

(No Model.)

2 Sheets—Sheet 1.

H. LINDEMANN.  
METHOD OF STRINGING GUITARS, &c.

No. 458,789.

Patented Sept. 1, 1891.

Fig. I

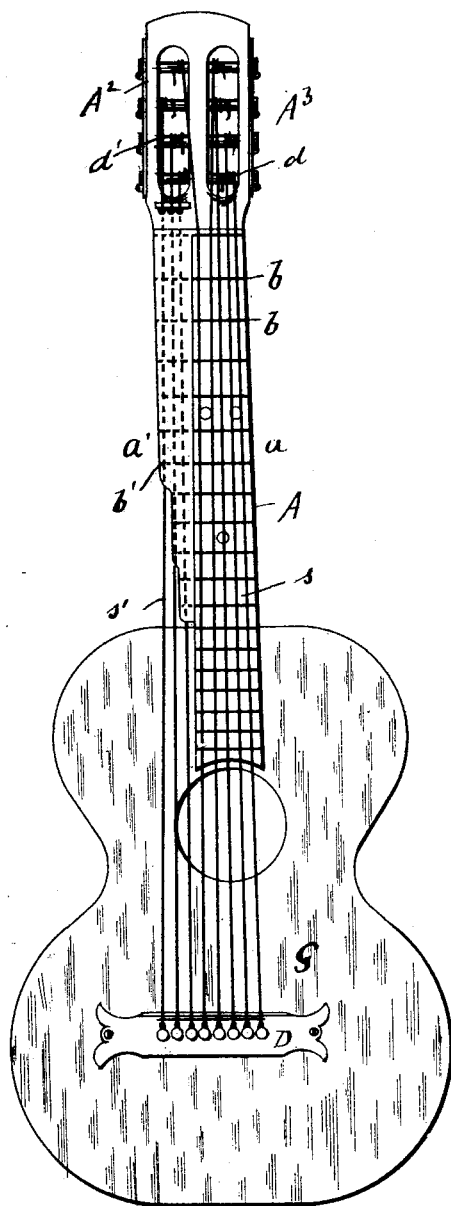
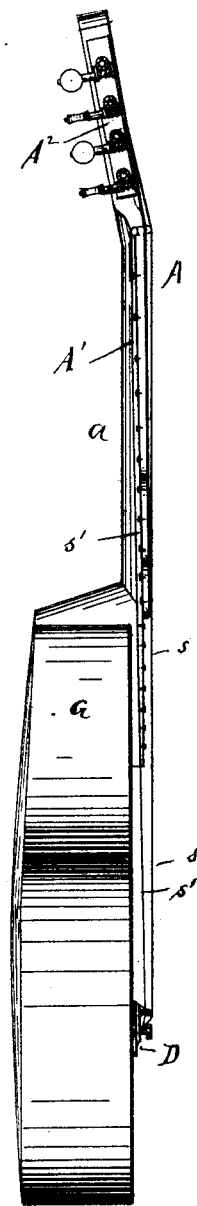


Fig. II



WITNESSES:

*W. W. W.*  
*O. W. W.*

INVENTOR

*H. Lindemann*

BY

*Charles R. R.*

ATTORNEYS.

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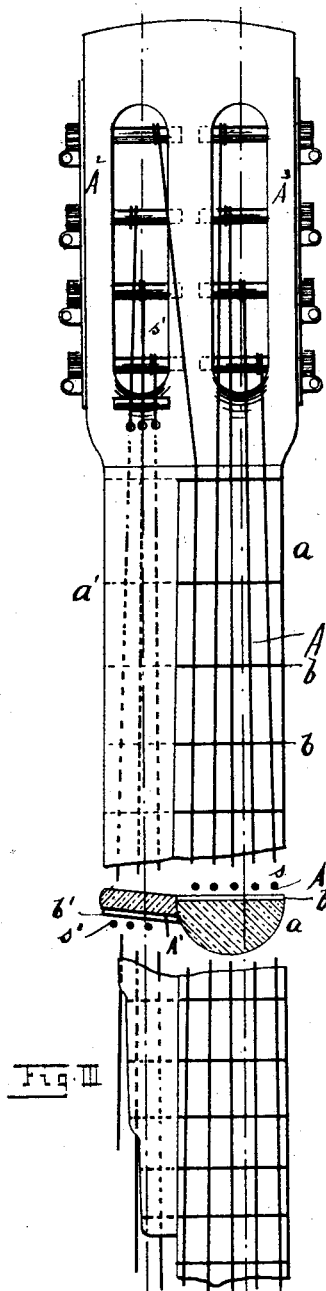


