

(No Model.)

S. A. GALPIN.
CLOCK BELL.

No. 573,778.

Patented Dec. 22, 1896.

Fig. 1

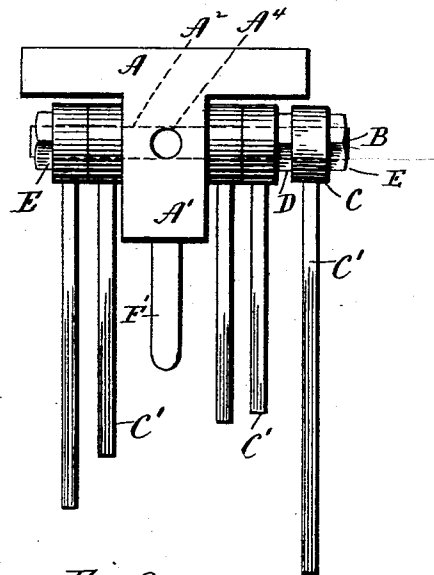
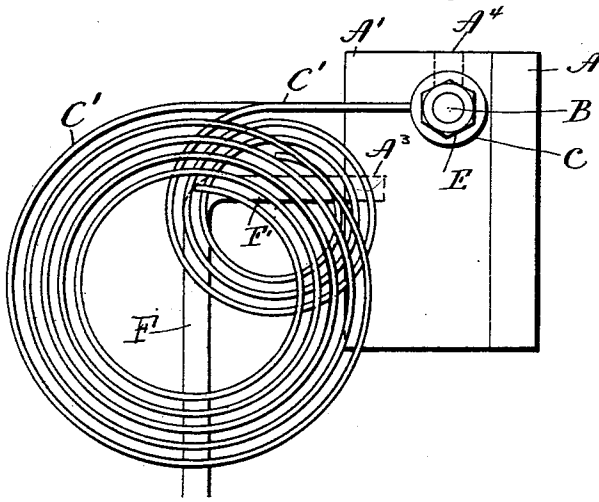


Fig. 2



Witnesses
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UNITED STATES PATENT OFFICE.

SAMUEL A. GALPIN, OF NEW HAVEN, CONNECTICUT, ASSIGNOR TO THE
NEW HAVEN CLOCK COMPANY, OF SAME PLACE.

CLOCK-BELL.

SPECIFICATION forming part of Letters Patent No. 573,778, dated December 22, 1896.

Application filed May 18, 1896. Serial No. 591,920. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL ARTHUR GALPIN, of New Haven, in the county of New Haven and State of Connecticut, have invented a new Improvement in Clock-Bells; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a plan view of a bell constructed in accordance with my invention; Fig. 2, a view thereof in side elevation.

My invention relates to an improvement in clock-bells of the so-called "cathedral-gong" type, the object being to provide simple, compact, and effective means for mounting a plurality of wire bells, each producing a different tone from the other and designed to be struck by a corresponding number of hammers, with the production of chiming effects.

With these ends in view my invention consists in a clock-bell having certain details of construction and combinations of parts, as will be hereinafter described, and pointed out in the claims.

In carrying out my invention I employ a heavy cast-metal base or sounder consisting of a body A and a centrally-arranged heavy rib A', projecting from one face thereof. This rib is constructed near its upper end with a transverse opening A² for the reception of a shaft B, the ends of which project on opposite sides of the rib for the reception of the collets C, to which the outer ends of the wire bells C' are attached.

If desired, the collets may be separated from each other by washers D, slipped over the ends of the shaft B and interposed between the said collets. The said collets are retained upon the shaft by means of nuts E, applied to its threaded ends. The bells themselves, it will be observed, are located in parallel vertical planes and are sufficiently separated from each other to permit them to be struck conveniently and without danger of confusion. By tightening the nuts E it is apparent that the whole organization may be solidified and unified, so that all of the bells

will have a virtually solid connection with the sounder or base.

By arranging the bells in the manners shown one modifies the tone of another, so that the tones produced by the series are very harmonious. The sounder or base may be supported by means of a rod F, having its upper end bent at nearly a right angle to form a supporting-arm F', the end of which is threaded for introduction into a threaded opening A³, formed in the edge of the rib A', which is also provided in its outer end with an opening A⁴ for the reception of the threaded end of the arm F' in case it is desired to support the bell in a different position.

It is apparent that in carrying out my invention some changes may be made from the construction herein shown. I would therefore have it understood that I do not limit myself thereto, but hold myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of my invention.

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

1. In a clock-bell, the combination with a base or sounder having a heavy rib, of a shaft mounted in the said rib and projecting beyond the opposite faces thereof, and a plurality of wire bells connected with the projecting ends of the said shaft, and standing in parallel planes.

2. In a clock-bell, the combination with a sounder having a heavy rib, of a shaft mounted in the said rib and projecting beyond the ends thereof, a plurality of wire bells connected with the projecting ends of the said shaft through collets attached to their outer ends, means applied to the ends of the shaft for firmly securing the bells thereto, and a supporting device adapted to be connected with the sounder for supporting the sounder and hence the complete bell.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

SAML. A. GALPIN.

Witnesses:

EUGENE CARTIER,
A. S. LANDRY.