Oct. 18, 1949. L. H. LOWER 2,485,158

VIOLIN

Filed June 12, 1946 2 Sheets-Sheet 1

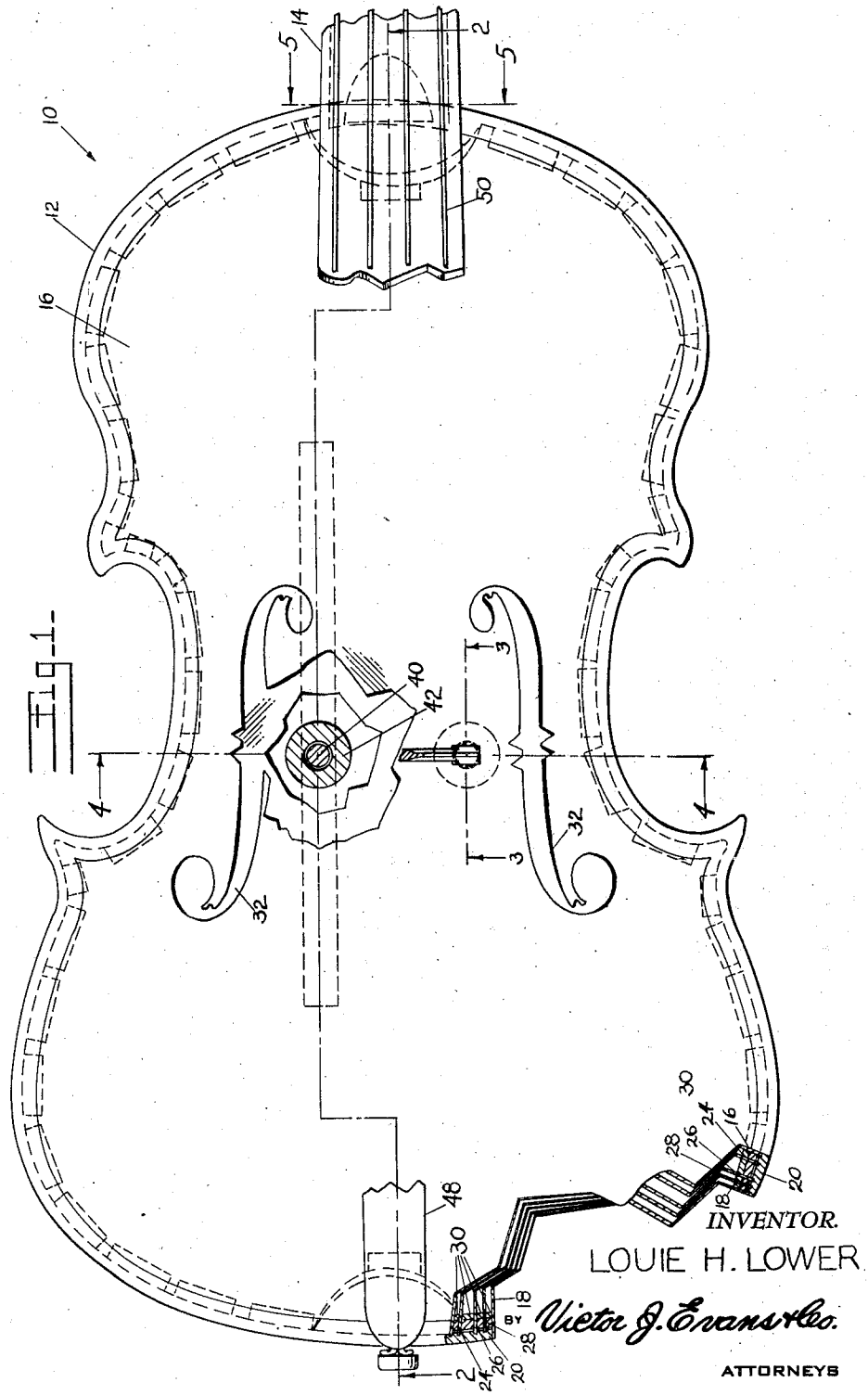


FIG. 1.