Fig. III

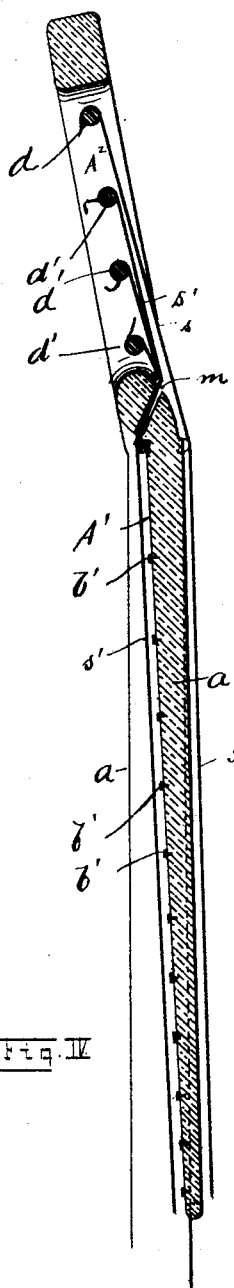


Fig. IV

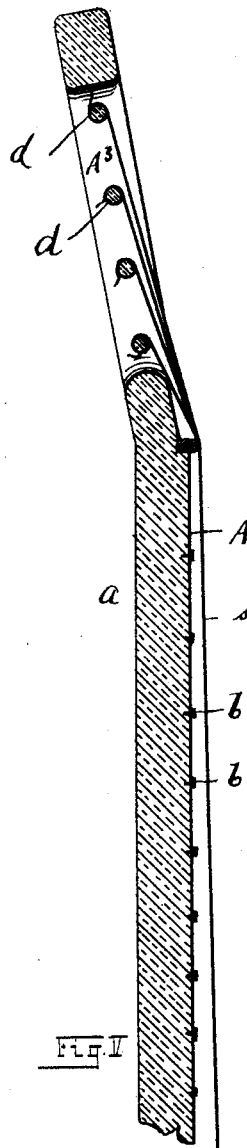


Fig. V

WITNESSES  
*[Signature]*  
*[Signature]*

INVENTOR  
H. Lindemann  
BY *[Signature]*  
ATTORNEYS.

# UNITED STATES PATENT OFFICE.

HERMANN LINDEMANN, OF KLINGENTHAL, GERMANY.

## METHOD OF STRINGING GUITARS, &c.

SPECIFICATION forming part of Letters Patent No. 458,789, dated September 1, 1891.

Application filed April 22, 1891. Serial No. 389,894. (No model.)

### *To all whom it may concern:*

Be it known that I, HERMANN LINDEMANN, of the town of Klingenthal, in the Kingdom of Saxony, Empire of Germany, a citizen of the German Empire, have invented certain new and useful Improvements in Stringing Guitars and Mandolins, of which the following is a specification.

This invention relates to improvements in stringed musical instruments, especially guitars, mandolins, banjos, &c.

The object of my invention is to provide an instrument of this kind which is so constructed that the strings can easily be pressed upon the finger-board at the frets, even for the most complicated combinations, and which also permits producing new combinations of sounds, such as could not be produced with such instruments heretofore.

The invention consists in a stringed musical instrument, such as a guitar, mandolin, banjo, &c., provided with the usual finger-board and frets on the face of the neck, and a similar finger-board provided with frets on the back of the neck, the strings on the finger-boards on the face and back of the neck together passing over the opening in the body of the instrument in the usual manner.

The invention also consists in the construction and combination of parts and details which will be fully described hereinafter, and finally pointed out in the claim.

In the accompanying drawings, Figure I is a face view of a guitar provided with my improvement. Fig. II is a side view of the same. Fig. III is an elevation and section, on an enlarged scale, of my improved neck for stringed musical instruments, parts being broken out. Fig. IV is a longitudinal sectional view on the line 4 4 of Fig. III, and Fig. V is a longitudinal sectional view on the line 5 5 of Fig. III.

Similar letters of reference indicate corresponding parts.

The neck *a*, of the usual construction, is provided on its face with the finger-board *A*, having the usual frets *b*, the strings passing over said finger-board *A* being secured to the pegs

*d* on the head *A*<sup>3</sup> of the neck *a*, and the lower ends of the strings *s* are secured, in the usual manner, to pegs in the bridge *D* on the front of the body *G* of the instrument. The neck *a* is provided with a lateral extension *a'*, on the back of which the finger-board *A'* is formed, on which the frets *b'* are secured. Strings *s'* pass over said additional finger-board *A'*, and their upper ends are secured to pegs *d'* in the head *A*<sup>3</sup>, said strings also passing over the face of the body *G* and having their lower ends secured to pegs in the bridge *D*. In the instrument shown five strings *s* pass over the finger-board *A* on the front of the neck *a*, and three strings *s'* pass over the finger-board *A'*, formed on the back of said neck. The strings *s'*, passing over the finger-board on the back of the neck, can easily be pressed against said finger-board by means of the thumb of the left hand, the strings *s* on the front of the neck being pressed on the finger-board by means of the remaining fingers of the left hand. The strings *s'* pass through apertures *m* in the upper part of the extension *a'*. An instrument of this kind is especially adapted for solo playing, as the scope of its harmony is materially increased, as is also the volume of sound and the beauty of the same.

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

In a stringed musical instrument, the combination, with a body and neck, of a finger-board on the front of the neck and another finger-board on the back of the neck, and strings passing over said finger-boards, the strings on the back finger-board passing through apertures in the top of the neck, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

H. LINDEMANN.

Witnesses:

GUS W. LANGE,  
OSCAR GOTTSCHALK.