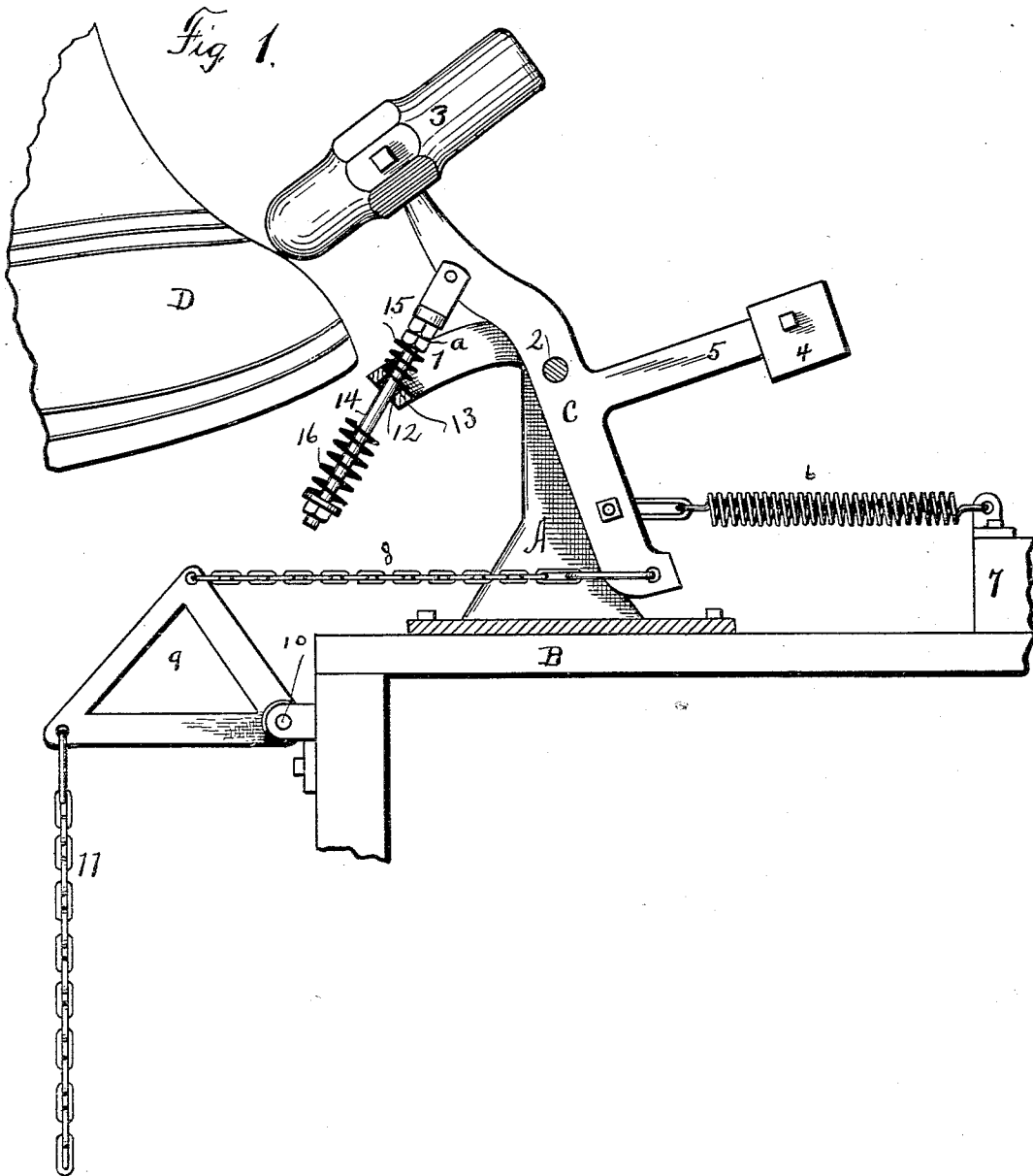


W. J. GOING.
BELL RINGING DEVICE.

No. 504,721

Patented Sept. 12, 1893.



WITNESSES:

H. A. Carhart
Geo. M. Blaney

INVENTOR

Wm. J. Going
By Smith & Benson
ATTORNEYS.

