No. 654,360.

Patented July 24, 1900.

E. SCHOPF.

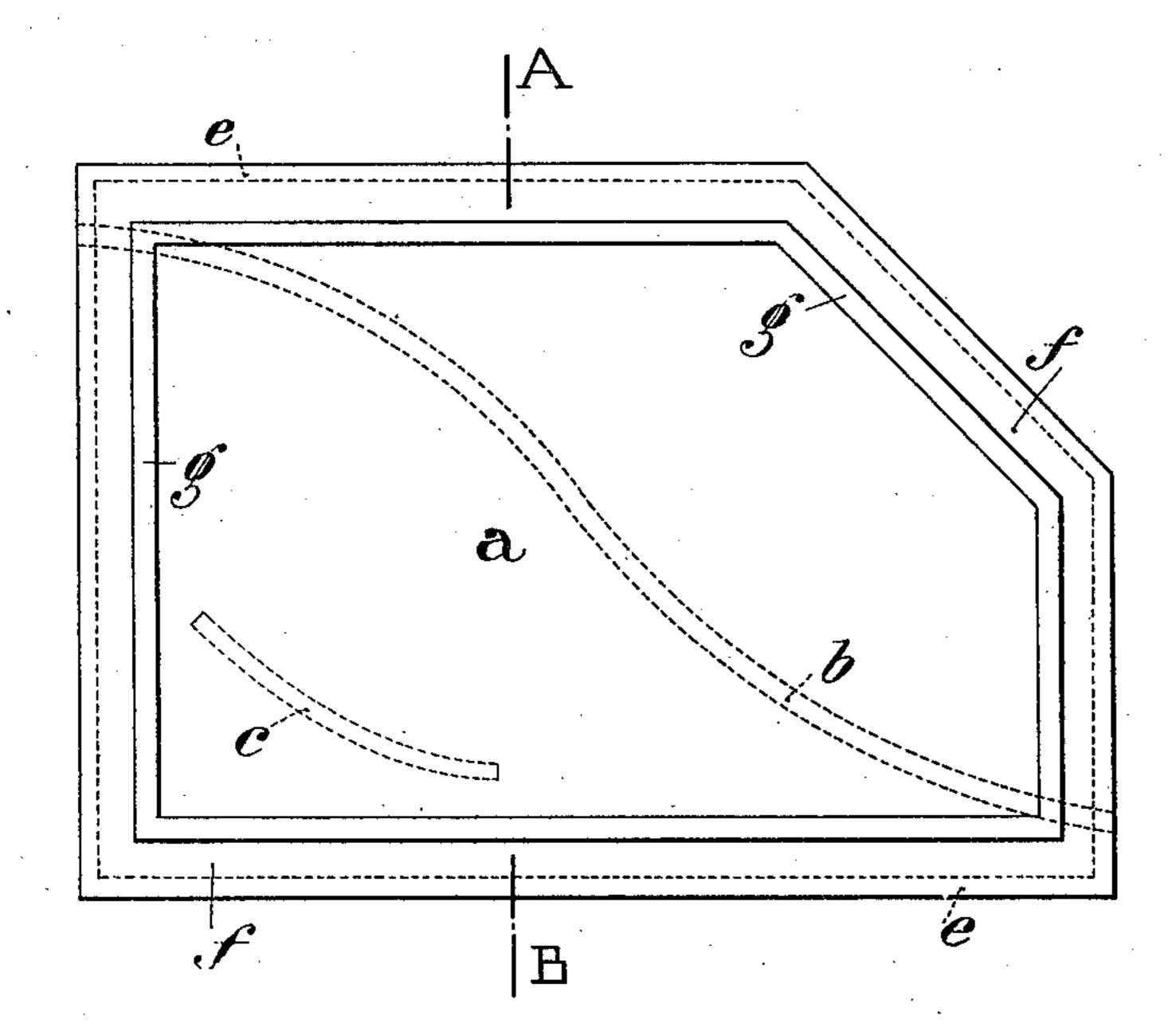
SOUNDING BOARD SUPPORT.

(Application filed Feb. 12, 1900.)

(No Model.)

FIGI

FIGIL



a best

Witnesses. Thursdein. Montey.

Inventor:

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United States Patent Office.

EMIL SCHOPF, OF BERLIN, GERMANY.

SOUNDING-BOARD SUPPORT.

SPECIFICATION forming part of Letters Patent No. 654,360, dated July 24, 1900.

Application filed February 12, 1900. Serial No. 4,934. (No model.)

To all whom it may concern:

Be it known that I, EMIL SCHOPF, pianoforte manufacturer, a subject of the German Emperor, residing at Markusstrasse 18, Berlin, Germany, have invented certain new and useful Improvements in Sounding-Board Supports, of which the following is a specification.

Sounding-boards for musical instruments 10 as generally used rest around their rim on a frame wherewith they are firmly connected. By this firm connection of the sounding-board with a stationary frame the sounding-board around about the edges up to a pretty consid-15 erable distance cannot vibrate and only the middle part of the sounding-board is able to make vibrations of an amplitude necessary to obtain a perfect sound. This disadvantage is especially perceptible in the shorter treble-20 strings of an upright piano or horizontal piano, which lie near to that part of the soundingboard which is close to the supporting-frame. The sound of these strings is not reinforced by the vibrations of the sounding-board in 25 comparison with that of the middle strings, so that the difference between the beauty of the sound of the upper octave of a piano and the middle octaves is thus explicable. In order to do away with these disadvantages, 30 the absolutely stationary fixing of the rim of the sounding-board is avoided in the present

Figure I of the annexed drawings is an un35 der plan view of the sounding-board shown separate from its seat, the seat being omitted in order to make the drawing clearer. Fig. II is a section on the line A B, Fig. I, showing also the seat.

construction, so that the whole sounding-

The real sounding-board a, which can be made of usual sounding-board wood, receives its tension by the two bridges b and c.

To enable the sounding-board to vibrate to the border, the outermost border d of the sounding-board is provided with an edging- 45 fillet e, extending around its circumference and firmly connected on the one side with the sounding-board and on the other side with a wooden plank f, also extending around the circumference of the sounding-board. This 50 wooden plank f is again provided along the edge opposite that by which it is attached to the sounding-board proper with a resting-fillet g, fastened on the support h, by which it is fastened in the instrument. The wooden 55 plank f is made of hard wood, while for the sounding-board proper soft wood is used, as is well-known. The reason is the same as in violins—that is, to enable the sound-waves to rebound on this part f, so that only the 60 real sounding-board a comes into vibratory effect. In this manner the sounding-board is able to swing like a spring of similar crosssection—that is, the sounding-board is able to swing also at its edges because direct fas- 65 tening of the edges is avoided by the use of the intermediate support, consisting of the plank f.

I declare that what I claim is—

The combination with a sounding-board a 70 of a fillet e having one of its faces glued to the under face of the sounding-board at its edge, a hard-wood-plank frame f having the same shape exteriorly as the sounding-board glued at the outer edge of one of its faces to the under face of said fillet e and a fillet e glued to the under face of said plank frame f at the inner edge thereof.

In witness whereof I have signed this specification in the presence of two witnesses.

EMIL SCHOPF.

Witnesses:

WOLDEMAR HAUPT, HENRY HASPER.