

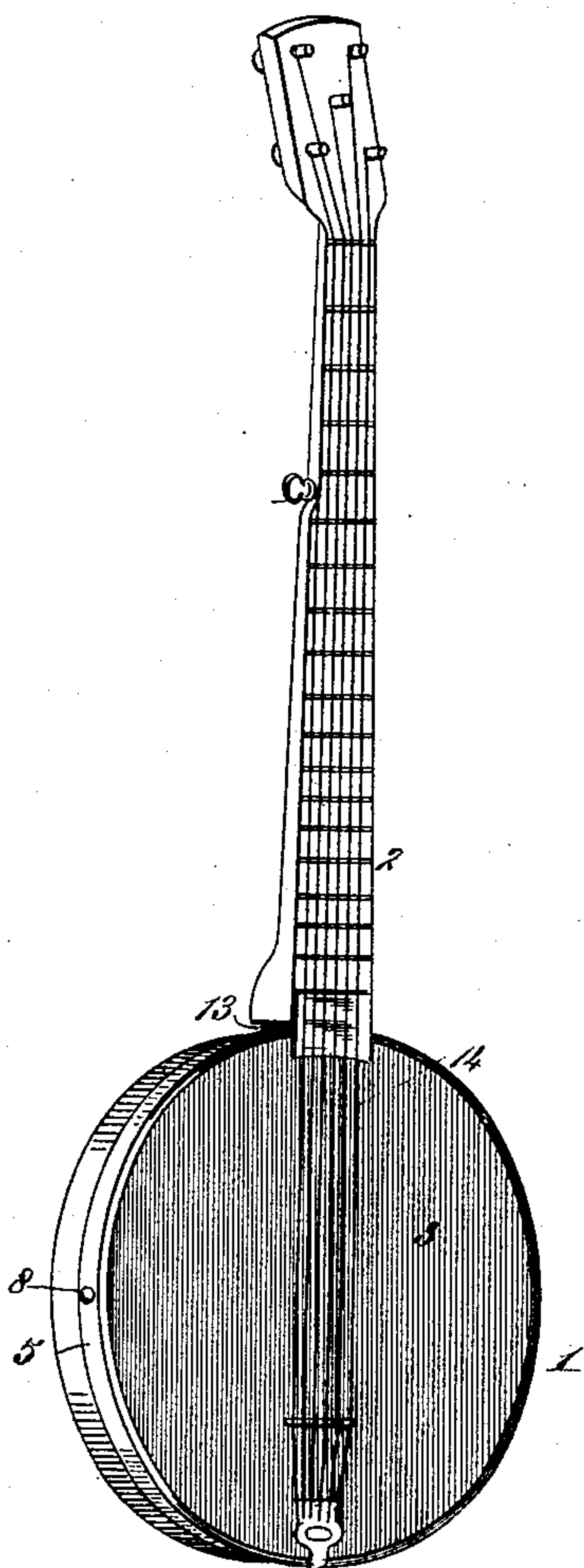
(No Model.)

