

G. Steck,
Piano Frame.

No. 106227.

Patented Aug. 9. 1870.

Fig. II.

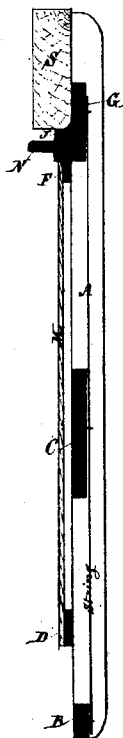
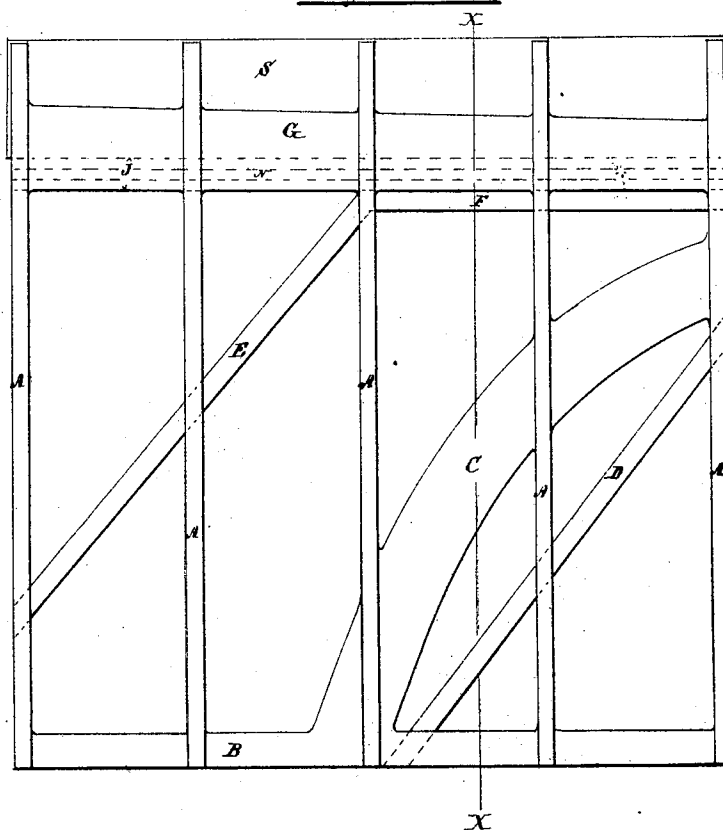


Figure I.



Witnesses.

Henry E. Puder
J. Brown.

Inventor.

George Steck

United States Patent Office.

GEORGE STECK, OF NEW YORK, N. Y.

Letters Patent No. 106,227, dated August 9, 1870.

IMPROVEMENT IN IRON FRAMES FOR PIANOS.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, GEORGE STECK, of New York, in the county of New York and State of New York, have invented an Improved Iron Frame for Upright Piano-Fortes; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing making part of this specification,

Figure 1 being a front elevation of the iron frame of an upright piano-forte, constructed with my improvement.

Figure 2, a transverse vertical section thereof, in a plane indicated by the line *x x*, fig. 1.

Like letters designate corresponding parts in both figures.

Letters A A represent the upright braces of the frame.

B, the bottom cross-bar or rail thereof.

G, the top bar or rail.

C, the curved brace.

D E F, projecting ribs on the back side of the frame, to which the sounding-board M is attached.

S, the rest-plank.

The first feature of my invention consists in the construction and arrangement of the braces A A, with which the strings run parallel, in such a manner that one-half of the width or depth thereof, nearly or exactly, shall project outward, beyond the front surface of the parts B C G, over which the strings are stretched, or beyond the plane of the strings, and the other half of their width shall sink behind or beneath

said surface or plane, as shown in fig. 2, whereby the tension of the strings is caused to be midway of the braces, and has no tendency to bend or warp the frame either one way or the other.

By this construction I obtain a frame that will not warp nor bend, which yet is very light and simple of construction, and which needs no back-stays, frame, nor braces, as required by the usual modes of construction.

The second feature of my invention consists in a horizontal or transverse rib, N, formed on the back of the upper cross-bar or rail G of the frame, situated under the rest-plank S, and projecting outward, beneath and near the same, substantially as represented. This rib strengthens the frame laterally, and prevents transverse warping.

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

The construction of the iron frame of piano-fortes with braces A A A A A, so formed and arranged that the strain of the strings shall have no tendency to bend or warp them in either direction, substantially as herein specified.

Also, in combination with the foregoing, the transverse rib N, projecting from the back of the bar or rail G, substantially as and for the purpose herein set forth.

GEORGE STECK.

Witnesses:

HENRY E. ROEDER,
J. S. BROWN.