

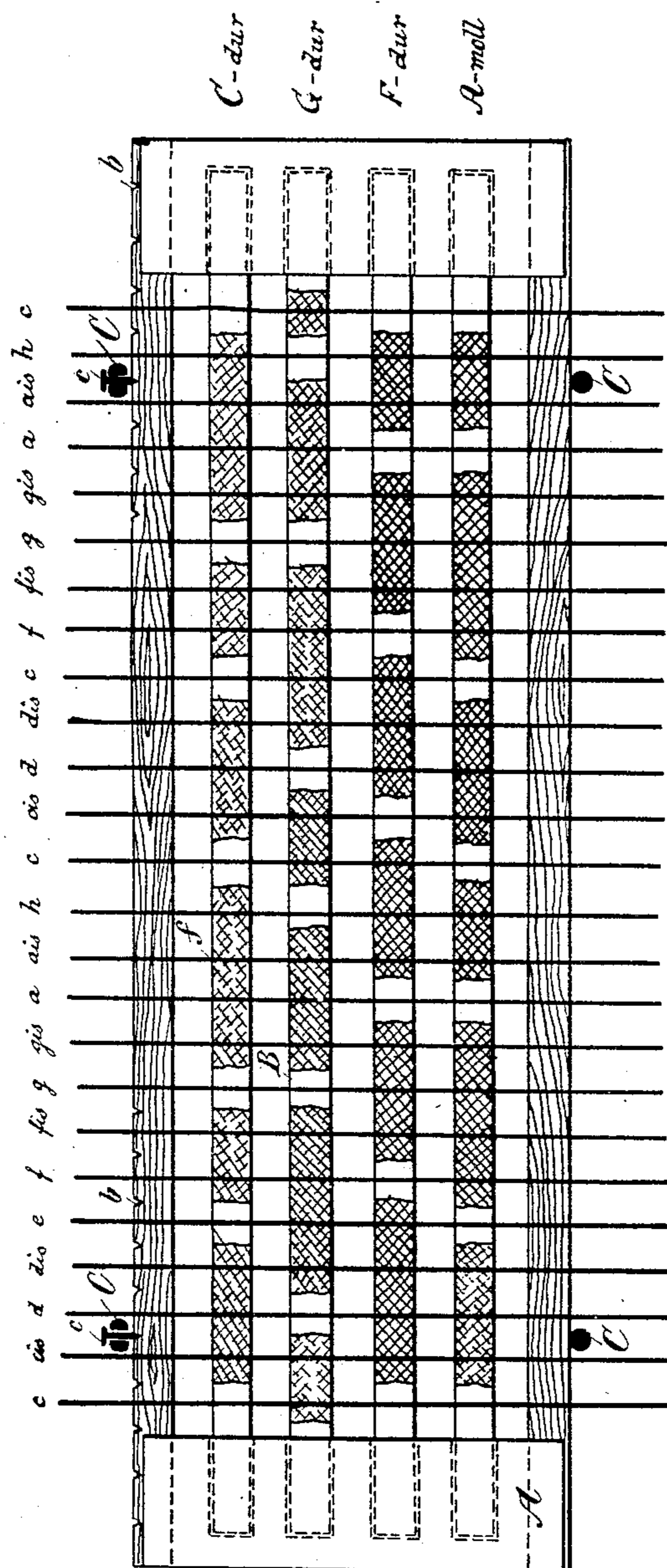
P. STARK & K. A. GÜTTER.

ATTACHMENT FOR ZITHERS.

No. 480,750.

Patented Aug. 16, 1892.

FIG. 1.



Witnesses:
Theodor Studel.
Willy Eckert

Inventors:
Paul Stark and Karl August Güter
per Gerson and Jachse
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FIG.2.

