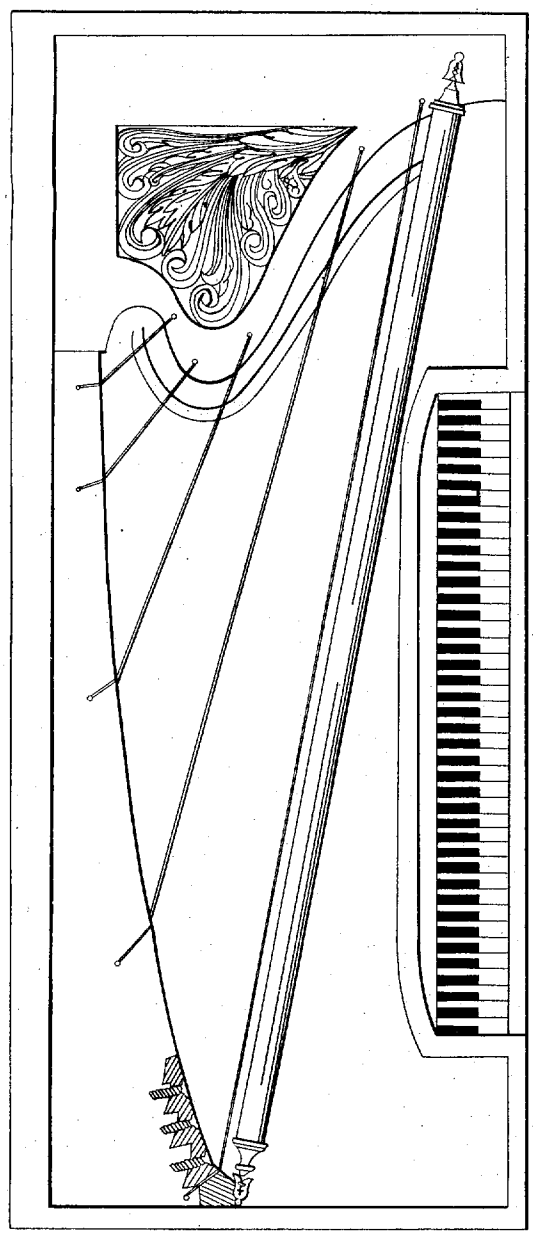
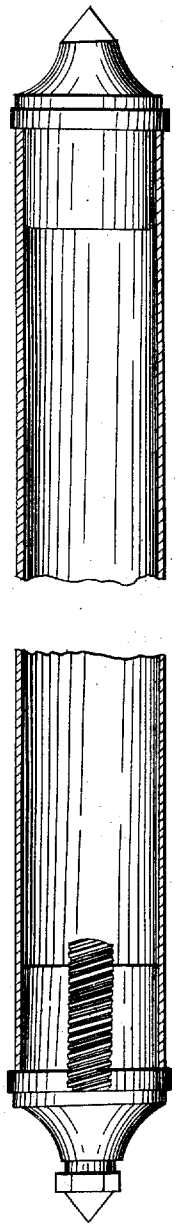
8953X

T. Loud,

Piano Frame,

Patented July 7, 1835.





AM. PHOTO-LITHO. CO. N.Y. (OSBORNE'S PROCESS)

8953X July 7. 1835 1/3

Thomas Loud Philadelphia Pennsylvania

Letters Patent

The schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said Thomas Loud himself of his improvement in the compensating tubes of Piano Fortes

To all whom it may concern. Be it known that I Thomas Loud of the City of Philadelphia in the State of Pennsylvania have invented an improvement in the mode of constructing and applying a compensation tube or tubes to Piano Fortes, and that the following is a full and exact description thereof. It is known to Piano Forte makers, that what are called compensation tubes are applied to Piano Fortes, some years since in London. The compensation tubes are applied for the purpose of resisting the strain of the strings by expansion the blocks to which these ends are attached and also by their expansion contraction to compensate that of the strings resulting from change of temperature. The tubes in that English instrument are made with flat ends which rested against metal plates firmly attached to the end blocks of the Piano Forte. from the manner in which they were constructed and feared they were liable to spring if unsupported. and to prevent this bars of wood are placed crosswise in contact with them in order to sustain them. by which arrangement the reduction of the instrument was in some degree checked and the tone injured. the improvement I generally use but one compensation tube. I do not intend however to limit myself in this particular. but to use two or more should I find it advantageous to do so. my claim to improvement not being dependent upon the number of tubes. but upon the manner in which they are constructed and supported the strain— When one tube only is used it must be made larger than when two or more are employed. I shall describe but one, as a competent workman will be at no loss in employing a greater number upon the same principles

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I take a tube of iron which may be about one sixteenth of an inch thick and an inch and a half in diameter and either brighten and polish it or cover it with a thin tube of sheet brass or other metal drawn upon it on each end of the tube I fix a cap usually of iron and having projecting points of iron or steel in them centres. One of these points is upon the projecting head of a screw let into the cap. These points pass into countersunk holes in ornamental cast iron blocks one of which is usually cast in one piece with the thin metallic plate at one end and the other screwed firmly to the block containing the rest pins at the opposite end. The particular manner of fixing them will depend upon the construction of the Piano Forte and upon the judgment of the workman What I claim as my invention and wish to secure by Letters Patent is the employment of points or centres to sustain the pressure in compensating tubes for Piano Fortes whether constructed precisely in the manner herein set forth or in any other producing the same result by analogous means.

Witnesses
F.C. Bramdridge
Thos. C Sewell

Thomas Sewell

(Patented 7 July 1835) (385 Words)

(Drawing)