

May 12, 1931.

J. PASTOR

1,804,802

CONSTRUCTION OF GUITARS

Filed Jan. 26, 1928

2 Sheets-Sheet 1

Fig. 1

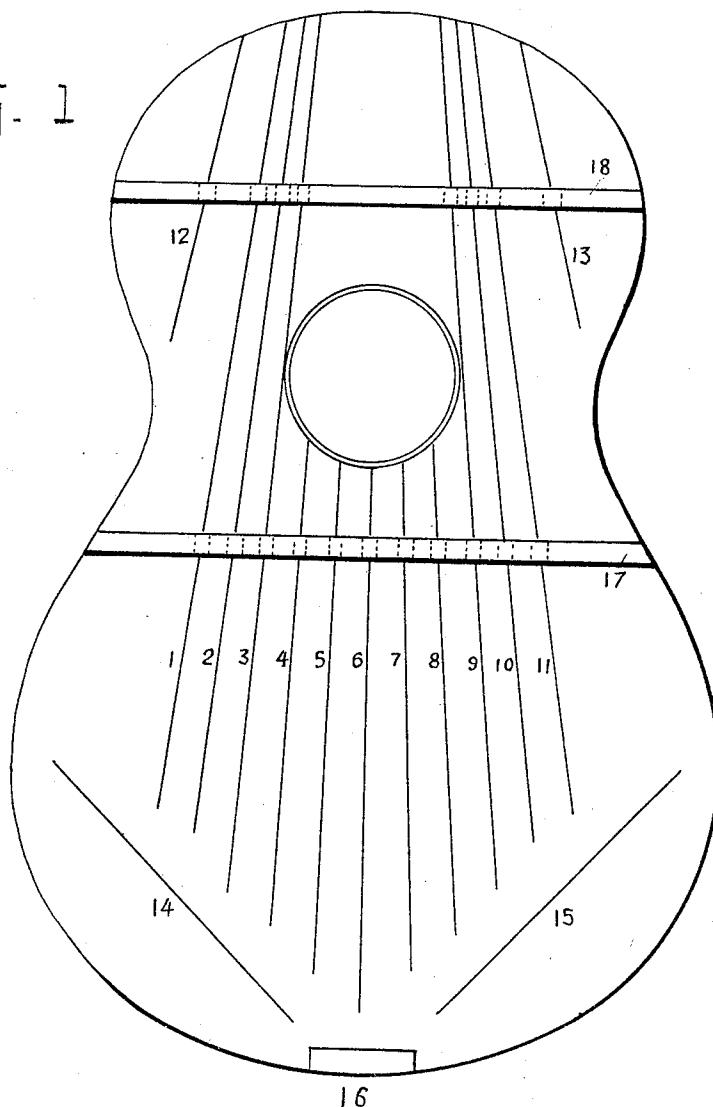


Fig. 2



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Fig- 2.B

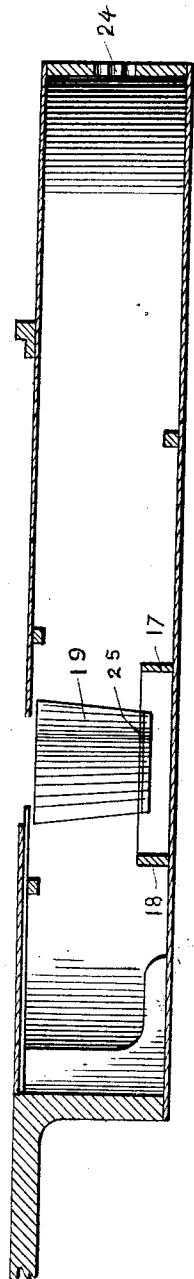


Fig- 3.

