

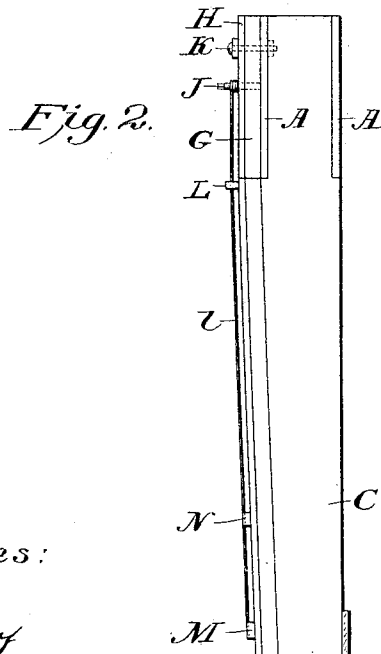
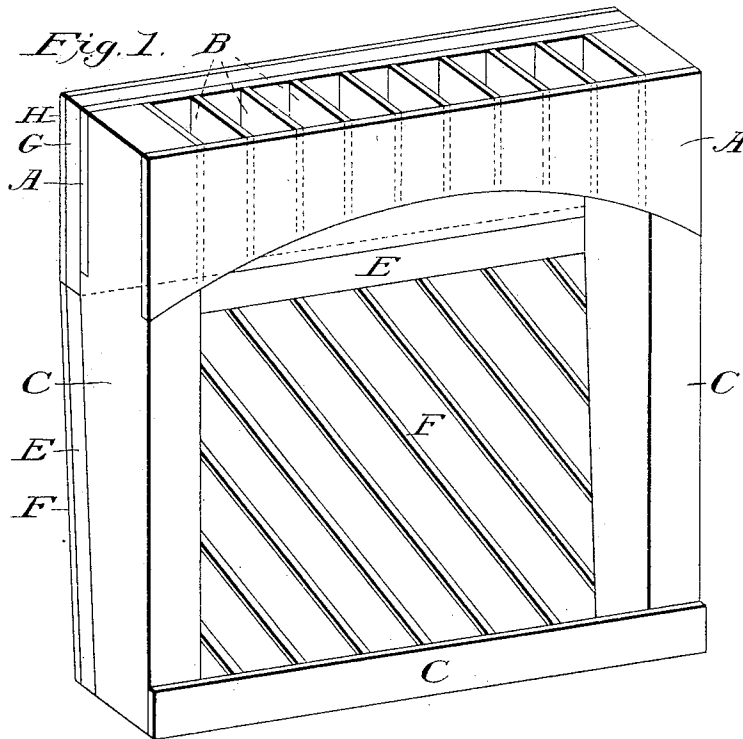
(No Model.)

J. B. MITCHEL.

ARCH PLATE FRAME FOR UPRIGHT PIANOS.

No. 536,578.

Patented Mar. 26, 1895.



Witnesses:

H. M. Kay
Geo. Rowe

Inventor:

John B. Mitchel

UNITED STATES PATENT OFFICE.

JOHN B. MITCHEL, OF BOWMANVILLE, CANADA.

ARCH-PLATE FRAME FOR UPRIGHT PIANOS.

SPECIFICATION forming part of Letters Patent No. 536,578, dated March 26, 1895.

Application filed July 24, 1893. Renewed February 9, 1895. Serial No. 537,755. (No model.) Patented in Canada October 11, 1893, No. 44,442.

To all whom it may concern:

Be it known that I, JOHN B. MITCHEL, residing at the town of Bowmanville, county of Durham, in the Province of Ontario, Canada, have invented certain new and useful Improvements in an Arch-Plate Frame for Upright Pianos, (for which I have received Letters Patent in the Dominion of Canada, dated October 11, 1893, No. 44,442;) and I do hereby declare that the following is a full, clear, and exact description of the same, reference being made to the accompanying drawings, in which—

Figure 1 is a perspective from the rear of same, showing the plate frame and sounding board attached, and not having the heavy wood posts usually found in upright pianos, and having a hollow chamber between the sounding board and back of case which permits of a full, free and independent vibration of the sounding board. Fig. 2 is a side elevation.

The plate frame may be of any approved size or design, either straight or arched.

"A" represents the two arched plates of iron connected together by the iron ribs marked by the letter "B."

"C" represents the heavy posts supporting

the iron frame by running between the plates at each end of the plate.

"E" is the maple rim that the sounding board "F" rests on.

"G" shows an end view of wrest plank that the tuning pin "J" is screwed into.

"I" represents the piano string which passes through the agraffe "L" over the bridge "N" and on to the plate pin "M."

"H" represents the piano plate which is bolted to the arched plate by the bolt marked "K."

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

1. The arch plates marked "A" and connected together by the ribs "B" and supported at each end by the posts "C."

2. The combination of the arched plates "A," ribs "B," posts "C" and rail "E" connected to the piano plate "H" by the bolt "K" and wrest plank "G" substantially as and for the purpose hereinbefore set forth.

Bowmanville, July 4, 1893.

JOHN B. MITCHEL.

In presence of—

GEO. FARWELL,
W. T. ALLEN.