C. A. BAILEY.

CHIME TOYS.

No. 182,147. Patented Sept. 12, 1876.

Fig. 1

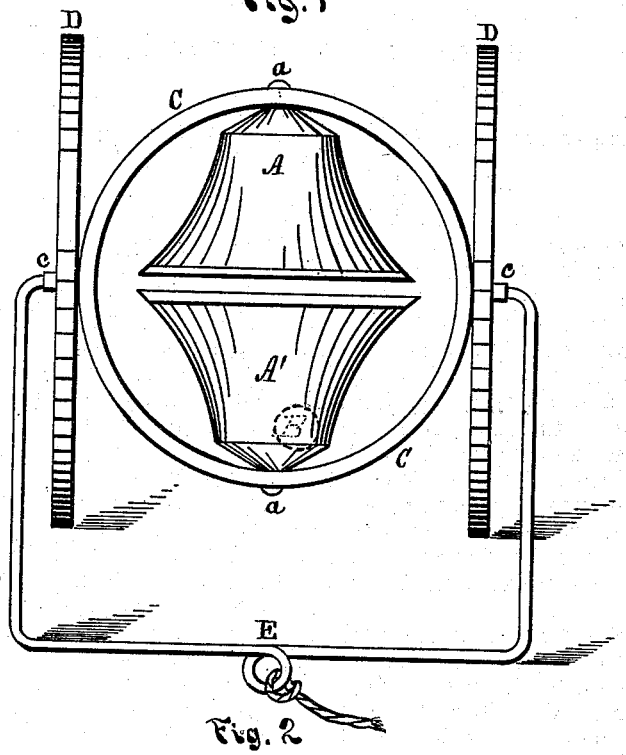
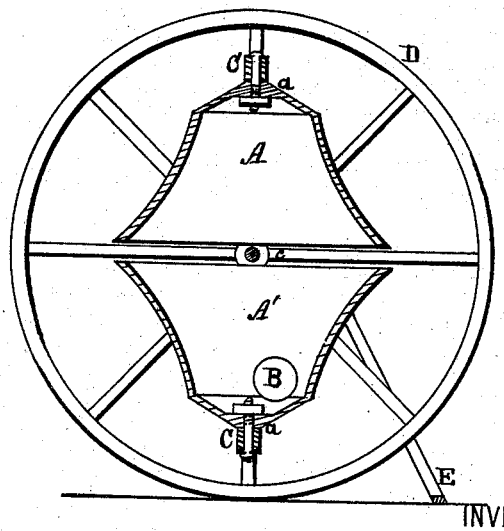


Fig. 2



WITNESSES

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UNITED STATES PATENT OFFICE.

CHARLES A. BAILEY, OF COBALT, ASSIGNOR TO GONG BELL MANUFACTURING COMPANY, OF EAST HAMPTON, CONNECTICUT.

IMPROVEMENT IN CHIME TOYS.

Specification forming part of Letters Patent No. **182,147**, dated September 12, 1876; application filed August 12, 1876.

To all whom it may concern:

Be it known that I, CHARLES A. BAILEY, of Cobalt, in the county of Middlesex and State of Connecticut, have invented a new and valuable Improvement in Toy Chimes; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of the front elevation of my device. Fig. 2 is a vertical cross-section of the same, from front to rear.

My invention is a toy chime; and consists in the construction and arrangement of the following peculiar elements: Two bells, fastened by their ears within and on the vertical diameter of an annular yoke, so that their mouths shall be directly opposite to each other, and yet a sufficient distance apart for the full emission of sound; also, a loose ball-clapper moving freely within the opposite barrels of said bells; also, said yoke suitably hung and fastened, by each end of its horizontal or axial diameter, upon two wheels; and, finally, a draft-yoke or tongue-coupling, attached directly to the axle of said bell-yoke, all of which, and their purposes, are hereinafter more fully described, and illustrated by the accompanying drawings, in which the same letters designate identical parts of my device in the different figures, respectively.

The letters A A′ represent the said two bells. The letter *a* represents the ears of said bells, the letter B the ball-clapper, and C the said annular yoke. The yoke, as shown, is provided with two trunnions, *c*, one at each end of its axial diameter, by which it is hung together with the said bells, and fastened securely to the center of said wheels D, and revolving with the same. The letter E represents the said tongue-coupling, which is provided with a suitable tongue or cord, by which the whole of said device may be readily drawn over the ground.

The whole of the material of my device is of suitable metal, and when the said bells are fastened within said annular yoke, the ball-clapper having previously been placed within the bells, the said yoke hung by its trunnions upon the wheels, and the said tongued or corded coupling attached to said trunnions, all as aforesaid, and shown in the said drawings, my device is ready for operation, as follows:

When the said tongue or cord is drawn upon, the wheels D, being fastened to the trunnions *e*, are moved over the ground, and also revolve the bell-yoke C, which, in its turn, vertically and continuously upsets the bells A A′, which continuously upsetting drops the loose ball-clapper B from one bell-barrel into the other, thus causing a continuous chiming sound, the tone of which may be varied by the said bells being each set to a different note.

The said yoke may be modified in form, say into a very elongated ellipse, so that several bells may be fastened in pairs within it, and thereby a much more varied chime be effected.

It will be readily seen that the above device, by the aforesaid arrangement of parts, will produce much more useful and valuable results than those pertaining to a mere toy.

For instance, by hanging large bells in pairs, as herein described and shown, not only will a continuous and synchronous chime be produced, but also a continuous revolution of the bells themselves, for, being hung in equilibrium, or each bell balancing its opposite mate, a single exertion of power upon the bell-wheels will cause the said revolutions to continue, by momentum, for a considerable period of time.

Again, the ball-clappers, which may be made of very hard wood for large bells, being perfectly loose and free within the barrels of the bells, will never fall successively

in the same place, thus not only preventing the usual wear of a fixed clapper within the sound-bow of the bells, but the liability to sooner or later crack the bell or change its tone; therefore,

What I claim as my invention, and desire to secure by Letters Patent, is—

The two separate bells A A′, inclosing the loose ball-clapper B, and arranged by their ears *a* within the annular yoke C, the said yoke fastened by the trunnions *c* to the centers of the wheels D, substantially as and for the purposes specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

CHAS. A. BAILEY.

Witnesses:

C. H. SELDEN,

JOSIAH ACKLEY.