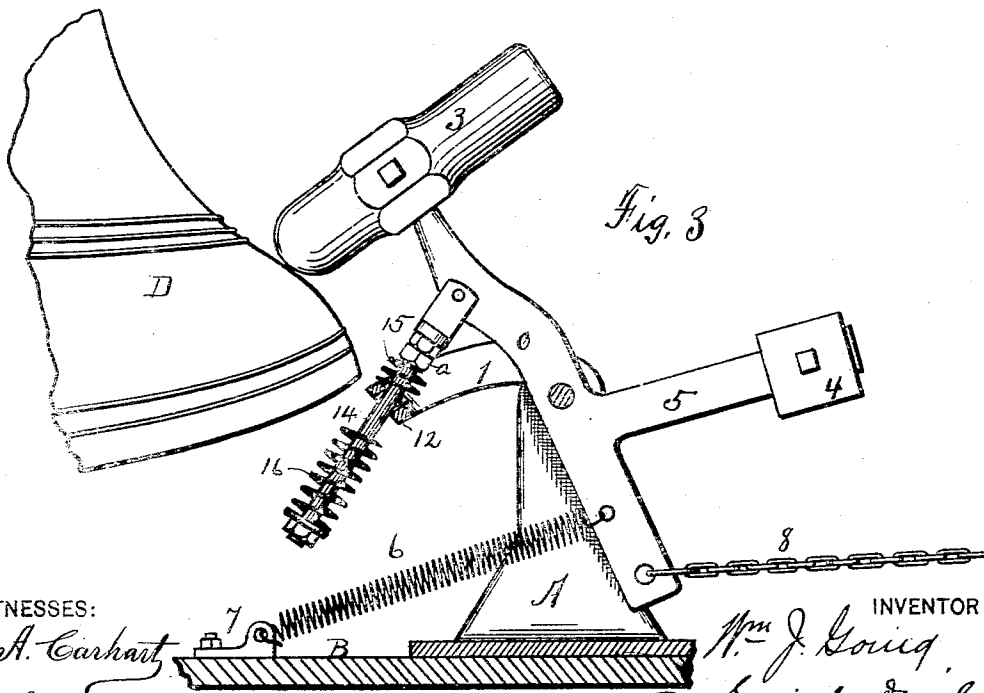
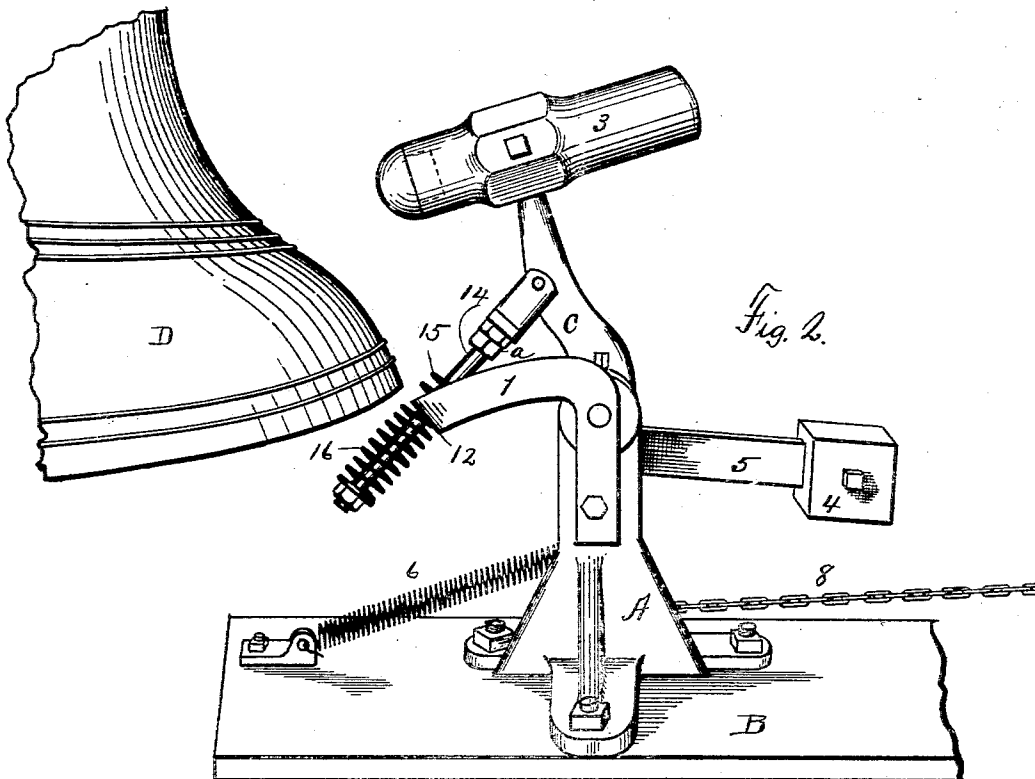
(No Model.)