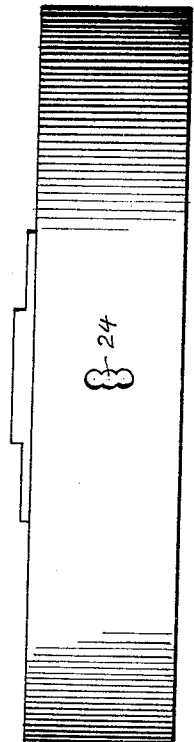
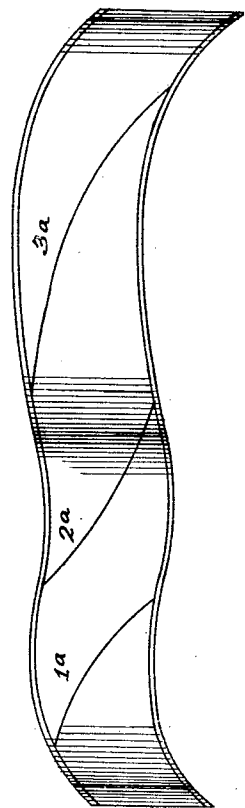


Fig- 1A.



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UNITED STATES PATENT OFFICE

JUAN PASTOR, OF BUENOS AIRES, ARGENTINA

CONSTRUCTION OF GUITARS

Application filed January 26, 1928. Serial No. 249,704.

My invention refers to certain improvements in the construction of guitars, by means of which a greater durability of said instruments is obtained, and principally a greater perfection, amplification and syntonization of the sound.

In order that my application may be more clearly comprehensible, same has been illustrated in the accompanying drawings, in which:

Fig. 1 is a front elevation of a guitar constructed according to my invention

Fig. 1A is a fragmentary side view of the guitar

Fig. 2 is a cross-section through the guitar

Fig. 2B is a longitudinal sectional view and

Fig. 3 an end view.

As illustrated in Figure 1A, within the guitar three arcuate ribs 1^a, 2^a, 3^a, are diagonally extending over the inner side walls and connect the front and rear walls of the guitar in order to strengthen the construction thereof and to compel the front and rear walls of the guitar to vibrate in unison.

As shown in Figure 1 two strengthening cross-bars 17 and 18 are arranged in the front wall of the instrument and in order to further strengthen its construction, there are provided a plurality of longitudinally extending ribs, for instance eleven, numbered from 1 to 11 inclusive grouped in fan shape as well as four angularly disposed upper longitudinal bars or ribs 12, 13 and lower ribs 14, 15 inclined to each other.

As shown in Figure 2B, to the two cross-bars 17 and 18 are glued or otherwise secured a small pine board 25 of suitable dimensions having a mouth or opening therein corresponding in diameter to the opening in the front wall of the guitar, as illustrated in Figure 1, and a sound tube or trumpet 19 extends from below the opening in the front wall of the guitar for a short distance

through the opening in board 25 in order to amplify and syntonize the sound.

In the lower end rim of the guitar three connected or associated openings 24 are provided, permitting the entrance of air into the instrument, and allowing a circulation of the air through the opening in the front wall in order to strengthen the sound and to keep the instrument dry, preventing the glued parts from separating by moisture which collects in closed instruments, or instruments not equipped with means for effecting an air circulation.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A guitar having a sound opening in its front wall comprising a plurality of strengthening ribs diagonally extending over the inner face of the side walls of the instrument for connecting its front and rear walls and causing a vibration of said front and rear walls in unison, a pair of cross-bars, a plate on said cross bars having a central opening of a dimension of the opening in the front wall of the instrument, a tube in said opening extending to a distance below the opening in the front wall for amplifying and syntonizing the sound, and a means for allowing an air current to pass through the instrument.

2. In a stringed musical instrument body including its side, rear and front walls, and a central sound opening in its front wall, a plurality of curved ribs diagonally extending over the inner side walls of the instrument for connecting its rear and front walls to cause same to vibrate in unison, two strengthening cross-bars in the rear wall, and a plurality of longitudinally extending long ribs, and converging upper and lower strengthening ribs on the front wall of the instrument, a small pine board glued to said strengthening cross-bars having a central

opening in alignment with and beneath the central sound opening in the front wall of the instrument, and a sound tube held between said cross bars in the rear wall extending from a distance below said central sound opening of the instrument through the central opening in said board for amplifying and syntonizing the sound, the lower end rim of the instrument provided with connected or associated openings for allowing the circulation of air through said openings and the central opening in the front wall to strengthen the sound and keep the instrument dry.

In testimony whereof I affix my signature.
JUAN PASTOR.

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