

(No Model.)

C. H. EISENBRANDT.
HAMMER FOR AUTOHARPS.

No. 490,407.

Patented Jan. 24, 1893.

Fig. 1.

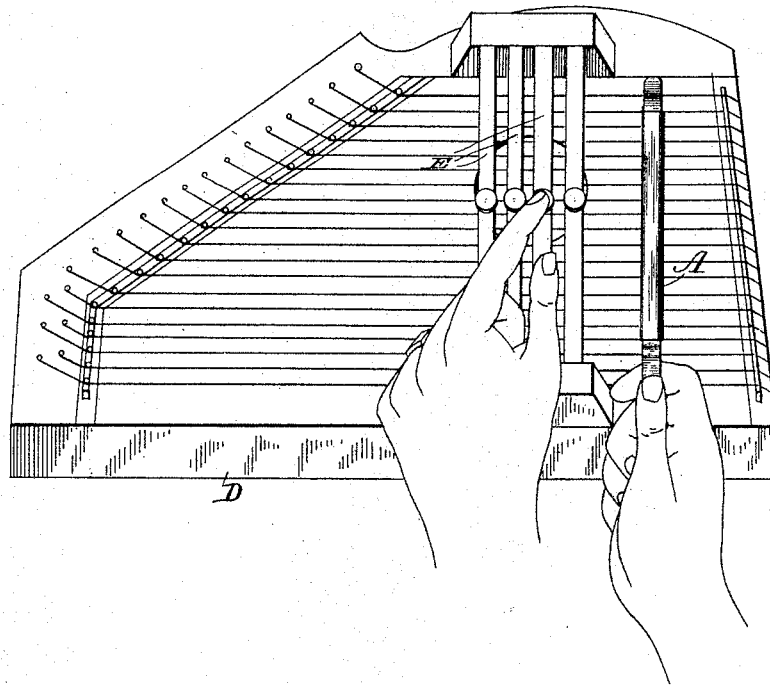
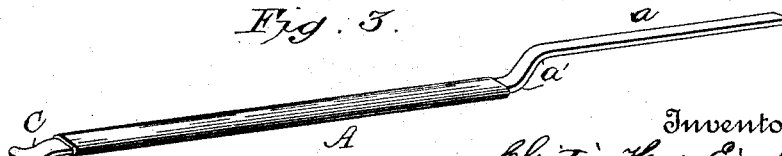
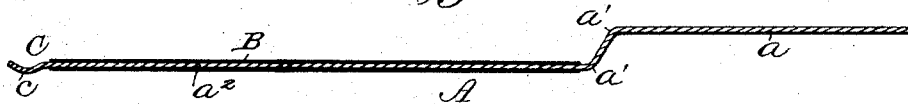


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

CHRISTIAN HENRY EISENBRANDT, OF BALTIMORE, MARYLAND.

HAMMER FOR AUTOHARPS.

SPECIFICATION forming part of Letters Patent No. 490,407, dated January 24, 1893.

Application filed May 6, 1892. Serial No. 432,095. (No model.)

To all whom it may concern:

Be it known that I, CHRISTIAN HENRY EISENBRANDT, a citizen of the United States, residing at Baltimore, in the State of Maryland, have
5 invented certain new and useful Improvements in Hammers for Autoharps, &c.; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art
10 to which it appertains to make and use the same.

My invention relates to means for striking chords on such stringed instruments as the autoharp, zither, dulcimer and the like, and
15 its object is to provide a striker or hammer which will strike all the notes of the chord simultaneously, so as to produce a more pleasing and artistic effect than when the strings producing the chord are struck consecutively
20 or "arpeggio" by running the fingers or a "pick" over them in the usual manner.

Another object of my invention is to provide means whereby the melody note of each chord will be struck, so as to be loud and
25 brilliant while the remaining notes will be subdued or softened.

For these purposes my invention consists in a hammer whose essential characteristics will now be described, particular reference
30 being had to the accompanying drawings in which—

Figure 1 represents, in perspective, an autoharp about to be struck by a hammer embodying my invention. Fig. 2 a longitudinal vertical section of the hammer, and Fig. 3 a perspective view thereof.

It will be noted that this hammer consists in a strip A, of flexible material, preferably spring-metal, having a handle, *a*, and a double
40 bend at *a'*, *a'*, so as to make the forward or hammer portion, *a*², substantially parallel to the handle. The hammer portion, *a*², is sheathed in a rubber, felt or leather sleeve, B, and its forward end or beak, C, preferably
45 extends or protrudes beyond the rubber-sleeve, B. The beak, C, is preferably formed, as shown, that is to say, provided with a downward convexity or bulge, at *c*.

It will be obvious from the foregoing, that when the proper damper, E, of the autoharp, 50 D, is depressed by one hand and the strings are struck by the hammer, A, in the other hand of the operator, all the notes or strings producing the chord desired will be simultaneously sounded, and under the preferable 55 construction of my hammer—in such a way that the melody note or string, with which the metallic beak, C, comes into contact, will sound brilliantly while the other strings, which are struck by the muffled portion, B, of the ham- 60 mer will be subdued or softened.

It is manifest that while I have shown my hammer as used in connection with an autoharp, the same may also be used with other stringed instruments such as zithers, and the 65 like.

While I consider the form of hammer herein shown and described, the best embodiment of my invention, it is evident that the same may be modified in many particulars without 70 departing from my invention.

What I claim and desire to secure by Letters Patent, therefore, is—

1. A hammer for stringed instruments consisting of a flexible strip, in combination with 75 a rubber, felt or leather sleeve sheathing the same, substantially as set forth.

2. A hammer for stringed instruments consisting of a strip of metal, sheathed in a rubber, felt or leather sleeve and having a beak 80 projecting beyond the rubber-sleeve, substantially as set forth.

3. A hammer for stringed instruments consisting of a strip of metal, sheathed in rubber, felt or leather and having a beak provided 85 with a bulge or bend, as at *c*, the said beak extending beyond the rubber sheath, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

CHRISTIAN HENRY EISENBRANDT.

Witnesses:

HENRY F. COOK,
LOUIS C. DEETJEN.