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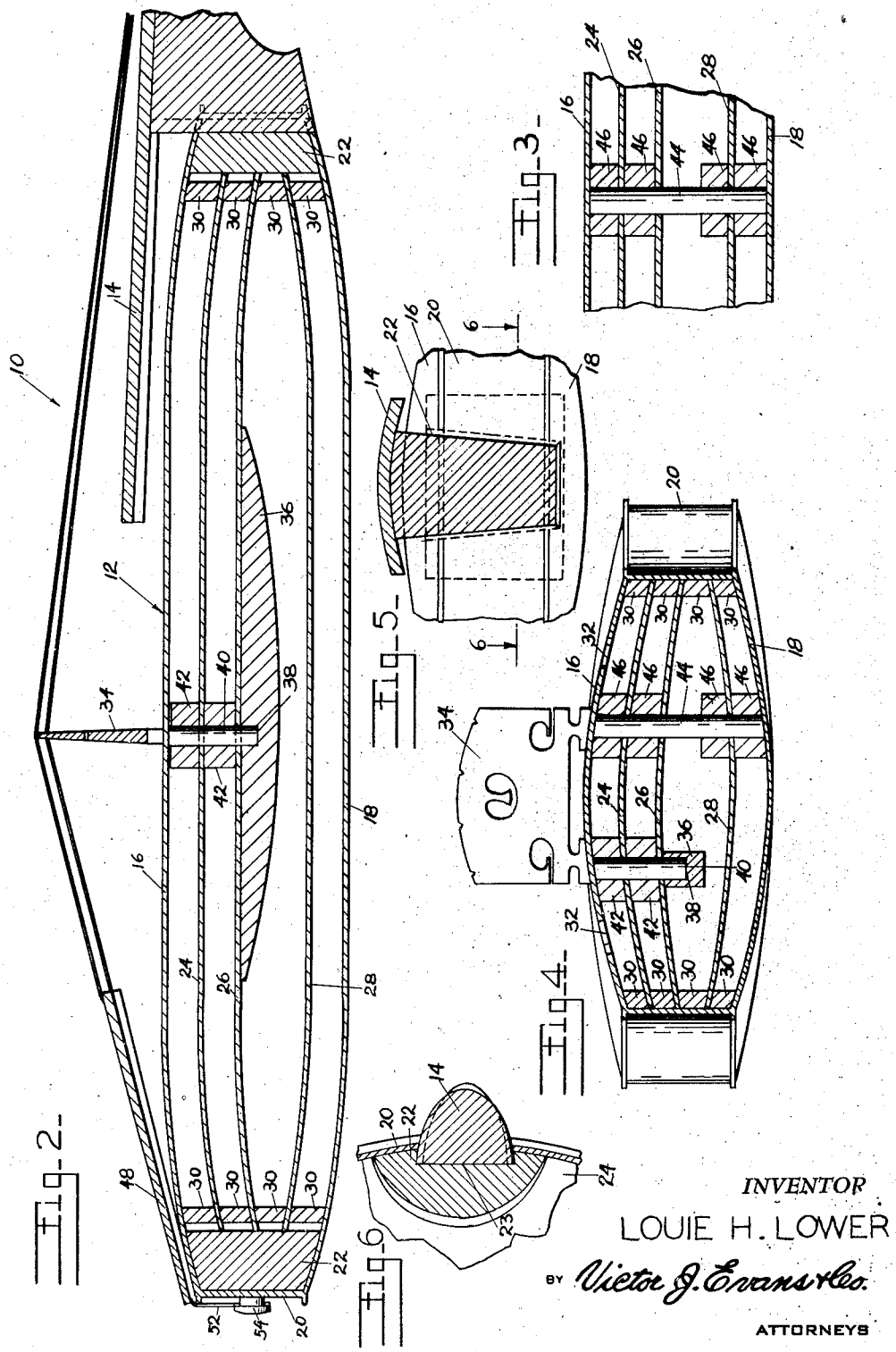


Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

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VIOLIN

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Application June 12, 1946, Serial No. 676,313

1 Claim. (Cl. 84—275)

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This invention relates to improvements in stringed instruments and more particularly a violin.

An object of this invention is to provide a stringed instrument in which the tone is magnified and clarified and the instrument can be tuned in two octaves.

