

C. Kurtzmann,

Piano.

No. 103345.

Patented May 24, 1870

Fig. 1.

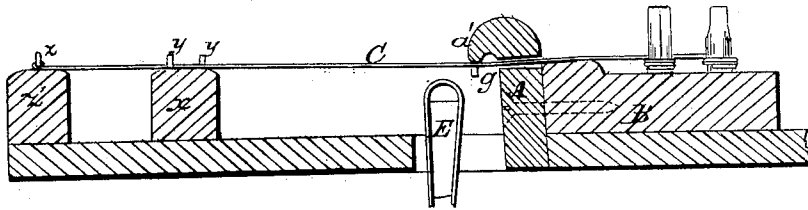
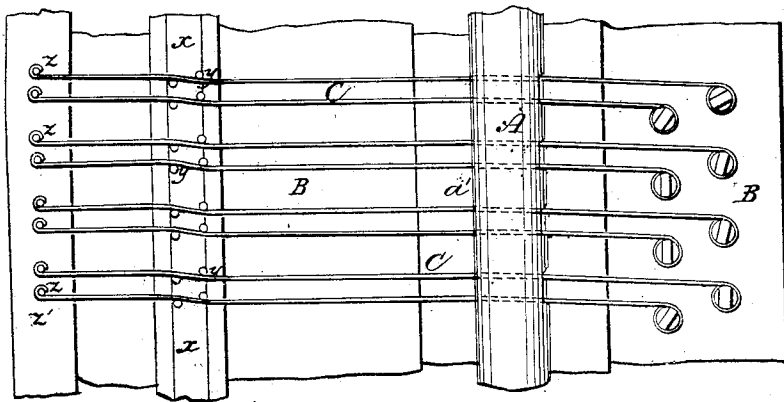


Fig. 2.



Witnesses

Inventor

Fred. W. Scott.

Christian Kurtzmann

B. Schmuschle

United States Patent Office.

CHRISTIAN KURTZMANN, OF BUFFALO, NEW YORK.

Letters Patent No. 103,345, dated May 24, 1870.

IMPROVEMENT IN 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, CHRISTIAN KURTZMANN, of the city of Buffalo, county of Erie and State of New York, have invented a certain new and useful Improvement in Pianos; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings making a part of this specification, in which—

Figure I is a transverse vertical section.

Figure II is a top plan view.

The nature of this invention consists in the peculiar construction and application of the agraffe or bridge-plate of a piano, by which the bearing for the strings is formed upon the under side of an overhanging continuous bar, which is part of the bridge-plate, and is located and holds the strings at a point opposite to where the hammer strikes them, the lower end of said agraffe or bridge resting on the sounding-board.

Letters of like name and kind refer to like parts in each of the figures.

In the accompanying drawings—

A represents my improved agraffe or bridge-plate, which is connected to the frame B by screws or secured in any convenient manner.

C represents the strings, and

E part of a hammer, showing its position in relation to the agraffe or bridge-plate A.

The strings rest upon and bear upwardly against the extreme edge of the bar *a'*, and then pass through

horizontal openings in the main body *A* to their point of connection.

Pins may be placed upon the under side of the bar *a'*, between the strings, and the lower edge of the bridge is made to rest on the sounding-board. This construction and arrangement of the agraffe or bridge, with reference to the sounding-board, constitute the principal feature of my invention.

x is a cleat connected with the sounding-board of the piano, on the upper surface of which are arranged the pins *y y*, between which the strings or wires pass.

The strings pass over the top of the cleat *x*, between the pins *y y*, and are attached to pins *z z* on the cleat *z'*.

I am aware of the patent of G. H. Walscamp, July 21, 1857, No. 17,838; also of the device of Ernst Gabler, rejected January 9, 1867. These I do not claim, my device being an improvement on the same.

Having thus fully described my invention,

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

The metallic bar *A*, having the overhanging portion *a'*, forming a bridge in combination with the pins *y y*, cleat *x*, provided with pins *y y*, and cleat *z'*, having pins *z z*, to which the strings are attached, all constructed, arranged, and operated as set forth.

CHRISTIAN KURTZMANN.

Witnesses:

FRED. W. SCOTT,
B. H. MUEHLE.