

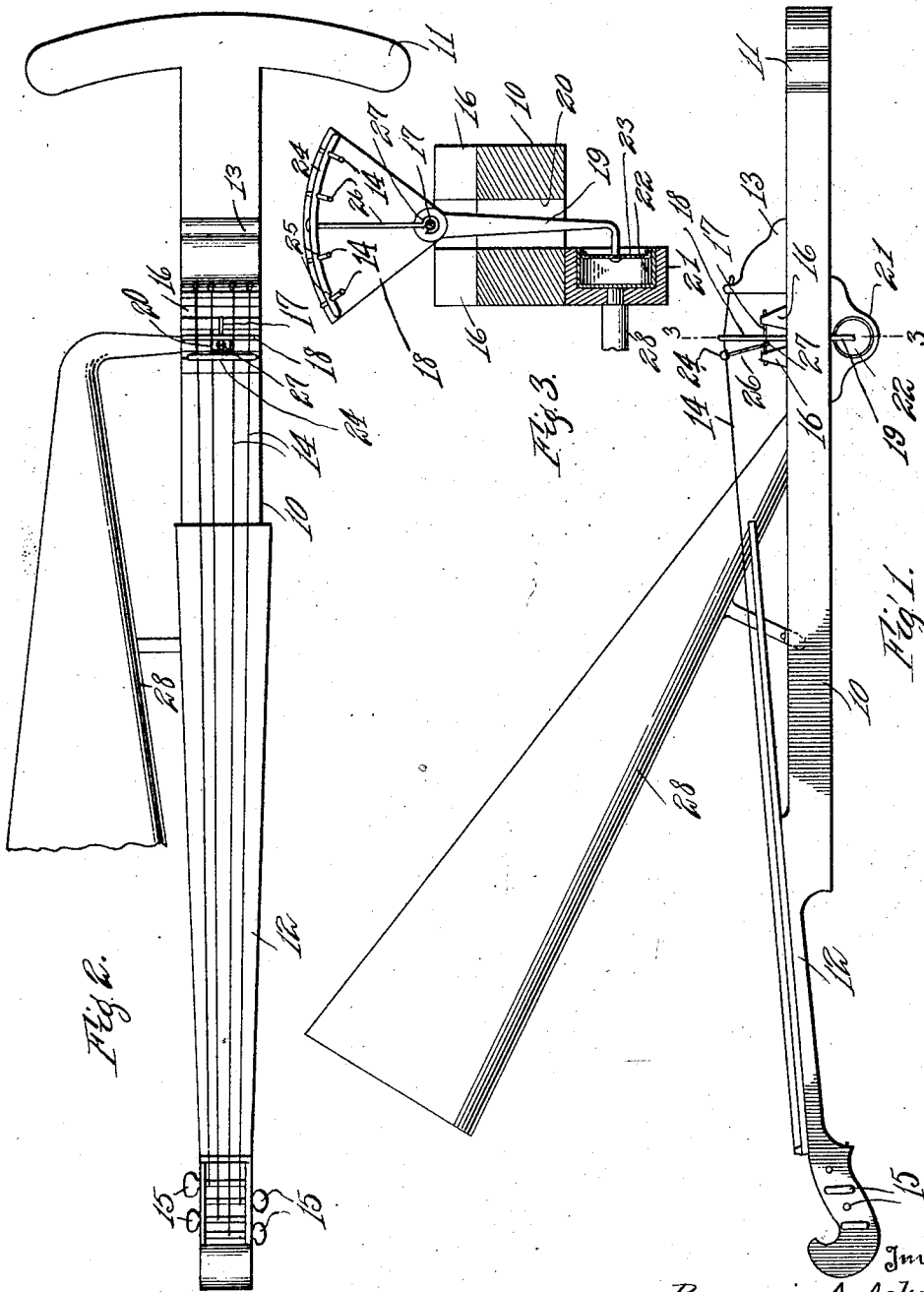
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MUSICAL INSTRUMENT

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## UNITED STATES PATENT OFFICE.