2 Sheets—Sheet 2.

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H. A. Carhart
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INVENTOR

W. J. Going
G. Smith & Robinson
ATTORNEYS.

UNITED STATES PATENT OFFICE.

WILLIAM J. GOING, OF AMSTERDAM, NEW YORK.

BELL-RINGING DEVICE.

SPECIFICATION forming part of Letters Patent No. 504,721, dated September 12, 1893.

Application filed October 19, 1892. Serial No. 449,409. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM J. GOING, of Amsterdam, in the county of Montgomery, in the State of New York, have invented new and useful Improvements in Bell-Ringing Devices, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

My invention relates to devices for ringing chimes and more particularly to devices for operating the hammer which strikes the bell.

My object is to produce a device for singly ringing chimes and to provide means for varying the touch of the hammer upon the bell, for the purpose of imparting a softer touch to the bell, thereby enabling me to produce all of the tones of the gamut.

My invention consists in the several novel features of construction and operation hereinafter described and which are specifically described in the claims hereunto annexed. It is constructed as follows, reference being had to the accompanying drawings, in which—

Figure 1, is a side view of my device complete, showing a chain broken away, which passes to the key-board. Figs. 2 and 3 are modified forms thereof.

A—, is a standard mounted upon a stationary base —B— in any ordinary and well known manner and having an arm —1— extending from its upper end toward the bell.

C— is a lever pivoted substantially centrally at —2— having its upper end provided with a hammer —3— secured thereon in any ordinary and well known manner and of any design desired. The lever —C— is balanced by a weight —4— secured adjustably upon the arm —5—; and —6— is a coil spring secured to the permanent base —7— at one end and at its opposite end to the lower end of the lever —C— for the purpose of modifying the stroke of the hammer, at the opposite end of the lever, upon the bell. I do not, however, limit myself to this spiral spring —6— as it will be evident that any other material which will impart elastic quality to the connection may be used.

8—, is a chain or other connection between the lower end of the lever —C— and the upper point of a triangular bracket —9—; said triangular bracket being hinged to the base —B— at the point —10— as shown; and —11—

is a chain or other connection which connects the third corner of the bracket with the finger board beneath.

The arm —1— is provided with an upturned end —12— having an opening —13— therein through which the shaft —14— passes, said arm —14— being secured at its upper end to the lever —C— and —15— and —16— are spiral springs mounted on said arm —14— each side of the upturned end —12—, for the purpose of further softening the touch of the hammer when it falls upon the bell —B— as shown in Figs. 1 and 3, the spring —15— also serving to throw the hammer from the bell. The spiral spring —16— serves a like purpose in gently stopping the upward throw of the hammer. The upper end of the arm —14— is threaded, and a nut —a— adapted to engage therewith, so that the stroke of the hammer may be further modified.

In Fig. 2 I show the striking point of the hammer as provided with a tip which may consist of wood, leather or other material.

My invention is operated as follows: The operator, by means of the cord, rod or chain —11— pulls the left-hand end of the triangle down, which in turn draws the lower end of the lever —C— to the left, by means of an intermediate connection, as shown, thereby raising the hammer to strike a heavy or light blow, as desired. The chain —11— is then released and the hammer falls upon the bell, its force being partially weakened by the spring —6— and the spring —15— interposed between the end —12— and the bolt —a— upon the arm —14—.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The herein described device for striking bells, comprising a lever pivotally mounted and having a hammer at one end, and means for raising it, at its opposite end, a downwardly extending arm secured to the upper part of said lever, passing through an opening in the arm —1—, which arm is secured upon the lower end to the upper part of the lever, coiled springs surrounding either end of the arm —14— as set forth.

2. The herein described device for striking bells, comprising a lever pivotally mounted and having a hammer at one end, means for

raising it, at its opposite end, a downwardly
extending arm secured to the upper part and
adapted to pass through an opening in the
arm —1—, which arm is secured upon the
5 lower end of the upper part of the lever, an
adjustable nut —a— located near the inner
end of the arm --14— and a coil spring sur-
roundingsaid arm —14— interposed between
said nut and the point where it passes through
10 the arm —1—.

3. The herein described device for striking

a bell comprising a lever swingingly mounted,
having a hammer at one end, means for rais-
ing it at its opposite end and an adjustable
weight for balancing said hammer, as set forth. 15
In witness whereof I have hereunto set my
hand this 6th day of October, 1892.

WM. J. GOING.

In presence of—

C. W. SMITH,

HOWARD P. DENISON.