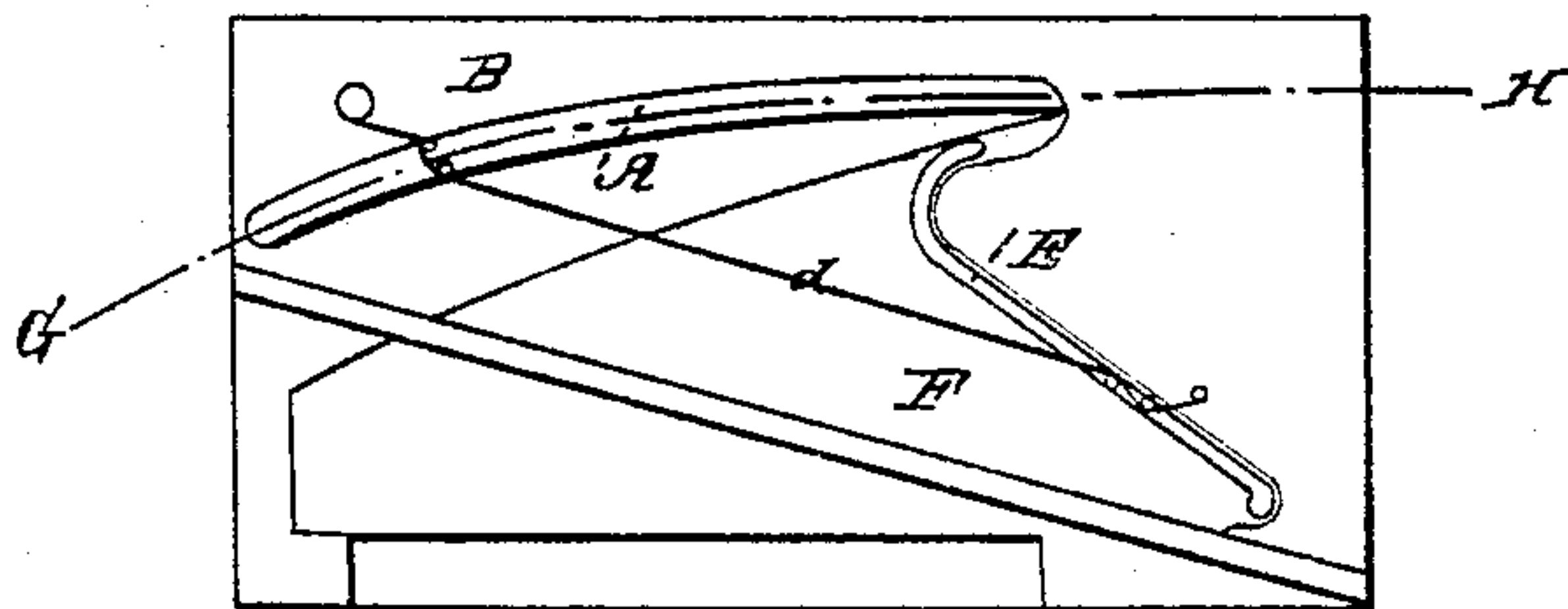
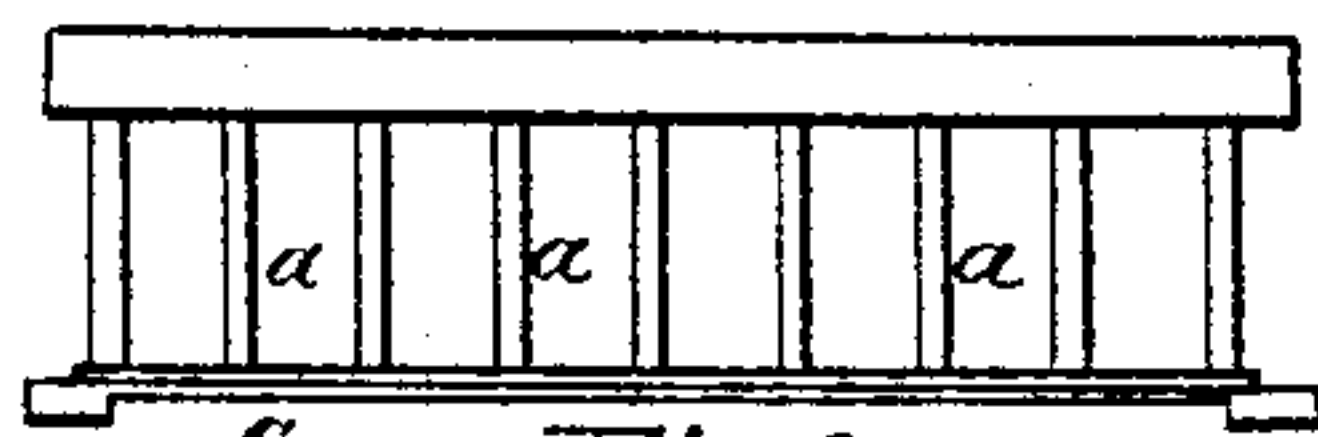


