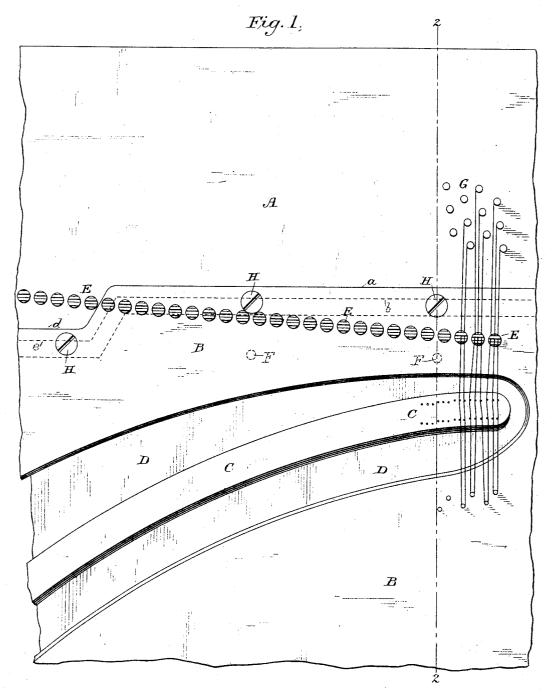
H. BEHNING.

SOUNDING BOARD FOR UPRIGHT PIANOS.

No. 261,523.

Patented July 25, 1882.



WITNESSES

We Whinkle By his Attorney

INVENTOR

Henry Behning,

William HKenyon

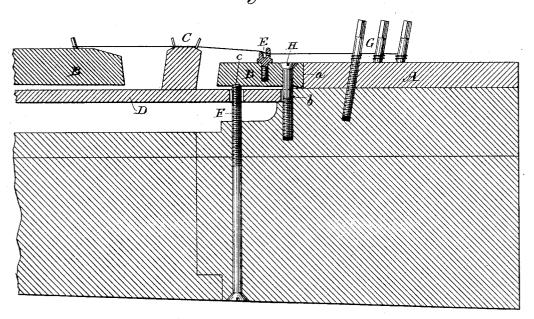
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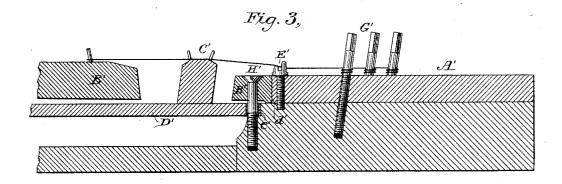
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Fig. 2,





 $WIT \mathcal{N} ESSES$

With a Skinkle By his Attorney Henry Beh Cho W. Breek

INVENTOR

Henry Behning.

United States Patent Office.

HENRY BEHNING, OF NEW YORK, N. Y.

SOUNDING-BOARD FOR UPRIGHT PIANOS.

SPECIFICATION forming part of Letters Patent No. 261,523, dated July 25, 1882.

Application filed April 14, 1882. (No model.)

To all whom it may concern:

Be it known that I, HENRY BEHNING, of New York, in the county and State of New York, have invented a new and useful Im-5 provement in Sounding-Boards for Upright Piano-Fortes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of my invention is to increase 15 the quantity and enrich the quality, more especially of the upper tones, in upright pianofortes; and to that end my invention consists in such an extension of the efficient portions of the sounding-board, especially in the up-20 per scores, and such adaptation of surrounding parts, as are hereinafter described and claimed.

Referring to the accompanying drawings. Figure 1 is a front or plan view of a portion 25 of an instrument to which my invention has been applied in its upper scores. Fig. 2 is a section on the line 22, and Fig. 3 a partial section of an instrument without my invention.

Similar letters of reference indicate like parts in Figs. 1 and 2, and the same letters primed indicate in Fig. 3 the corresponding

parts.

In Figs. 1 and 2, A is the wrest-block or 35 tuning-block, carrying the tuning-pins G. E are the agraffes. B is the metal plate, abutting against the wrest-block along the line a d, and in the usual manner firmly seated on a shoulder of the wrest-block, and secured there-40 to by screws H. B is further preferably supported, near its edge, in those portions of the instrument to which my invention is applied by screws F in the wrest-block, which, passing freely through holes in the sounding-45 board, rest in depressions or seats c on the lower or inner side of the plate B. D is the sounding-board. It abuts against the wrestblock along the line b e, which line, in the portion of the instrument to which my invention 50 is applied—to wit, the line b—is at a substan-

C than are the agraffes E, and which line is preferably as far from the bridge C as possible, and as near to the line a in Fig. 1 as is compatible with the firm seating of the plate 55 B upon the wrest-block. The sounding-board D rests, in the usual manner, upon a shoulder of the wrest-block.

To clearly distinguish what is new, I have introduced Fig. 3, which shows the present 60 arrangement of sounding-board, plate, wrestblock, and agraffes, while Fig. 2, in corresponding section, shows my improvement in the same. The efficient portion of the sounding-board in any instrument is the portion on 65 the side of the bridge C toward the agraffes, the extent of sounding-board on that side of the bridge affecting the richness and quality of the tone.

My improvement consists in substituting 70 for the sounding-board D' of Fig. 3, which terminates at e', the sounding-board D of Figs. 1 and 2, which extends to b, thereby securing in the upper scores nearly double the extent of efficient sounding-board available at pres- 75 ent. This requires that the metal plate B', terminating at d', be enlarged into the plate B, terminating at a, which line a is at any desired position between the line of agraffes E and the line of tuning-pins G. The agraffe E', 80 secured in the wrest-block A', becomes the agraffe E, secured in the plate B. The line b is preferably as far as possible from the bridge C, and is limited in that direction only by the distance b α , required as a seat for the plate 85 B. The wrest-block is cut out to conform with my new sounding-board and plate. A serew, F, is preferably introduced to strengthen the plate B and prevent unpleasant vibrations. My improvement, while not of so much im- 90 portance where the distance C E is great, becomes of the first importance where that distance is small, as in the sections shown in Figs. 2 and 3, and is therefore peculiarly applicable to the upper octaves of upright piano- 95

I do not claim the inventions patented to Wm. Bourne, February 17, 1863, No. 37,717, and to Frederick Pitt, May 30, 1882, No. 258,670.

What I do claim as new, and desire to setially equal or greater distance from the bridge I cure by Letters Patent, is1. In upright piano-fortes, a wrest-block adapted to carry the tuning-pins, a plate adapted to carry the agraffes, and a sounding-board extended beyond the line of agraffes in the plate, in the manner described, all combined substantially as and for the purposes specified.

specified.

2. In upright piano-fortes, a wrest-block adapted to carry the tuning-pins, a plate adapted to carry the agraffes and supported

near its free edge, as shown, and a sounding board extended beyond the line of agraffes in the plate, in the manner described, all combined substantially as and for the purposes specified.

HENRY BEHNING.

Witnesses:
Louis H. Naumann,
MILLER C. EARL.