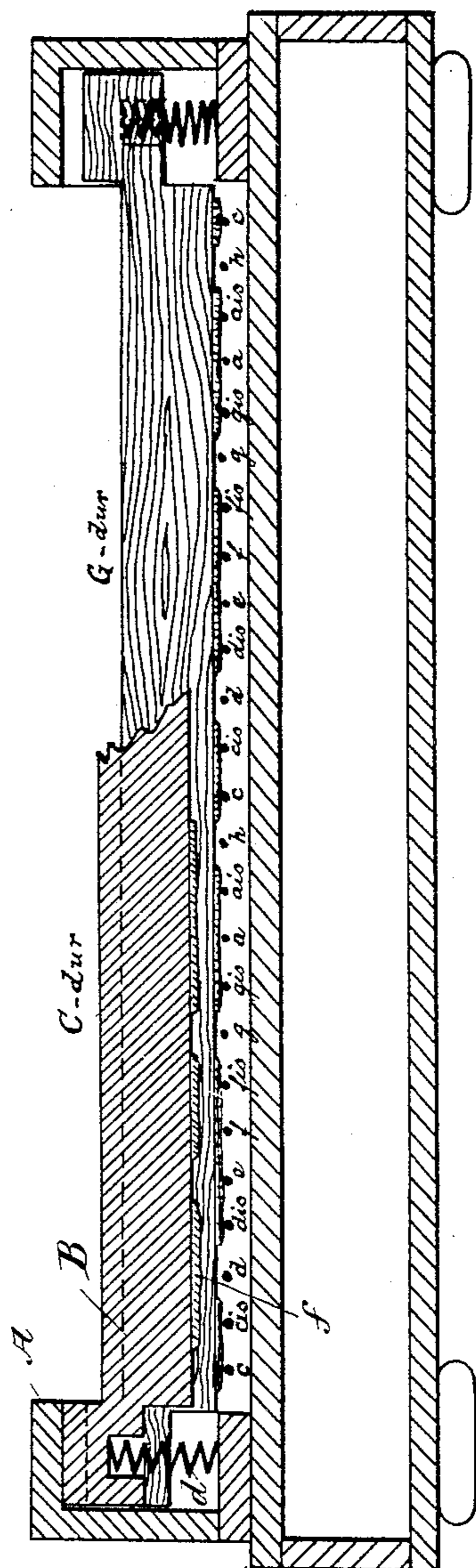
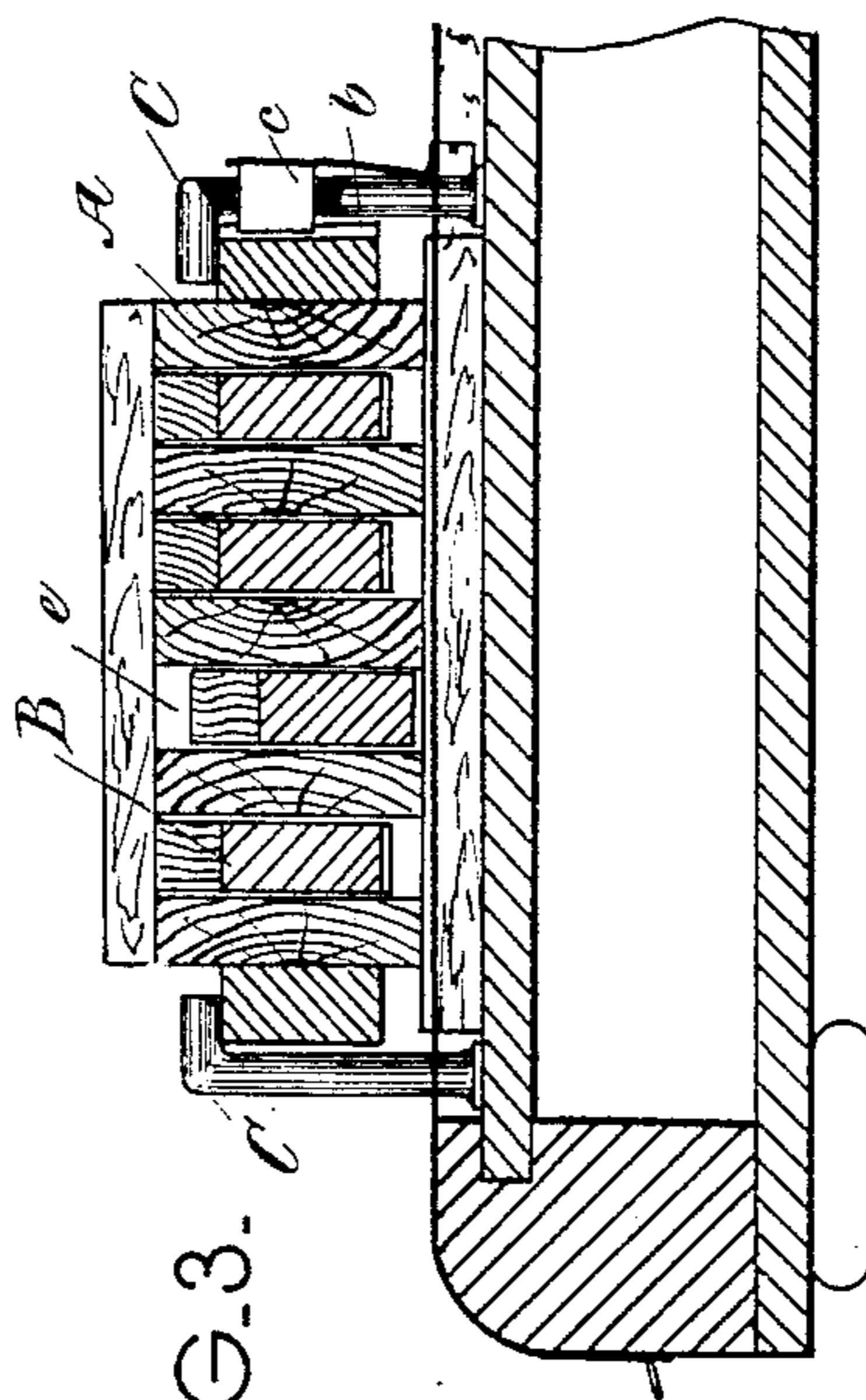


