

A. D. B. WOLFF.  
PIANO FRAMES.

No. 174,884.

Patented March 14, 1876.

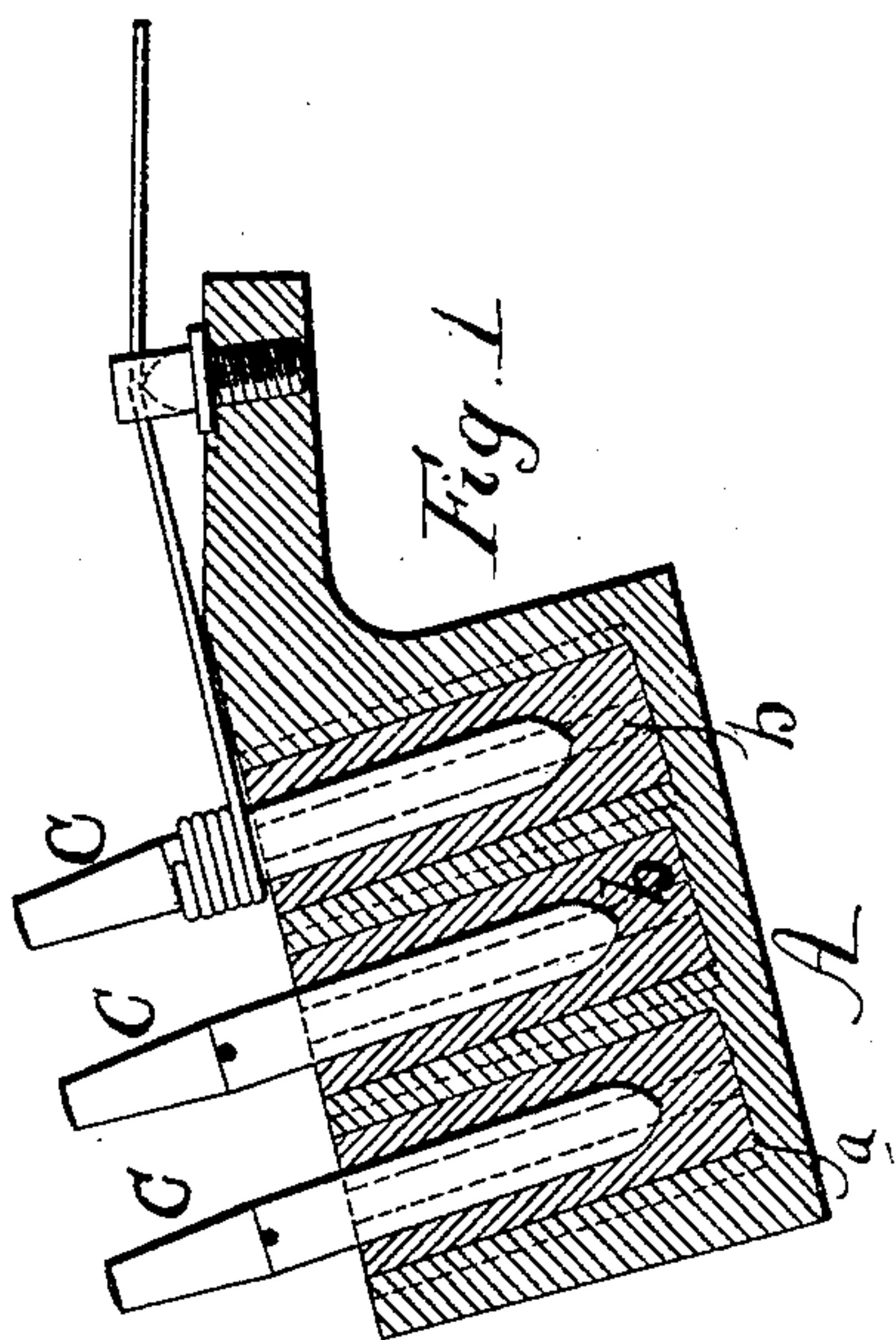


Fig. 1

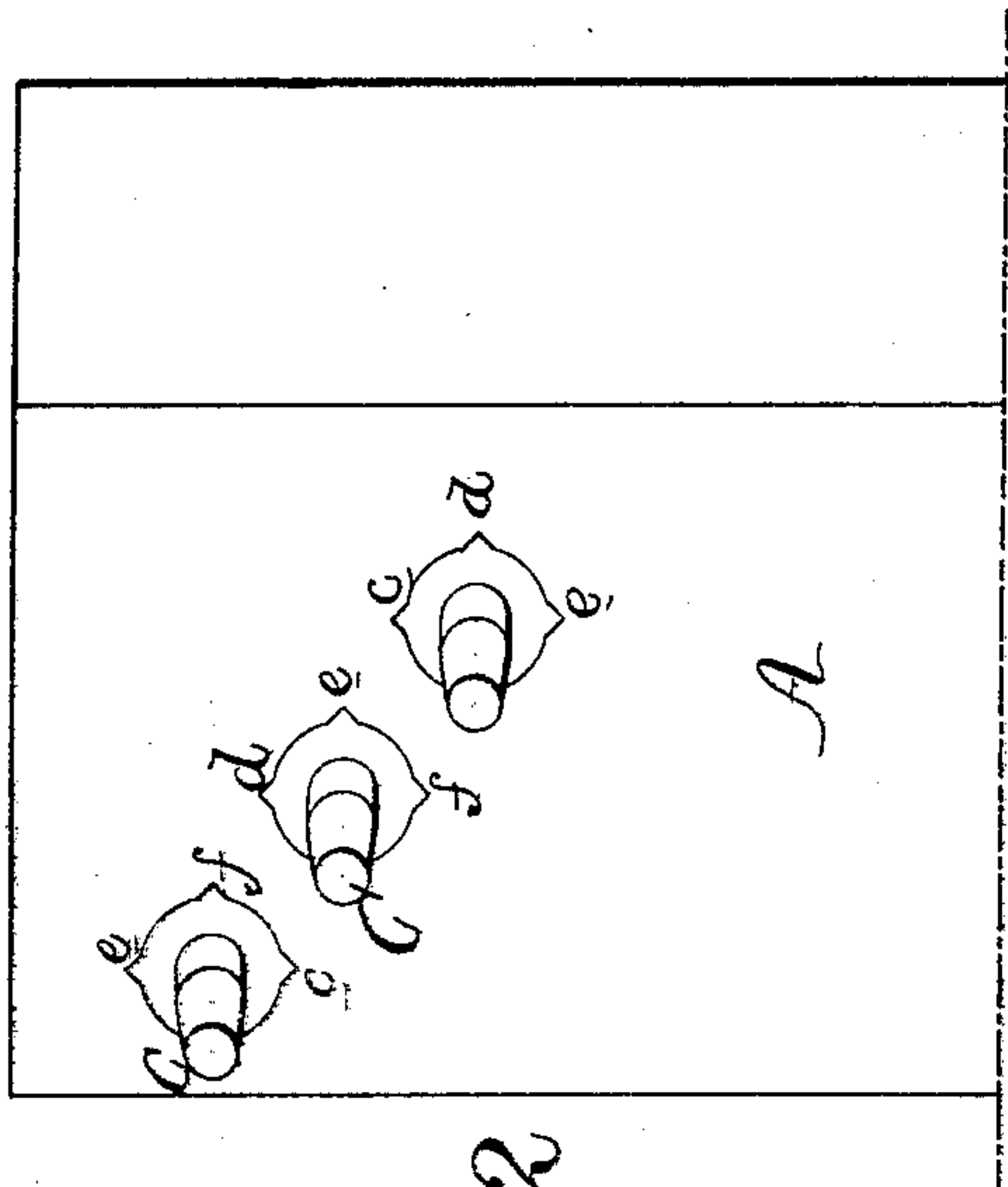


Fig. 2

Fig. 3.

