

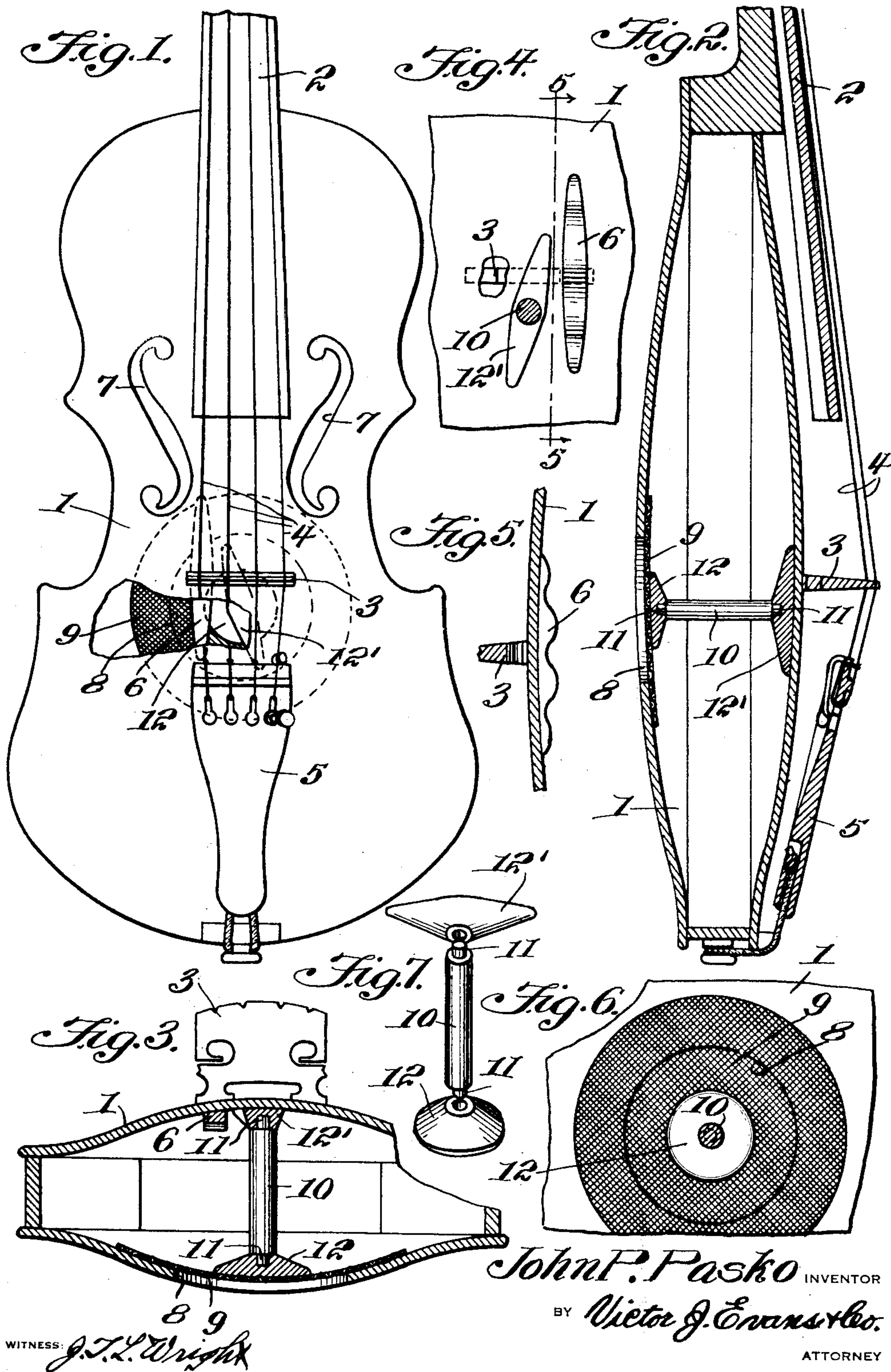
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TONE MODIFIER

Filed Sept. 2, 1932





## UNITED STATES PATENT OFFICE

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## TONE MODIFIER

Application filed September 2, 1932. Serial No. 631,557.

This invention relates to violins, and has for the primary object the provision of means for improving the sound qualities and rendering the tones clearer and stronger so that the violin when first constructed will produce tones equal to the tones of a violin which has been aged and broken in for a number of years.

With these and other objects in view this invention consists in certain novel features of construction, combination and arrangement of parts to be hereinafter more fully described and claimed.

For a complete understanding of my invention, reference is to be had to the following description and accompanying drawing, in which

Figure 1 is a fragmentary plan view illustrating a violin in accordance with my invention.

Figure 2 is a fragmentary sectional view illustrating the same and showing the mounting of the sound post within the sound box of a violin.

Figure 3 is a transverse sectional view illustrating the same.