Another object of the invention is to provide a stringed instrument having three fronts and two backs which with unique structure improves the tone of the instrument.

With the above and other objects and advantages in view the invention consists of the novel details of construction, arrangement and combination of parts more fully hereinafter described, claimed and illustrated in the accompanying drawings in which:

Figure 1 is an elevational view partly broken away of an embodiment of the invention;

Figure 2 is a sectional view on the line 2—2 of Figure 1;

Figure 3 is a sectional view on the line 3—3 of Figure 1;

Figure 4 is a sectional view on the line 4—4 of Figure 1;

Figure 5 is a sectional view on the line 5—5 of Figure 1 and

Figure 6 is a sectional view on the line 6—6 of Figure 5.

Referring more in detail to the drawings the reference numeral 10 designates the violin having the body portion 12 and neck or finger board 14 which is joined to the body portion.

The body portion is of substantially the same size of the conventional violin and corresponds in contour and appearance thereto.

The body 12 is made of a main front 16 and a main back 18 which are joined together and spaced from each other by the endless side wall 20 and end blocks 22 are provided at the top and bottom ends of the front and back in diametrically opposed relation to each other and in contact with the side wall 20 which is grooved at 23 to receive the neck 14.

The body is provided with upper intermediate partitions 24 and 26 which are of the same contour as the front 16 and with a lower intermediate partition 28 of the same contour as the back 18 and the partitions constitute in effect secondary fronts and back to the body.

These partitions are spaced from each other and from the front and back along their marginal edges by blocks 30, the blocks are slightly spaced from each other and as shown in Figure 1 follow the entire contour of the body. The

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parts as previously described being joined together by a suitable adhesive to form a unitary body.

The front 16 is provided with sound openings 32 in the usual manner and the conventional bridge 34.

A "G" bar 36 is secured to the lower surface of the partition 26 at the center thereof and provided with a seat 38 to receive the dowel or brace 40 which engages the inner surface of the front 16 below one side of the bridge 34 and circular apertured spacers 42 are mounted on the brace 40 intermediate of the upper portions and front 16. A second dowel or brace 44 is positioned below the opposite side of the bridge 34 and extends from the front 16 to the back 18 and apertured spacers 46 are mounted on the brace 44 intermediate all the partitions and the front and back of the body.

The braces act as sound posts. The rings are secured by an adhesive to the brace and to the partitions and the back but not to the front, which contacts the spacing rings 42 and 46 but is permitted to vibrate in relation thereto.

The body is provided with the usual tail piece 48 for the mounting of the strings 50 connected to the neck and the tail piece is connected to the body by the gut string 52 engaging the knob 54.

The preceding disclosure will it is believed make aparent to those skilled in the violin making art the resulting advantages afforded by the invention and it is to be understood that changes in the minor details of construction may be resorted to provided they fall within the spirit of the invention and the scope of the appended claim.

Having thus described the invention what is claimed as new and desired to be secured by Letters Patent is:

In a stringed musical instrument having a resonance body provided with a front and a back and a bridge adapted to be positioned on the front the improvement comprising a plurality of upper partitions following the contour of the front and a lower partition following the contour of the back and said partitions extending longitudinally of the body, means positioned at the opposite ends of and within the body to receive the partitions and space the partitions in relative spaced relation to each other and to the front and back of said body, a contoured elongated "G" bar secured to the bottom of the lower-most upper partition, a dowel like brace secured at its lower end to said bar with its upper end in engagement with the inner surface

of the front below one end of the bridge, spacing members mounted on said dowel like brace to separate the partitions from each other and from the front of the body, a second dowel like brace extending from the front to the back and passing through the partitions is positioned below the other end of the bridge spacing members on the upper end of the second dowel like brace to separate the partitions from each other and from the front of the body and a pair of spacing members on the lower end of said dowel like brace below and above said lower partitions and in contact therewith, and said dowel like braces being fixed at their lower ends to the back but free from the front at their upper ends to permit said front to vibrate in relation to said partitions.

LOUIE H. LOWER.

REFERENCES CITED

The following references are of record in the file of this patent:

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Number	Name	Date
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