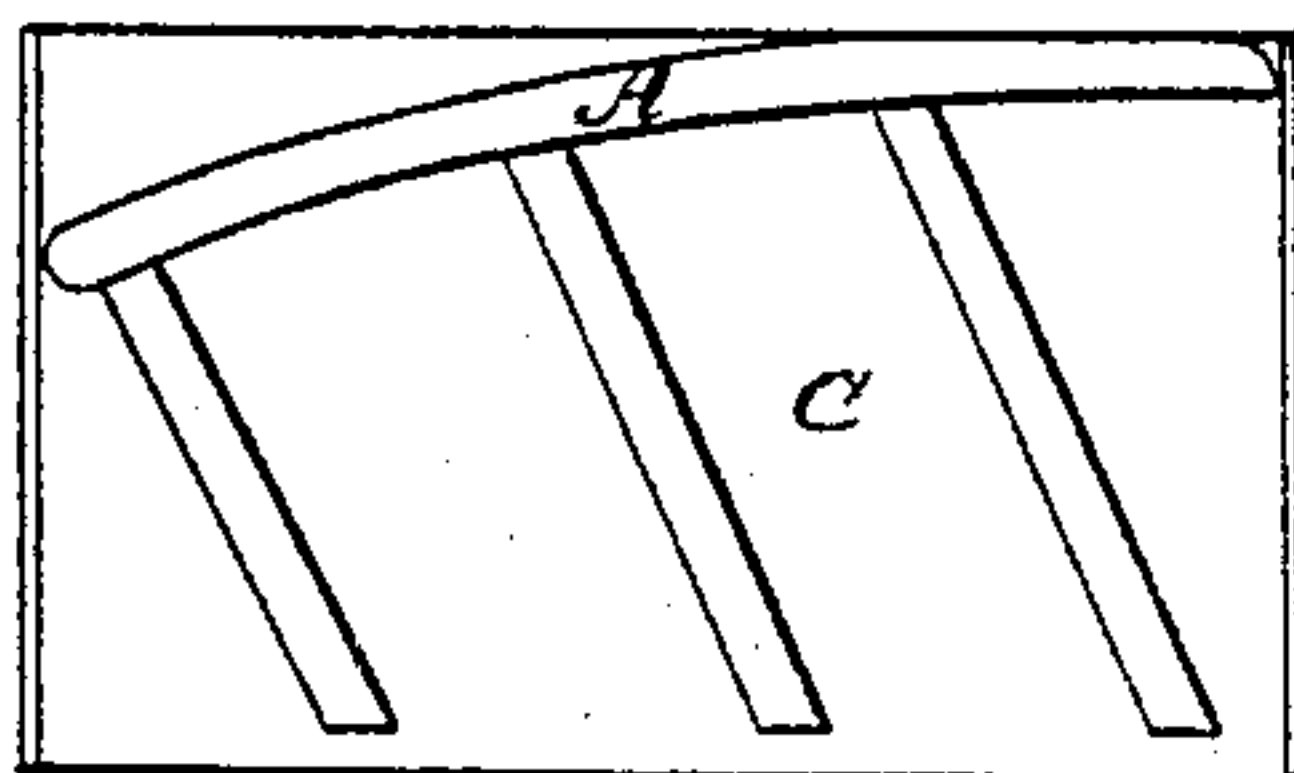
*A. Gunther,*  
*Piano Sounding Board,*  
*N<sup>o</sup> 49,399.* *Patented Aug. 15, 1865.*