FIG.3.



Witnesses:
Theodor Steudel.
Willy Eckert.

Inventors:
Paul Stark & Karl August Gütter
per Gerson and Jackson
their Attorneys.

UNITED STATES PATENT OFFICE

PAUL STARK AND KARL AUGUST GÜTTER, OF MARKNEUKIRCHEN,
GERMANY.

ATTACHMENT TO ZITHERS.

SPECIFICATION forming part of Letters Patent No. 480,750, dated August 16, 1892.

Application filed November 12, 1891. Serial No. 411,756. (No model.)

To all whom it may concern:

Be it known that we, PAUL STARK and KARL AUGUST GÜTTER, subjects of the Emperor of Germany, residing at Markneukirchen, in the
5 Empire of Germany, have invented a new and useful Device in Zithers for rendering only certain groups of strings adapted to be sounded, of which the following is a specification.

10 The object of this invention is a device in zithers by means of which various groups of strings (chords, &c.) can be laid free to be sounded, so that when all strings are struck only the respective strings appertaining to
15 the desired group are sounded.

In the annexed drawings, Figure 1 is a bottom view, Fig. 2 a cross-section, and Fig. 3 a longitudinal section, of the part of a zither which is provided with the new device.

20 This improved device is in the main constructed as follows: A quadrangular frame A is guided between pins or hooks C, secured in the zither, and contains in parallel slots *e* several bars B, which are normally raised
25 by the spiral springs *d*. The bottom surfaces of said bars B have cloth plates *f* stuck there-

on at certain distances. By pressing down one of the bars B the cloth plates *f* thereof are caused to damp a number of the strings, so that only harmonically-sounding strings
30 are left free. The different bars B being covered with cloth plates *f* in various divisions and the frame A being adjustable between its guide-pins C, a great variety of chords or other tone groups can be produced. The
35 frame A can be fixed in its various positions by means of click-springs *c*, secured to the guide-pins C and adapted to catch into notches or indents *b* of the frame A.

What we claim is—

40 In a device for rendering in zithers only certain groups of strings adapted to be sounded, the combination of the frame A, having notches *d*, with the guide-pins C, bearing click-springs *c*, and the bars B, raised by
45 springs *d* and provided with cloth plates *f*, as and for the purpose set forth.

PAUL STARK.

KARL AUGUST GÜTTER.

Witnesses:

THEODOR STEUDEL,
WILLY ECKERT.