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## MUSICAL INSTRUMENT.

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This invention relates to new and useful improvements in musical instruments, and particularly to instruments of the violin type.

5 One object of the invention is to provide an instrument of this character which is equipped with a sound amplifying means whereby to increase the volume of the instrument, without the necessity of providing  
10 a hollow resonant body.

Another object is to provide an attachment arranged to contact with the strings, slightly in advance of the bridge of the instrument, for the purpose of forcing all  
15 of the strings to vibrate, when one string is vibrated by a bow, to render the rocking action of the bridge more effective and certain.

Other objects and advantages will be apparent from the following description when taken in connection with the accompanying drawing.

In the drawing:

Figure 1 is a side elevation of a musical  
25 instrument made in accordance with the present invention.

Figure 2 is a top plan view of the same.

Figure 3 is an enlarged vertical transverse sectional view on the line 3—3 of Figure 2.

30 Referring particularly to the accompanying drawing, 10 represents the elongated body of the instrument, which has the transverse chin rest portion 11, on one end, and the regular violin neck and fingerboard 12  
35 on the other end. On the upper side of the body, inwardly of the chin rest portion, is the tail-piece 13, to which the strings 14 are attached, the other end of said strings being properly wound on the tuning pegs 15.  
40 Mounted on the body, in advance of the tail-piece 13, are the parallel spaced blocks 16, and properly supported by the upper ends of the blocks is a pivot pin or shaft 17, on which is mounted the lower tapered end of  
45 the bridge 18, said bridge having a downwardly extending arm, formed integrally therewith, as shown at 19, which is disposed through a vertical opening 20, formed in the instrument body, directly below the space  
50 between the blocks 16. Secured to the lower face of the body, and depending below the body, directly beneath the opening 20, is a bracket 21 in which is mounted a sound reproducing means 22, similar to that used in  
55 phonographs. The strings 14 are supported

on the bridge 18, in the usual manner, in instruments of this class. Connected to the diaphragm 23, of the sound reproducing means 22, is the lower end of the arm 19, of the bridge, whereby upon vibration of a  
60 string, the bridge will rock on the pivot 17, and cause vibrations of the diaphragm.

Disposed across the strings 14, a short distance in advance of the bridge 18, is an arcuate bar 24, the lower face of which is formed  
65 with notches 25, for the reception of the said strings. Connected to the intermediate portion of this bar 24 is a stem 26, the lower end of which is provided with a hook 27 engaged on the pivot 17, whereby to draw  
70 the bar down tightly onto the strings.

Connected to the other side of the sound reproducing means 22 is a horn 28 which extends upwardly and longitudinally of the instrument, in the direction of the neck,  
75 whereby the sound issuing therefrom will be directed away from the player, and toward an audience.

What is claimed is:

1. A musical instrument including a body, 80 strings on the body, a support on the body, a bridge pivotally mounted on the support and supporting the strings, a sound reproducing means on the body, means on the bridge connected with the sound reproducing means, and means bearing downwardly  
85 on the said strings and having taut connection with the pivot of the bridge whereby to increase the vibration of the bridge and of all of the strings through the medium of those  
90 being played upon.

2. A musical instrument including a body, a rockable bridge supported pivotally on the body, strings supported on the bridge, a sound reproducer supported below the body  
95 and operatively connected with the bridge by an arm on the said bridge, an arcuate bar bearing on the strings in advance of the bridge and having notches receiving the strings, and a stem rigidly carried by the  
100 arcuate bar and pivotally engaged with the pivot of the bridge, said stem being taut to maintain said bar in firm engagement with the strings, whereby to cause the vibration of the bridge and of all of the strings  
105 through the medium of the strings being played upon.

In testimony whereof, I affix my signature.

BENJAMIN A. ASKELSON.