E. BOULANGER.  
BANJO.

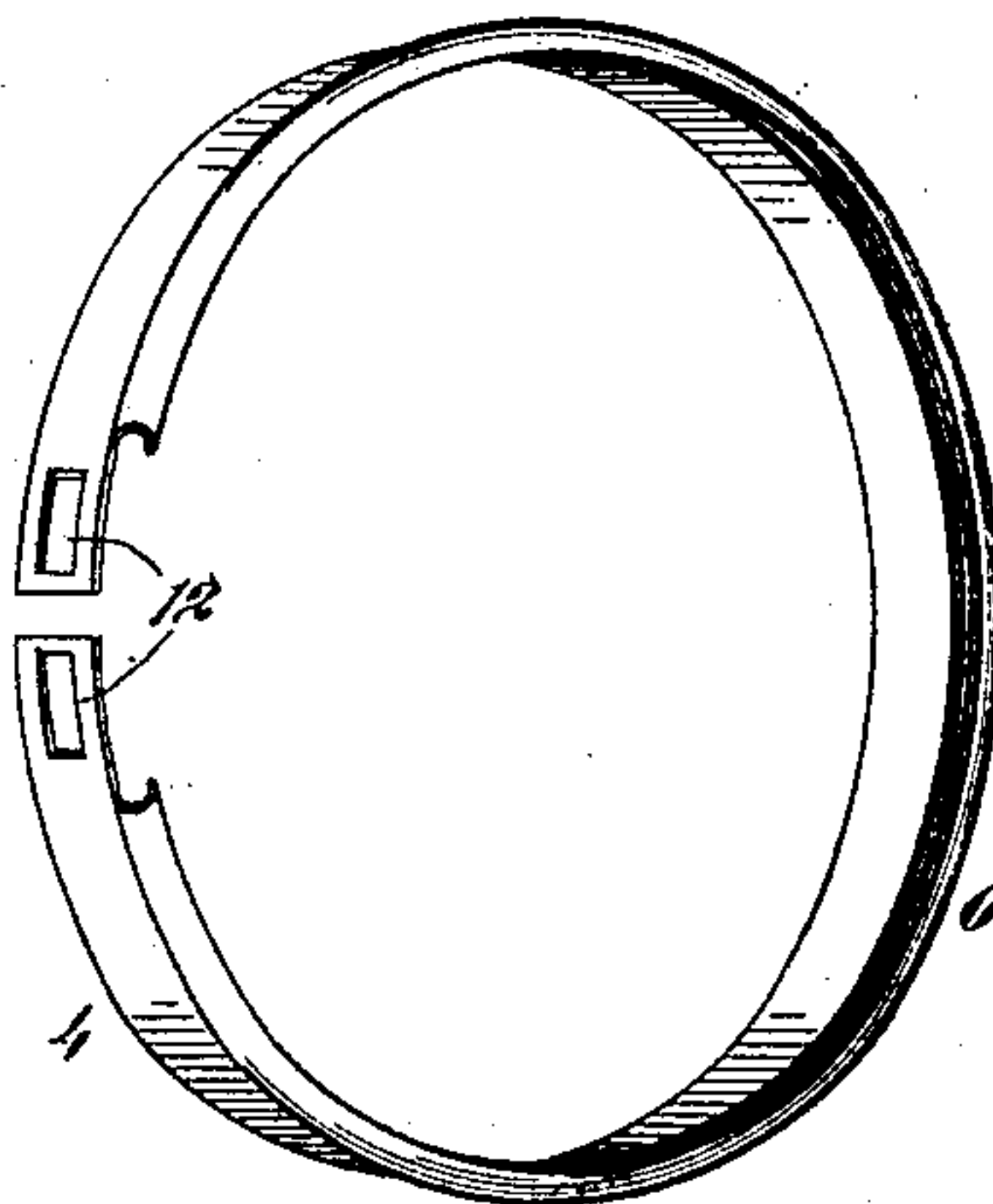
No. 415,019.

Patented Nov. 12, 1889.

