

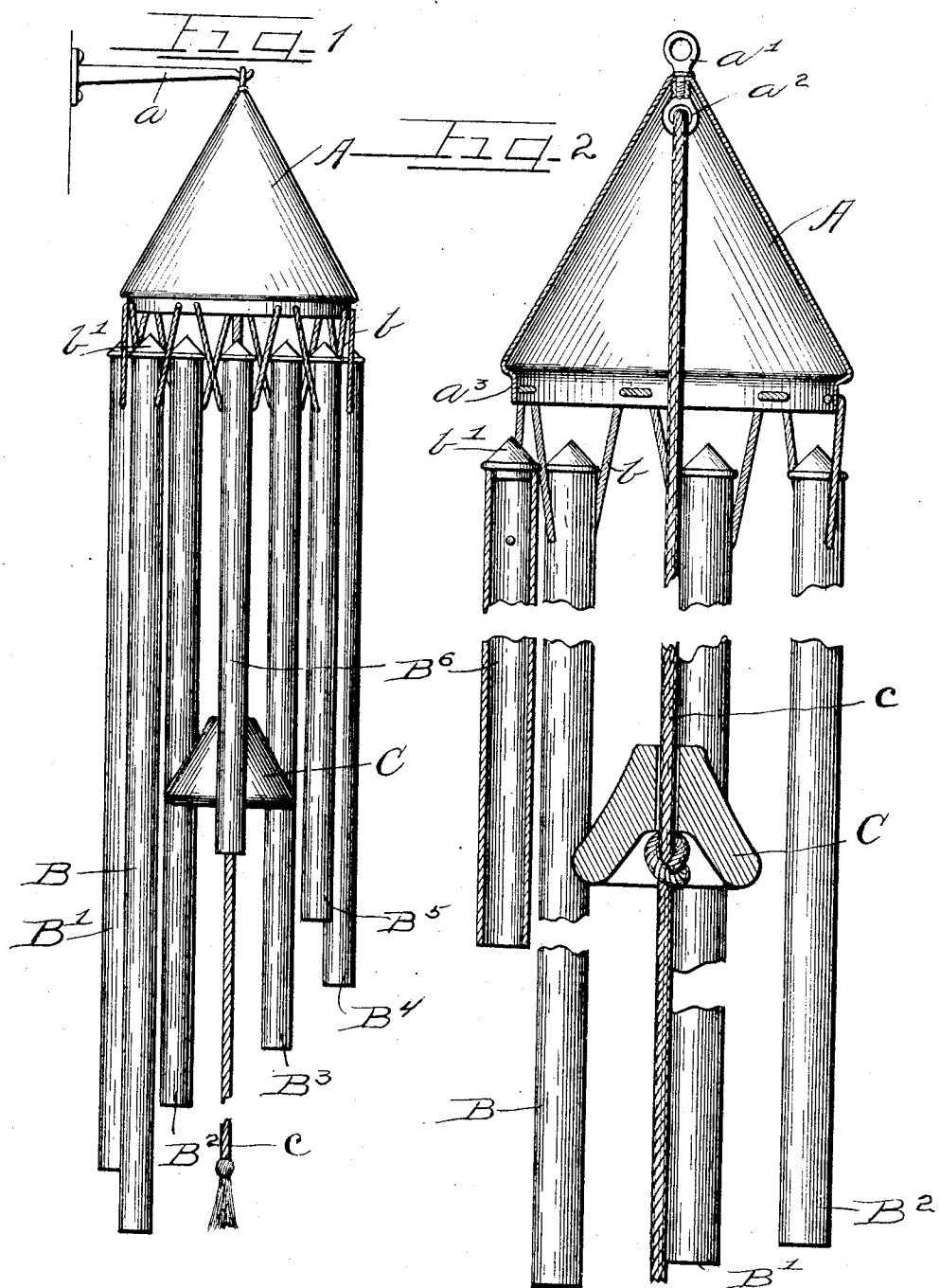
No. 864,461.

PATENTED AUG. 27, 1907.

H. GIBBS.

CHIME.

APPLICATION FILED APR. 20, 1906.



WITNESSES

J. W. Angell.
W. W. Withersbury

INVENTOR
Henry Gibbs
BY Charles E. Hill, ATTORNEY

UNITED STATES PATENT OFFICE.

HENRY GIBBS, OF AUSTIN, ILLINOIS.

CHIME.

No. 864,461.

Specification of Letter Patent.

Patented Aug. 27, 1907.

Application filed April 20, 1906. Serial No. 312,797.

To all whom it may concern:

Be it known that I, HENRY GIBBS, a citizen of the United States, and a resident of the city of Austin, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Chimes; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates more particularly to chimes adapted for use for dining room bells or for use wherever signals of a pleasing and musical character are desirable.

The object of the invention is to afford a neat, compact and ornamental device adapted to be hung or supported from a suitable bracket and which though occupying a very small space is capable of producing any desired number of different musical tones thus enabling the chime to be used for many different purposes which a soft musical tone is desirable.

