

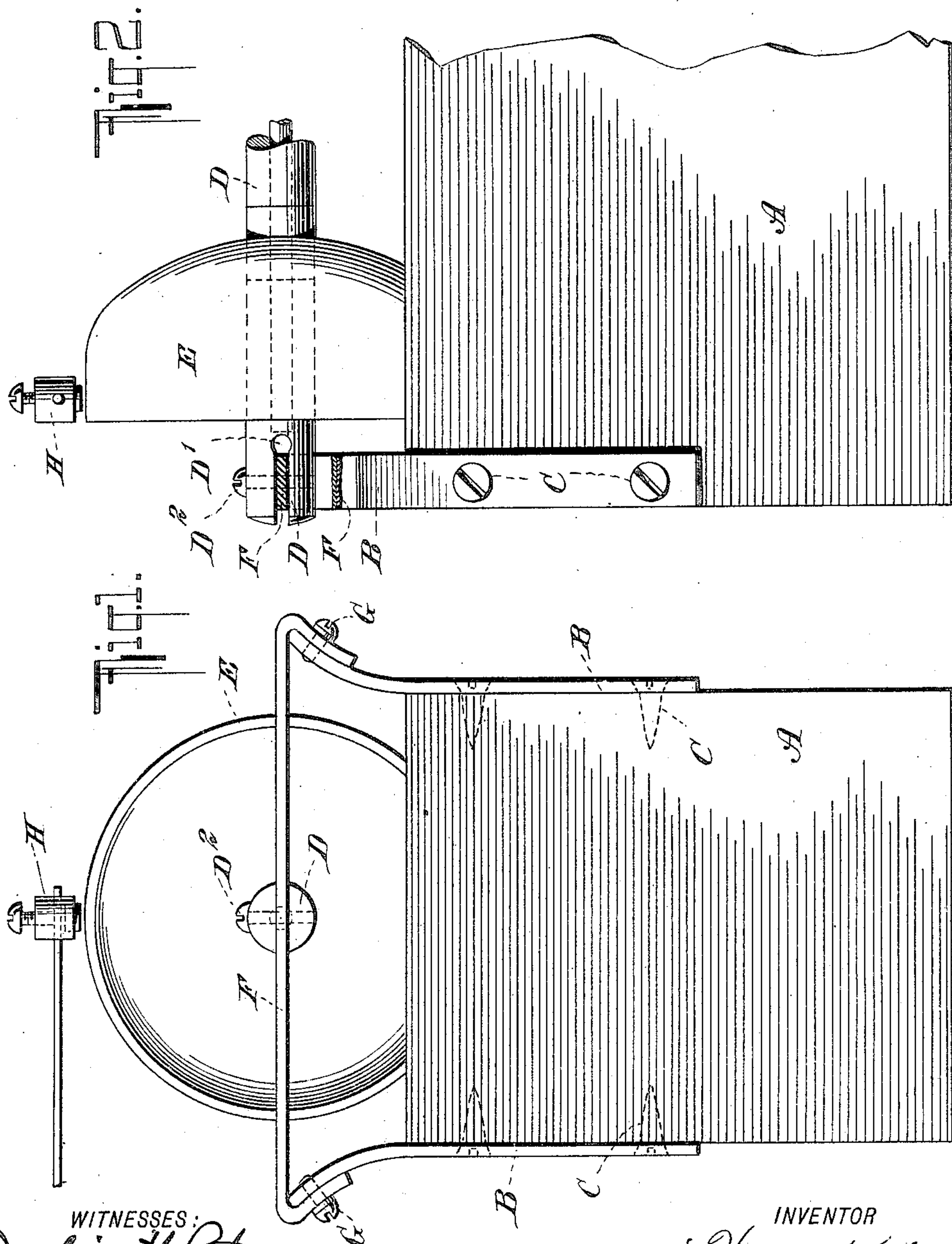
No. 875,187.