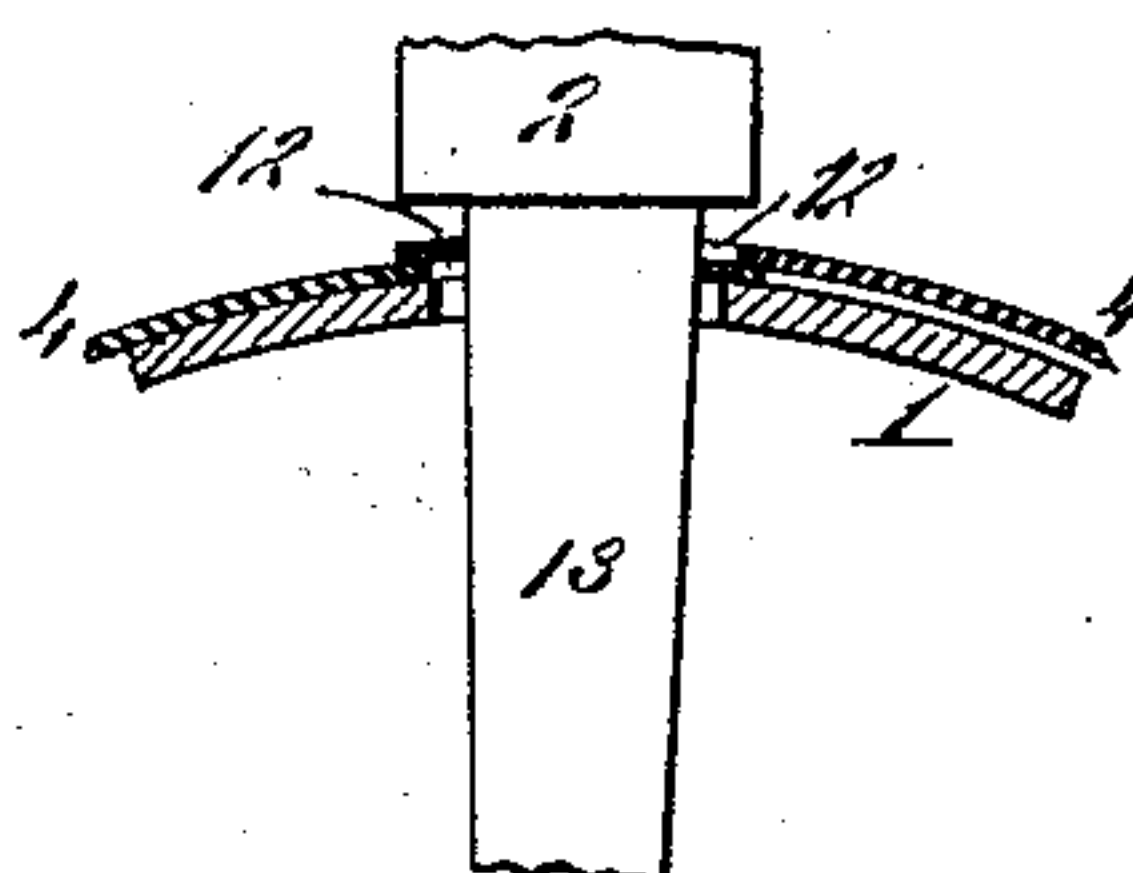
*Fig. I.*



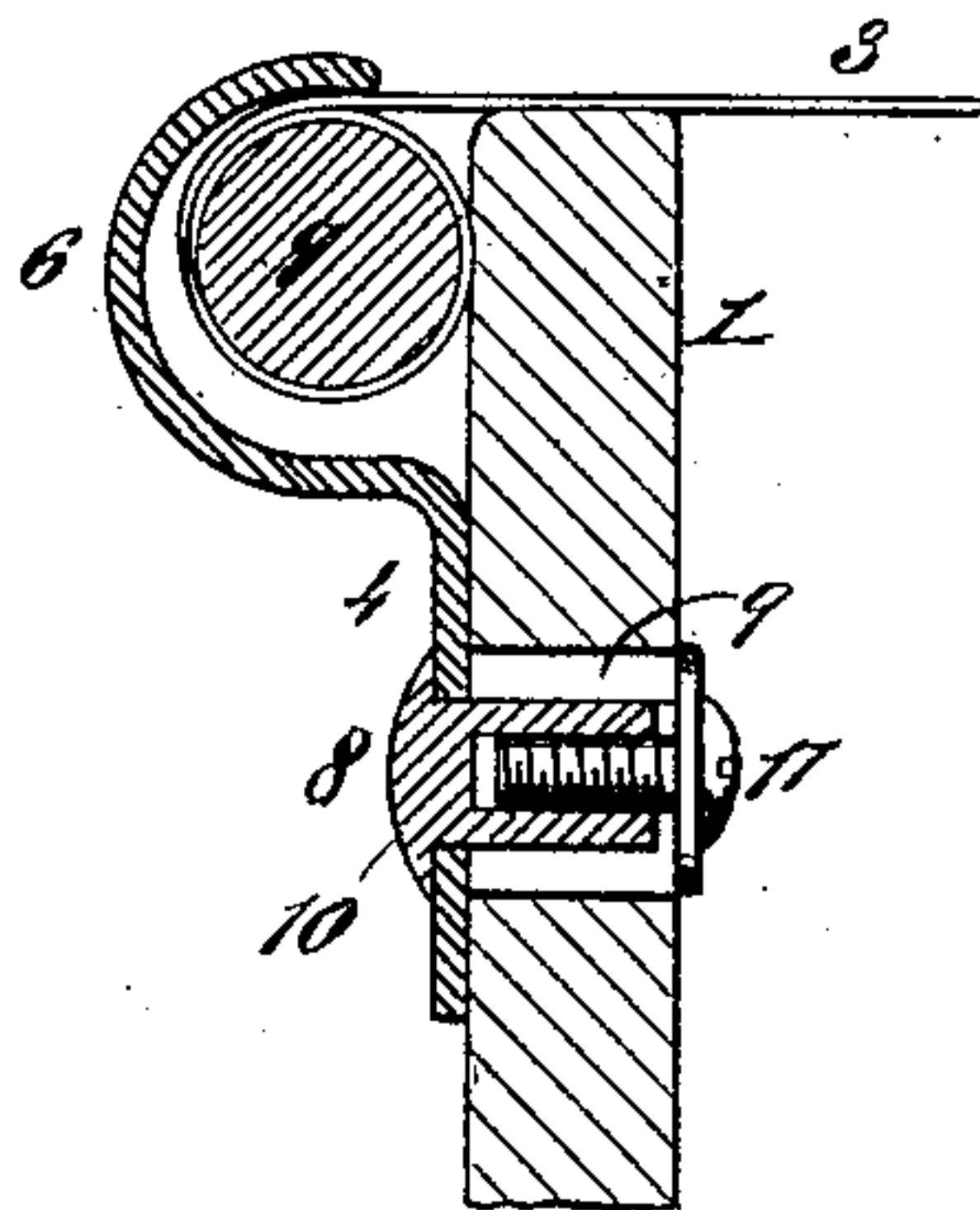
*Fig. II.*



*Fig. III.*



*Fig. IV.*



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# UNITED STATES PATENT OFFICE.

EMILE BOULANGER, OF ST. LOUIS, MISSOURI.

## BANJO.

SPECIFICATION forming part of Letters Patent No. 415,019, dated November 12, 1889.

Application filed December 10, 1888. Serial No. 293,086. (No model.)

*To all whom it may concern:*

Be it known that I, EMILE BOULANGER, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Banjos, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, and in which—

Figure I is a perspective view of a banjo having my improvement. Fig. II is a perspective view of the head-retaining band. Fig. III is a detail view showing the inner end of the stock in elevation and part of the band and body in section. Fig. IV is an enlarged transverse section of one side of the body, band, and ring.

My invention relates to certain improvements in banjos; and my invention consists in features of novelty hereinafter fully described, and pointed out in the claims.

Referring to the drawings, 1 represents the body, and 2 the stock, of the banjo.

3 represents the head, and 4 a band for securing the head to the body.

The method I have devised for securing the head to the body consists of the band 4, which has a flaring upper edge 6, forming a groove to receive a ring 7, around which the edge of the head is wrapped, or to which it is otherwise secured. The lower edge of the band is secured to the body by means of horizontal fastenings 8, fitting in slots 9 of the body. My fastening consists of a headed sleeve 10, which is threaded to receive a screw 11. In tightening the head upon the body it will be seen that by simply loosening on the screws 11 and forcing downward on the band 4 this tightening will be effected, (the fastenings 8 moving in the slots 9,) and then by tighten-

ing the screws again the head will be held securely and tightly upon the body. The band is held tightly upon the body by the stock 2. For this purpose the band is divided and has two slots 12, as shown clearly in Fig. II, and by lapping the adjacent ends of the band these slots coincide. The wedge-shaped or tapering inner end 13 of the stock is then inserted through the slots, and being forced inward tightens the band on the body, this being done, of course, before the strings 14 are applied.

In the above-described manner the head is securely held to the body in a very cheap and effective manner.

I claim as my invention—

1. In a banjo, the combination of the head, slotted body, a band having a grooved upper end, a ring fitting in the upper end of the band and to which the head is secured, and connecting-bolts fitting in the slots of the body, substantially as and for the purpose set forth.

2. In a banjo, the combination of the slotted body, a head, a ring to which the head is secured, a band formed to receive the ring, and bolts consisting of threaded sleeves, and screws fitting in the slots in the body, substantially as and for the purpose set forth.

3. In a banjo, the combination of the body, head, a band for securing the head to the body, and the stock, said band being divided and having slots 12 to receive the tapering shank of the stock, substantially as and for the purpose set forth.

EMILE BOULANGER.

In presence of—

GEO. H. KNIGHT,  
EDW. S. KNIGHT.