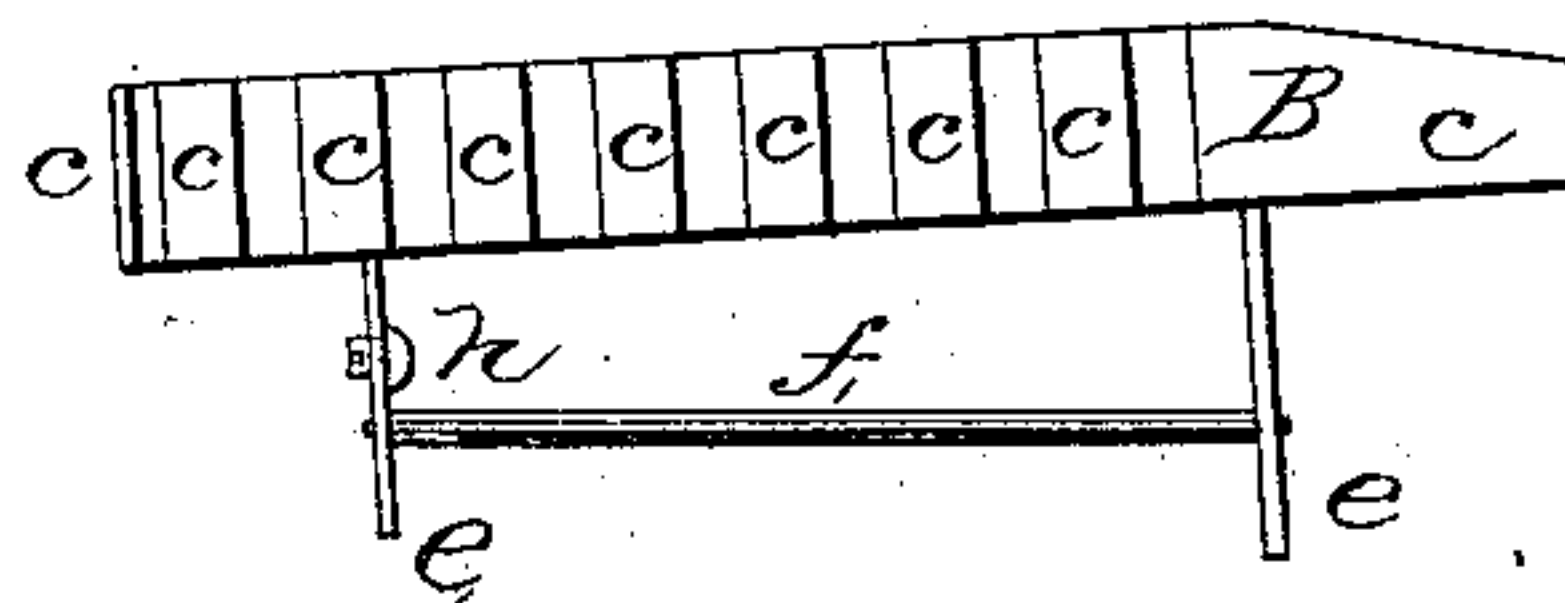


Fig. 4.

