C. F. T. STEINWAY.

PIANO SOUND BOARD.

No. 180,671. Patented Aug. 1, 1876.

Fig. 1.

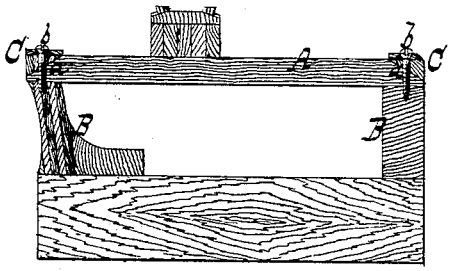
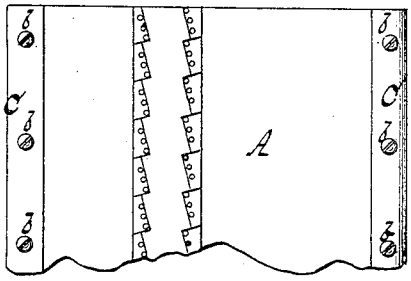


Fig. 2.



Witnesses.
Otto Hufeland.
Robt E. Miller.

Inventor.
Christian Friedrich Theodor Steinway
by
Van Santvoord & Hauff
his attorneys

UNITED STATES PATENT OFFICE.

CHRISTIAN F. T. STEINWAY, OF NEW YORK, N. Y.

IMPROVEMENT IN PIANO SOUND-BOARDS.

Specification forming part of Letters Patent No. **180,671**, dated August 1, 1876; application filed July 22, 1876.

To all whom it may concern:

Be it known that I, CHRISTIAN FRIEDRICK THEODOR STEINWAY, of the city, county, and State of New York, have invented a new and useful Improvement in Sounding-Boards for Piano-Fortes, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 represents a transverse vertical section. Fig. 2 is a plan or top view.

Similar letters indicate corresponding parts.

This invention consists in the combination of a binding-bar with the edge of the sounding-board of a piano-forte, said edge being cut off in an oblique direction, so that the binding-bar forms a solid abutment for the fibers of the sounding-board, and that, by its action, the fullness of the tone, particularly of the treble-strings, is materially increased.

In the drawing, the letter A designates the sounding-board of a piano-forte, which is supported by the standards B B, to which it is firmly secured in the usual manner. The edges *a a* of my sounding-board are cut off in oblique directions, and with these oblique edges are combined binding-bars C C′, which are secured in position by screws *b b*, or by any other suitable means. Said binding-bars are either made of wood or of metal, and their object is to form abutments for the fibers of the sounding-board.

By the vibration of the strings an undulating motion is imparted to the longitudinal fibers of the sounding-board, whereby the tone produced by the vibrating strings is increased.

In piano-fortes as heretofore constructed the edges of the sounding-board are cut off square, so that the ends of its longitudinal fibers are left unsupported, and thereby the effect of the sounding-board is reduced. By cutting off the edges of the sounding-board in an oblique direction, and securing to the same the binding-bars C C′, all the numerous fibers which compose the sounding-board are firmly connected together, each fiber being supported at its ends, and thereby the strength and fullness of the tone, particularly for the high registers, are greatly improved.

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

The combination of a binding-bar, C, with the oblique edge of the sounding-board of a piano-forte, substantially in the manner and for the purpose herein shown and described.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 13th day of July, 1876.

C. F. THEODOR STEINWAY. [L. S.]

Witnesses:
W. HAUFF,
E. F. KASTENHUBER.