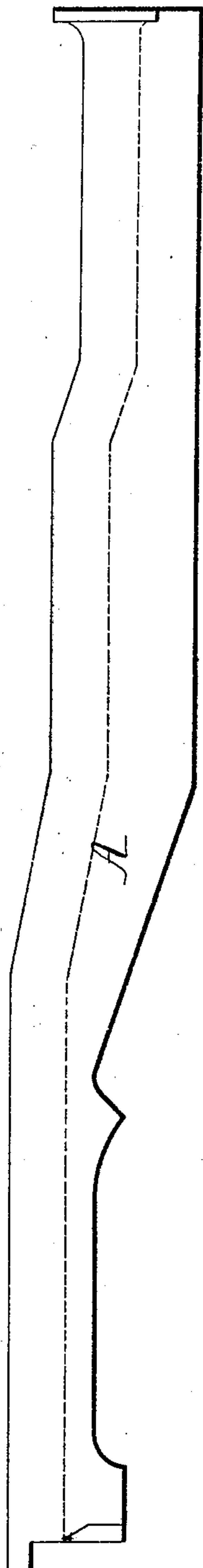
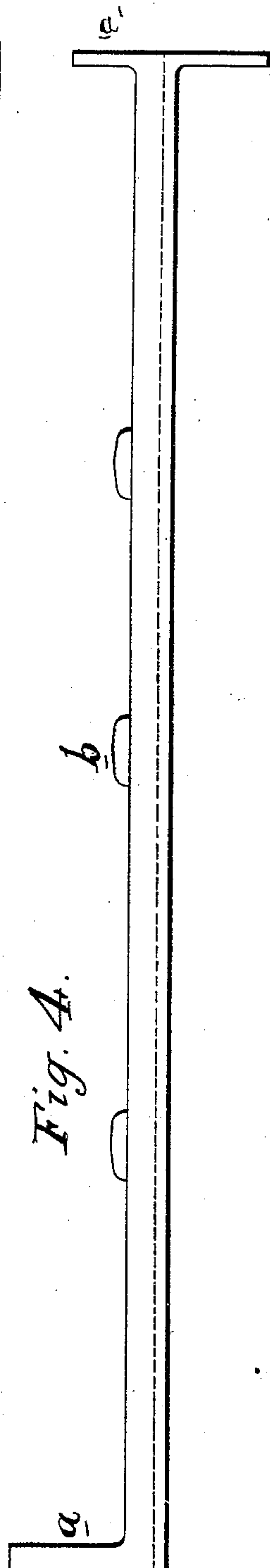


Fig. 4.



Witnesses  
J. H. Skidmore,  
C. L. Nottingham.

Auguste D. B. Wolff  
by his Attorneys  
Howson and Son

# UNITED STATES PATENT OFFICE.

AUGUSTE DÉSIRÉ BERNARD WOLFF, OF PARIS, FRANCE.

## IMPROVEMENT IN PIANO-FRAMES.

Specification forming part of Letters Patent No. 174,884, dated March 14, 1876; application filed December 23, 1875.

*To all whom it may concern :*

Be it known that I, AUGUSTE DÉSIRÉ BERNARD WOLFF, of Paris, France, have invented certain Improvements in Piano-Fortes, of which the following is a specification:

The object of my invention is to so construct the string-frame of a piano that the tuning-pins will be firmly secured, and the tone of the piano consequently maintained; and this object I attain in the manner which I will now proceed to describe, reference being had to the accompanying drawing, in which—

Figure 1 is a transverse section, showing the mode of fastening the tuning pegs or pins; Fig. 2, a corresponding plan; and Figs. 3 and 4, a side view and plan, respectively, of a string-frame for an upright piano.

The frame is made of metal, and in the portion A of this metal frame, at intervals corresponding to the positions the tuning-pins are to occupy, are a number of cylindrical holes, *a*, in which are cut longitudinal grooves *c d e f*, as shown in Fig. 2. Into each of these holes is driven a peg, *b*, of hard wood, of corresponding shape, but slightly larger in diameter, so that it may fit perfectly tight, this peg being prevented from any accidental turn-

ing by the grooves *c d e f*, into which project corresponding ribs on the wood. The surface of the wood being trued, a hole is bored into the center of each peg, as usual, for the reception of the tuning-pin C. In order that the wires may have the proper bearing on the agraffe-pins, the frame itself is bent or inclined, as shown in Fig. 1.

It will be evident that by the above mode of construction the tuning-pins are firmly secured, and not liable to get out of position, and the tones of the wires consequently preserved.

I claim as my invention—

The metal frame A, having openings *a*, grooved longitudinally, and filled with wood, for the reception of the tuning-pins, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

AUGUSTE DÉSIRÉ BERNARD WOLFF.

Witnesses:

ALFRED COINY,  
ROBT. M. HOOPER.