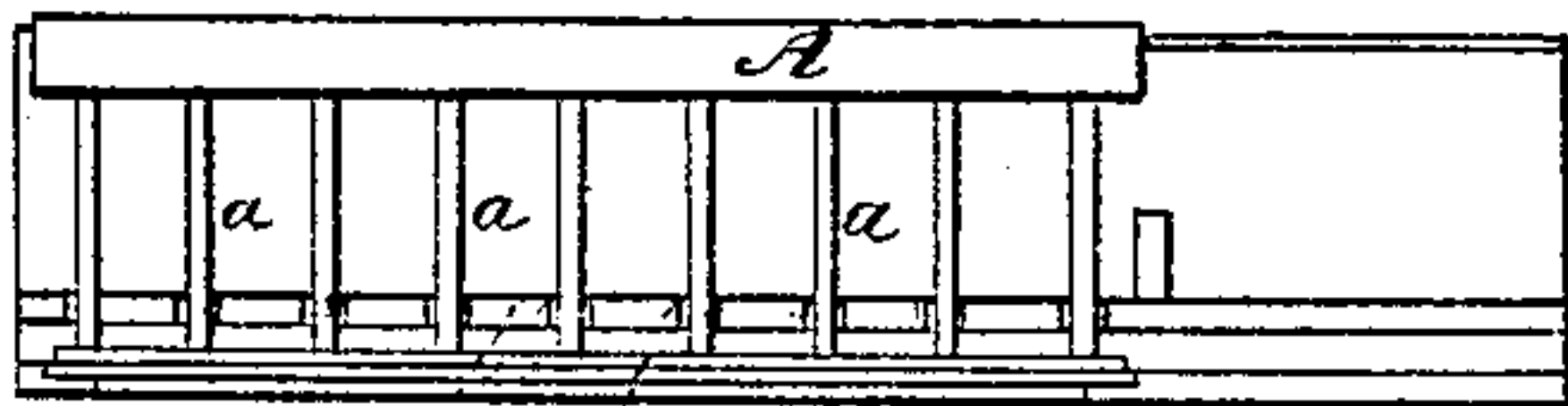
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



*Fig. 4.*

*Witnesses. Francis D. Pastorius,*  
*John Anderson.*

*Inventor.*  
*Anthony Gunther.*

# UNITED STATES PATENT OFFICE.

ANTHONY GUNTHER, OF PHILADELPHIA, PENNSYLVANIA.

## IMPROVEMENT IN PIANOS.

Specification forming part of Letters Patent No. 49,399, dated August 15, 1865.

*To all whom it may concern:*

Be it known that I, ANTHONY GUNTHER, of Saxe-Weimar, Germany, now residing in the city of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and useful Improvement on Pianos; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention consists in using a second vibrating-bridge placed along the pin-block and connecting it with a second sounding-board situated in the bottom of the piano.

In order to enable others to make and use my invention, I will now proceed to describe its construction and operation.

On reference to the accompanying drawings, which form a part of this specification, Figure 1 is a plan view. Fig. 2 is an elevation of the second vibrating-bridge and sounding-board, with the posts. Fig. 3 is a plan view of the same; and Fig. 4 is a sectional view through the line G H, Fig. 1.

By the present method of making pianos the vibrating strings rest upon the solid pin-block B, and upon the vibrating-bridge E of the ordinary sounding-board F, I introduce a second vibrating-bridge, A, placed along the pin-block B, and connect it by means of posts *a a a* with a second sounding-board, C, situated

in the bottom D of the piano, the strings *d* resting upon two vibrating-bridges—the vibrating-bridge E attached to the ordinary sounding-board F and my invented second vibrating-bridge, A. The vibrating strings *d* communicate their vibration not only to the ordinary vibrating-bridge E and its corresponding sounding-board F, but also to my second vibrating-bridge, A, and its corresponding sounding-board C, strengthening the power and lengthening the duration of the tone.

I do not confine myself to the use of the posts *a a a* for connecting the vibrating-bridge A with the second sounding-board, C, but allow myself to use any solid connection.

I do not claim the second sounding-board, knowing that it has been used before, but claim it as used in combination with the second vibrating-bridge.

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

1. The second vibrating-bridge, A, as herein shown and described.
2. The combination of the vibrating-bridge A with the second sounding-board, C, as herein shown and described.

ANTHONY GUNTHER.

Witnesses:

FRANCIS D. PASTORIUS,  
J. P. DELANEY.