Figure 4 is a fragmentary sectional view showing a reinforcing strip for the top wall of the sound box and the association of the head of the sound post relative thereto.

Figure 5 is a detail sectional view taken on the line 5—5 of Figure 4.

Figure 6 is a plan view illustrating the fabric support for the sound post.

Figure 7 is a perspective view illustrating the sound post.

Referring in detail to the drawing, the numeral 1 indicates a sound box of a violin having mounted thereon the usual finger board 2, bridge 3 for supporting the strings 4 on the top wall of the sound box, the strings being carried by the finger board and the usual anchoring piece 5 connected to the end of the sound box. The bridge 3 is adjustable toward and from the finger board in the usual manner for varying the tones and secured to the inner face of the top wall of the sound box is a corrugated reinforcing strip 6 for the purpose of strengthening the top wall of the sound box where engaged by the

bridge 3 and is arranged to extend parallel with the bass strings. The top wall of the sound box is provided with the usual sound slots 7 in any desired scroll form. However, they are located at opposite sides of the finger board and away from that portion of the top wall engaged by the bridge 3 so as not to weaken the top wall.

The bottom wall of the sound box directly under the bridge 3 is provided with an opening 8 over which is secured fabric 9 suitably treated to render the fabric with a certain amount of rigidity. The fabric is arranged on the interior of the sound box and is exposed through the opening 8 and forms a support for one end of a sound post 10. Each end of the sound post is reduced to form an attaching extension 11. The extension 11 at one end of the post 10 is received in a socket formed in a pedestal 12 resting upon the fabric, while the other extension 11 is received in a socket of a head 12' engaging the top wall of the sound box under the bridge 3 and arranged at an angle to the strip 6, as shown in Figure 1. By adjusting the inclination of the head 12' the quality and volume of the tone of the violin may be varied. Also by adjusting the bridge 3 the tone may be rendered louder or softer as desired.

A violin constructed in accordance with the foregoing will produce tones equal in quality to tones produced by violins which have been aged or broken in over a long period of time. It is also to be noted that the fabric 9 forms a yieldable seat for the sound post, allowing the post to readily transmit to the sound box vibrations received from the bridge 3 to the strings.

While I have shown and described the preferred embodiment of my invention, it will be understood that minor changes in construction, combination and arrangement of parts may be made without departing from the spirit and scope of my invention, as claimed.

Having described the invention, I claim:

1. A violin including a sound box carrying a finger board having strings connected to the sound box and supported by a bridge, said sound box having an opening in its bot-



tom wall arranged in alinement with the bridge, fabric closing the opening, and a sound post supported between the fabric and the top wall of the sound box.

5 2. A violin including a sound box carrying a finger board having strings connected to the sound box and supported by a bridge, said sound box having an opening in its bottom wall arranged in alinement with the  
10 bridge, fabric closing the opening, a sound post in the sound box, a pedestal connected to the sound post and engaging the fabric and a head carried by the sound post and engageable with the top wall of the sound  
15 box.

3. A violin including a sound box carrying a finger board having strings connected to the sound box and supported by a bridge, said sound box having an opening in its  
20 bottom wall arranged in alinement with the bridge, fabric closing the opening, a sound post in the sound box, a pedestal connected to the sound post and engaging the fabric, a head carried by the post and engageable  
25 with the top wall of the sound box and adjustable relative thereto and the bridge.

4. A violin including a sound box carrying a finger board having strings connected to the sound box and supported by a bridge, said sound box having an opening in its bottom wall arranged in alinement with the  
30 bridge, fabric closing the opening, a sound post in the sound box, a pedestal connected to the sound post and engaging the fabric, a head carried by the post and engageable with the top wall of the sound box and adjustable relative to the bridge, and a corrugated strip secured to the inner face of the top wall of the sound box with the head arranged  
40 at an angle thereto and said strip extending parallel with certain strings and underlying the bridge.

5. A violin including a sound box carrying a finger board having strings connected  
45 to the sound box and supported by a bridge, said sound box having an opening in its bottom wall arranged in alinement with the bridge, fabric closing the opening, a sound post in the sound box, a pedestal connected  
50 to the sound post and engaging the fabric, a head carried by the post and engageable with the top wall of the sound box and adjustable relative to the bridge, a corrugated strip secured to the inner face of the top wall  
55 of the sound box with the head arranged at an angle thereto and said strip extending parallel with certain strings and underlying the bridge, said sound box having sound openings in its top wall arranged at opposite  
60 sides of the finger board and spaced from the bridge.

6. A violin including a sound box, carrying a finger board supporting strings and a bridge for said strings engageable with the  
65 top wall of the sound box, said sound box

having an opening in the bottom wall in alinement with the bridge, a fabric closing the opening and having included in the body of the fabric a substance to increase the rigidity thereof and a sound post engaging the fabric and the top wall of the sound box.

In testimony whereof I affix my signature.

JOHN P. PASKO.

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