PATENTED DEC. 31, 1907.

H. KOCH.

BELL.

APPLICATION FILED DEC. 4, 1905.



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

HENRY KOCH, OF RAHWAY, NEW JERSEY, ASSIGNOR TO THE REGINA COMPANY, OF RAHWAY, NEW JERSEY, A CORPORATION OF NEW JERSEY.

## BELL.

No. 875,187.

Specification of Letters Patent.

Patented Dec. 31, 1907.

Application filed December 4, 1905. Serial No. 290,106.

*To all whom it may concern:*

Be it known that I, HENRY KOCH, a citizen of the United States, resident of Rahway, county of Union, and State of New Jersey, have invented certain new and useful Improvements in Bells, of which the following is a specification.

My invention relates to bells or chimes such as are used in clocks or music boxes, and has for its object to minimize or deaden the sound of the hammer blows on bells or chimes of this description.

My invention will be fully described hereinafter and the features of novelty will be pointed out in the appended claims.

Reference is to be had to the accompanying drawings, in which

Figure 1 is an end view of a series of bells mounted according to my improved construction, and Fig. 2 is an elevation thereof, with parts in section.

A represents a portion of a music box or clock, as the case may be, to which, supports B are secured in any convenient manner as by screws C. The said supports B are in the nature of springs and are located in pairs near each end of the rod D, upon which the bells E are mounted in any convenient manner. A strip of leather or other substantially inelastic material F is secured to each pair of supports B, by means of screws G, and is held stretched or taut between said supports. The ends of the rods D are split as shown at D', which split ends are adapted to be secured to the strips F at a point about midway between the supports B by means of screws D<sup>2</sup>. If desired the screws D<sup>2</sup> may be omitted and the strips F may be forced into the split ends D'.

H are the hammers which may be operated in any convenient manner and as the operating mechanism forms no part of my invention I have not deemed it necessary to show it in the drawings.

The distance between the free ends of the supports B is preferably greater than the

diameter of the bells E, so that the ends of the yielding radial carriers F are located at points beyond the periphery of the respective bell E.

In operation as the hammers H are operated by the operating mechanism, the said hammers will strike the bells E. These bells being carried by the rod D which is mounted on the flexible strips F secured to the spring supports B will be driven downward and away from the hammers the moment the blow is struck. The bells are thus given a quick, decisive blow, and owing to the flexibility of the supports B and strips F the sound of the hammers striking the bells which is present in existing constructions is practically done away with and the bells give forth a clear ringing sound.

While I have described my invention as applied to music boxes or clocks I wish it distinctly understood that my device may be incorporated wherever it is desired to use mounted bells.

I claim:

1. The combination of a bell, an inelastic carrier, to the central portion of which said bell is secured, said carrier extending radially of the bell and beyond the periphery thereof, and an elastic support to which the ends of said carrier are secured.

2. The combination of a bell, a rod on which said bell is mounted, an inelastic member to which said rod is secured arranged on the side toward which the opening of the bell faces, and an elastic support for said inelastic member.

3. The combination of a bell, stationary elastic supports and an inelastic carrier, the ends of which are secured to said supports, the bell being secured to the central portion of the carrier.

4. The combination of a bell, means for carrying said bell, an inelastic member to which said carrying means is secured and an elastic support for said inelastic member.

5. The combination of a bell, a rod on



which said bell is mounted, an inelastic member to which said rod is secured and an elastic support for said inelastic member.

6. The combination of a bell, a rod carrying said bell, an inelastic member to which said rod is secured extending at substantially right angles to said rod and an elastic support for said inelastic member.

7. The combination of a bell, a rod on which said bell is mounted, provided with a

split end, a member which engages the split end of the rod and a support to which opposite ends of said member are attached.

In testimony whereof, I have hereunto signed my name in the presence of two subscribing witnesses.

HENRY KOCH.

Witnesses:

F. J. MACDONALD,  
WM. J. FROST.