(12) **United States Patent**
Pettinos

(10) **Patent No.: X5390**
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(54) **REEDING, & FLUTING, STRAIGHT & SPIRAL**

(76) Inventor: **Peter Pettinos**

Peter Pettinos of 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 Peter Pettinos himself of his improvement—called the Coomanometro.

To all persons to whom these presents shall come,
Be it known that I Peter Pettinos of the City of Philadelphia in the State of Pennsylvania, have invented a new and useful improvement in the coomanometro, or instrument for tuning Piano Forte and other musical instruments, the following is a full and exact description of the construction and operation of the said Machine, or instrument as invented & improved by me & an explanation of the drawing of the same hereto annexed

No. 1 A solid brass head in the shape of a flat knob with a screw cut[illegible] cutter in a brass moveable Oblong square block, (of No 2) and to which the top spring is affixed and by screwing or unscrewing the above mentioned brass head the Coomanometro, may be brought to the exact temperature of the instrument intended to be tuned

No 3, Is a sliding bridge on which is a brass key of No 4 under which a spring is placed & which terminates in the shape of a hook, which articulates this said bridge at pleasure (by pressing slightly on the spring) into the different degrees of the brass scale.

No. 5. Is a brass scale fixed with brass screws on the handle.

No. 6. The handle. This is seventeen inches and an half in length, one inch & an half, in width seven eighths of an inch in thickness the upper extremity of which handle expands about half an inch in front where which No 2 acts,

No. 7 the body, this is fifteen inches and seven eighths of an inch long five inches and a quarter wide & two inches deep—

No. 8. The sounding board on the lower part of which is a pin to which the strung is affixed No. 9. No. 10 The permanent bridge over which

the string is distinctness. No 11. A square perforation thro which the hammer strikes the string in the same manner as an upright Piano Forte with this difference, that the action of the latter is generally placed outside and the former inside of the body of the Cromamometro

No 12. The key of the instrument by touching which the hammer acts, at once upon the string, producing the proper tone by which we are to be guided in the tuning of instruments. ——

What I claim as new and as my own invention or discovery in the above described machine or instrument & for which I ask an exclusive privilege, is what is described in the foregoing Specification, as No 1 viz. a solid brass head in the shape of a flat knob which enters in a brass moveable oblong square block, to which the string is affixed & by screwing or unscrewing which the Cromamometro may be brought to the exact temperature of the instrument intended to be tuned.

The utility of this improvement consists in the facility ease & correctness by which a single individual may tune a Piano or other instrument. The cromamometro is placed on the Piano, & with one hand the person strikes simultaneously the key of the Cromamometro, & the Piano at the same time regulating the tone by means of the screw, or knob at the top. until the proper temperature is ascertained, the moveable bridge is then moved along the desk to each note in succession giving its proper tone without any further alteration of the string, when this is performed it remains only to tune the remaining keys by octaves, by the old instrument one individual could not strike the Piano & Cromamometro, at the same time he regulated the tone of the latter, thus the simultaneous tones of both could not be so easily ascertained.

Witnesses
Jno R. Rodgers
Robt. Randall,

Peter Pollinos

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