No. 895,189. PATENTED AUG. 4, 1908.

F. NUSEKABEL.

STRINGED MUSICAL INSTRUMENT.

APPLICATION FILED AUG. 13, 1907.

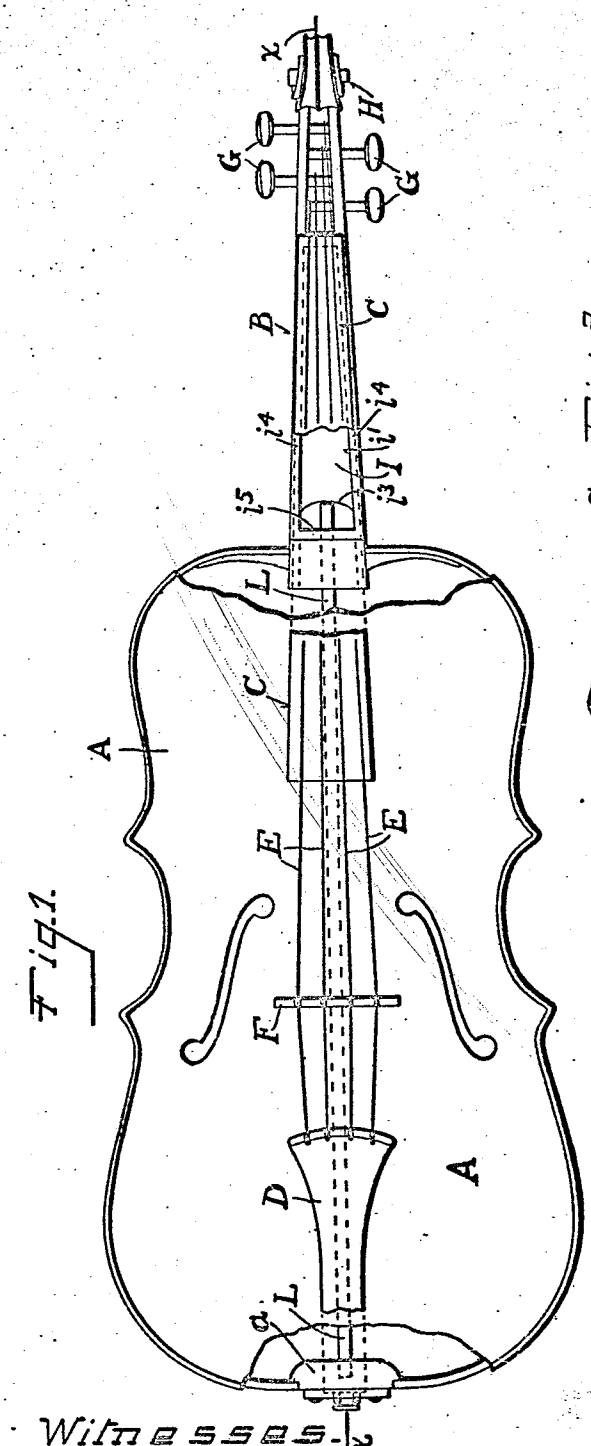

Fig. 1.

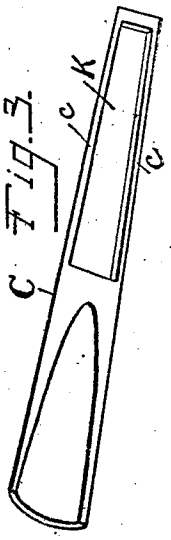

Fig. 3.

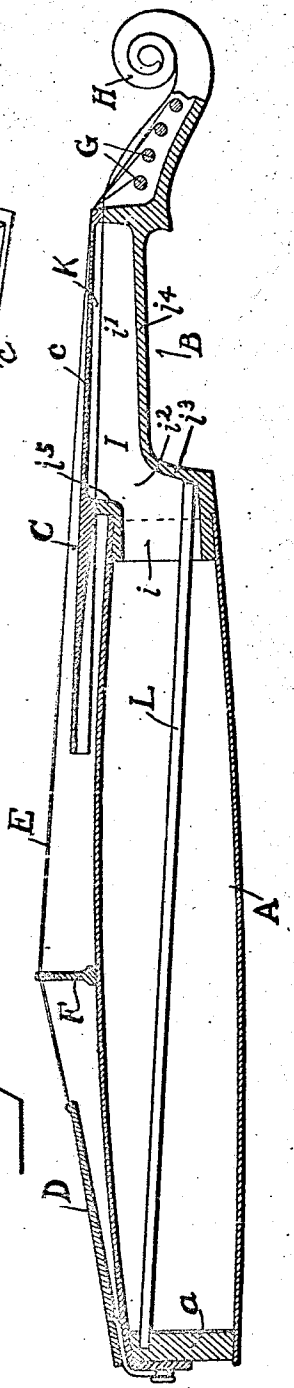

Fig. 2.