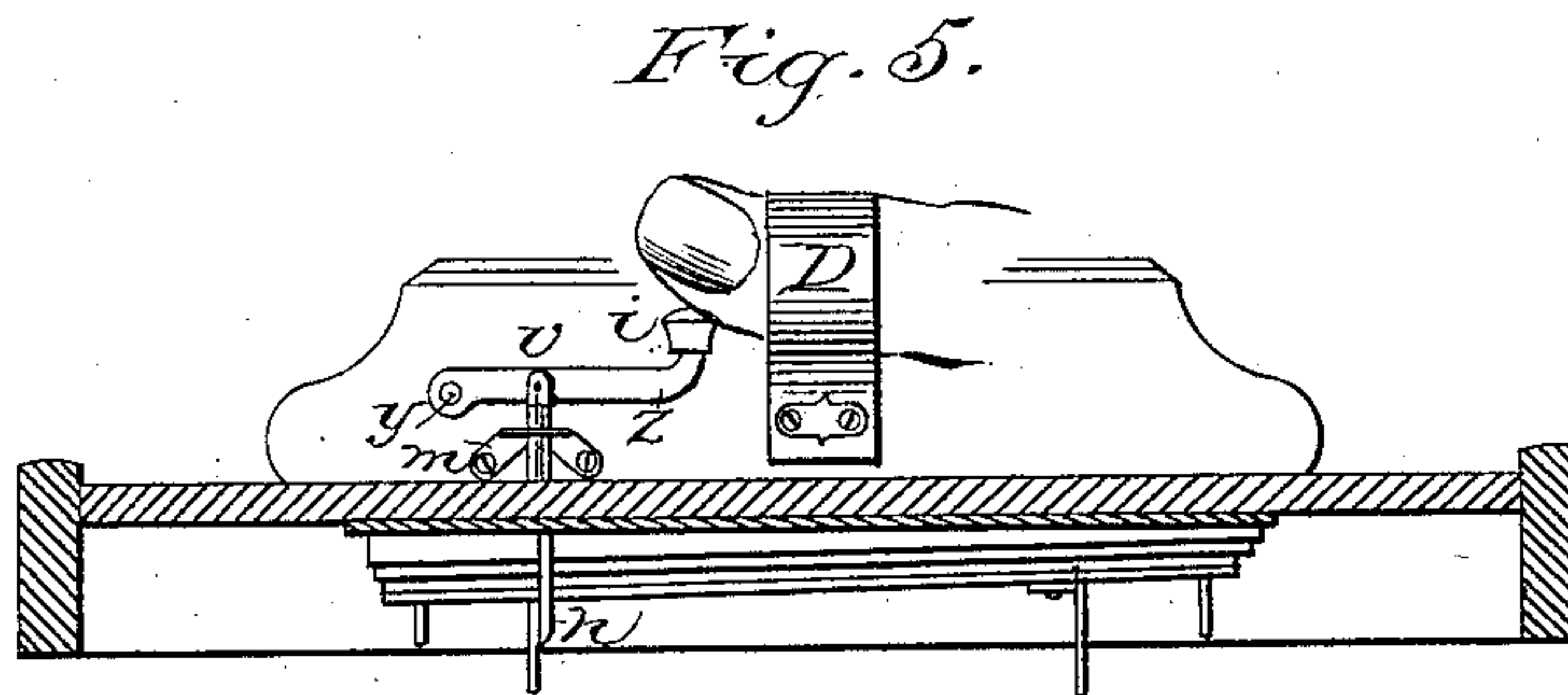


Fig. 5.

Witnesses:

John F. Allen  
Wm. H. Cosmell

Inventor:

Rudolf Bergner  
per Henry S. Pender  
Attorney.

# UNITED STATES PATENT OFFICE.

RUDOLF BERGNER, OF GERA, REUSS, GERMANY.

## ACCORDION.

SPECIFICATION forming part of Letters Patent No. 252,010, dated January 10, 1882.

Application filed October 15, 1880. (No model.) Patented in Germany March 13, 1880.

*To all whom it may concern:*

Be it known that I, RUDOLF BERGNER, of Gera, Reuss, Germany, have invented a new and useful Improvement in Accordions, of which the following is a specification.

The nature of my invention consists in the arrangement of the gearing for operating the damper in an accordion so that said damper can easily be operated by the thumb of the same hand whose fingers operate the key.

In the accompanying drawings, Figure 1 represents a plan of the under side of an accordion with my improvement attached. Fig. 2 is a longitudinal section at line *xx*, Fig. 1. Fig. 3 is a cross-section at line *z' z'*, Fig. 1. Fig. 4 is a view of the inner side of the damper-bar; and Fig. 5 is a longitudinal section, showing a different arrangement, to be hereinafter referred to.

Similar letters represent similar parts in all the figures.

A A' are the reed-boards, containing the usual reeds, *a a'*, and leather valves *b b'*, in communication with openings *w w'* in the top plate of the accordion. Both openings *w* and *w'* are closed by a single valve, G, operated in the usual manner, so that one action of said valve G will open both openings *w* and *w'* simultaneously. The additional reed-board, A', with its reeds and valves, corresponds exactly with the usual reed-board, A.

Across the reed-board A' a damper-bar, B, is arranged, provided on its inner side with strips *c*, of a suitable material, bearing upon the reeds *a'* to keep the same closed, and consequently out of action. The damper-bar B is attached to levers *e e'*, hinged at *g*, and is acted upon by suitable springs, *d* and *d'*, to keep the same close upon the reeds *a'*. The levers *e e'* are connected by a cross-bar, *f*, and to either of the levers (as shown in the drawings, to the lever *e*) a rod, *h*, is attached, passing

through the top plate of the accordion, and guided in a suitable guide, *m*. At the end of the rod *h* a suitable button, *i*, is provided, and this rod *h* is arranged to be in a convenient position near the thumb-strap D, for the thumb of the player to operate the same. Whenever a greater sound is required the operator presses the rod *h* downward, thereby moving the damper-bar B clear of the reeds *a'*, as shown in dotted lines in Fig. 3, when the air can operate both reeds *a* and *a'* simultaneously, and thereby increase the sound.

Instead of pressing directly upon the rod *h*, a small lever, *z*, hinged at a fixed point, *y*, may be attached to the end of the rod *h*, as shown in Fig. 5, having on its free end the button *i*, attached convenient to be acted upon with the thumb of the operator. By this arrangement of the rod *h*, or of the button *i*, which operated the rod *h*, and through its connection the damper-bar B, near the thumb-strap D, the operator can easily move the damper-bar B by the thumb of the hand through which the keys are operated, and is thus enabled to increase the sound of any key-note without removing the hand and stopping the playing.

What I claim as my invention, and desire to secure by Letters Patent, is—

In an accordion provided with a second or additional row of reeds covered by a valve or damper adapted to be moved over the same, the controlling device for operating the damper, consisting of the combination of the springs *d d'*, levers *e e'*, cross bar *f*, and rod *h*, with knob *i*, with the damper-bar B, said rod *h* or knob *i* being arranged at or near the thumb-strap D, in the manner and for the purpose substantially as described.

RUDOLF BERGNER.

Witnesses:

OTTO SACK,  
E. RAFFR.