Witnesses.
Homer Bradford.
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UNITED STATES PATENT OFFICE.

FREDERICK NUSEKABEL, OF CINCINNATI, OHIO.

STRINGED MUSICAL INSTRUMENT.

No. 895,189. Specification of Letters Patent. Patented Aug. 4, 1908.

Application filed August 13, 1907. Serial No. 388,284.

To all whom it may concern:

Be it known that I, FREDERICK NUSEKABEL, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Stringed Musical Instruments, of which the following is a specification.

My invention relates to stringed musical instruments, and especially to violins, and has for its object the providing of means whereby the tone of the instrument is improved, its clearness of sound and resonance is increased, and whereby the instrument is lightened in weight and increased in stability, and the invention will be readily understood from the following description and claims, and from the drawings, in which latter:

Figure 1 is a plan view of my improved device, partly broken away for better illustration of parts. Fig. 2 is a central vertical longitudinal section of the same on the line x—x of Fig. 1; and, Fig. 3 is a bottom perspective view of the finger-board, showing the cavity formed therein.

I have illustrated my invention applied to a violin which is hollow.

A represents the body of the violin, B the neck thereof, and C the finger-board.

D is the tail-piece for the strings, attached to the violin in any ordinary manner, and E represent the strings which pass over the bridge F and the finger-board and are wound about keys G in the head H of the instrument.

The neck is hollowed or formed with a cavity, as shown at I, this hollowing or cutting away being accomplished so as to leave a wide opening i communicating with the hollow body A of the instrument, and an upper opening i', there being a wide throat i^2 between said openings. The forward wall i^3 of this throat is preferably located forwardly of the rear end i^5 of the upper opening i'. This cavity is preferably so formed as to leave but slight substance in the neck, as shown at i^4. The finger-board, which otherwise is preferably of usual construction, is provided with a cavity K, which in cross-section and form coincides substantially with the cross-section and form of the upper opening i' of the cavity of the neck, leaving preferably only a reduced cross-section c at the top and sides of the finger-board.

L is a reinforce-rod, and is preferably received against the forward wall i^3 of the throat of the neck, adjacent the bottom of said wall, and by the rear block a of the body A, adjacent the upper edge of said block, as clearly shown in Fig. 2, the rod being preferably glued in place. The throat opens upwardly into the upper opening i' of the cavity of the neck for directing the sound from the body of the instrument into the cavity in the finger-board, and vice versa.

The violin or other similar instrument to which my invention is applied and the finger-board, are preferably constructed of the usual woods of which such instruments are usually constructed, and my invention enables extreme lightness to be obtained in the instrument, as well as the tone to be improved, while also providing a strong construction.

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

1. In a stringed musical instrument, the combination, with the hollow body, of a neck having a cavity formed with an opening into the hollow of said body and also with an upper opening with a throat between said openings, and a finger-board having a cavity therein in its bottom coinciding in area substantially with said upper opening in the cavity of said neck, said cavity in the bottom of said finger-board being closed at its ends upon said neck and extending above the said neck and communicating through said upper opening with said cavity in said neck and through the latter and said throat with the hollow of said body, substantially as described.

2. In a stringed musical instrument, the combination, with the body, of a neck having a cavity formed with an opening into said body and an upper opening with a throat between said openings, said throat having a forward wall situated forward of the rear end of said upper opening, and a reinforce-rod extending longitudinally of said musical instrument and secured to the upper part of the rear end of said body and the lower part of said forward wall, substantially as described.

3. In a stringed musical instrument, the combination, with the body, of a neck having a cavity formed with an opening into said body and an upper opening with a throat between said openings, said throat having a

forward wall situated forward of the rear end of said upper opening, a reinforce-rod extending longitudinally of said musical instrument and secured to the upper part of the rear end of said body and the lower part of said forward wall, and a finger-board having a bottom cavity substantially coinciding in area and position with said upper opening, said neck and finger-board being rigidly secured together at the edges of said last-named cavity and opening, substantially as described.

In testimony whereof, I have subscribed my name hereto in the presence of two subscribing witnesses.

FREDERICK NUSEKABEL.

Witnesses:
D. JUDSON STARR,
FLORENCE QUINN.