It is also an object of the invention to provide in combination with the pipes affording the different tones a metallic bell on which said pipes are supported and which serves to intensify and improve the quality of said tones.

The invention consists in the matters hereinafter described and more fully pointed out and defined in the appended claims.

In the drawings: Figure 1 is a view in side elevation of a device embodying my invention. Fig. 2 is an enlarged central vertical section thereof showing some of the pipes broken.

As shown in the drawings: A indicates a bell of any suitable sonorous metal or other suitable material and which may be spun metal or cast bell metal and as shown is conical in form. Said bell is adapted to be supported from a bracket arm *a* secured upon a wall or other suitable support and which engages in an eye *a'* secured at the apex of said bell, and which as shown has threaded engagement through the apex of said bell in a nut provided with an eye *a''* which is secured within the apex of the bell. Said bell is provided at its bottom with a peripheral intumed flange the edge of which are turned vertically downward as indicated by *a'''*, and said flange is provided with apertures arranged in pairs at equal distances around its periphery adapted to permit a cord *b*, to be laced therethrough and which affords between the pairs of apertures in said rim and flange downwardly extending loops. On each of said loops is supported a tube or pipe B to B⁶ inclusive which are apertured transversely near their upper ends to receive said cord. Any desired number of said pipes are used and the same are supported at equal distances apart around the periphery of said bell and are constructed of any suitable sonorous metal and may be of

the same or different diameter and vary in length each to afford a different musical tone. Said variations in musical tones may be afforded by varying the diameter of the pipes only or by varying both the diameter and the length or by varying the length only as shown in the drawings. As shown the upper end of each pipe is closed by a conical metallic cap *b'* which affords an ornamental finish for the pipe and also greatly improves the tone. Said caps are each provided with a flange beneath the same which fits in the pipe whereby the same may be secured in place.

Secured at one end in the eye of the nut *a''* is a relatively large cord *c* preferably of a length to extend somewhat below the lower end of the longest pipe and supported thereon intermediate the pipes in a hammer C, which as shown is conical in shape and provided at its base with rounded edges for contact with the pipes.

The operation is as follows: The chimes suitably supported as upon the bracket *a* or in any other convenient manner is sounded by vibration of the cord *c* and bringing the hammer C into contact either with a selected pipe or with the pipes indiscriminately thus enabling a selected tone to be produced or a medley of tones as desired. The bell A above the pipes serves to some extent to concentrate the tone from the pipes and owing to its own sonorous qualities serves to augment the vibrations and improve the quality and furthermore affords a desirable support for the pipes enabling the same to be arranged about a common center permitting the hammer when swung on its cord to contact any or all of said pipes at will.

While I have described my invention as comprising a conical bell it is obvious that the bell may be differently formed and if preferred the pipes may be greatly increased in number or may be of any desired number, length or diameter, and various details of construction may be modified without departing from the principles of this invention.

I claim as my invention:

1. The combination with a sonorous bell, of a plurality of musical pipes adapted each to respond to a different tone and suspended about the rim of said bell and a hammer positioned centrally of said pipes and adapted to be brought into engagement with any or all of the same.
2. A device of the class described embracing a bell, a plurality of pipes loosely supported at the rim thereof, said pipes adapted to respond each to a different musical tone, a cord depending from the center of the bell, a hammer thereon adapted to be swung into engagement with any of said pipes.
3. In a device of the class described, a bell, an eye provided at the top thereof externally for supporting the bell, an eye within the bell for supporting the hammer, a plurality of pipes adapted to respond to different musical tones and supported around the periphery of the bell, in position to be contacted by said hammer when swung.
4. A device of the class described embracing a bell having an intumed and downwardly turned flange at its pe-

- riphery, and apertured to provide a plurality of pairs of apertures around its periphery, a cord threaded through said apertures and affording loops between each pair of apertures, a pipe adapted to respond to a definite musical tone supported on each loop and closed at the top, a hammer supported axially within the bell and between the tubes or pipes.
- 5 5. A bell of the class described provided with loosely supported musical pipes arranged around its periphery, a hammer supported axially of the bell and adapted to contact the pipes, said pipes being each closed at their upper ends.
- 10 6. A chime comprising a bell having pairs of apertures in its periphery and spaced at equal distances apart, a cord threaded therethrough and having depending loops, tubes supported by each loop and a removable cap for each tube.
- 15 7. A device of the class described comprising a bell and a plurality of tubes supported thereby.
- 20 8. A bell comprising a bell shaped top having a perpendicular rim, a plurality of tubes, means supporting said tubes from the rim, and means engaged to the top adapted to support the bell.
9. A device of the class described comprising a sonorous bell, pipes supported thereby and each adapted to produce different tones and means adapted to contact with one or more pipes at a time.
- 25 10. A device of the class described embracing different sized tubes arranged concentrically, means connected therewith adapted to increase the tone of said tubes and a centrally suspended hammer.
- 30 11. A device of the class described embracing tubes, a cap on each tapering to a point, and a support from which said tubes are suspended said support tapering to a point at one end.
- 35 12. In a device of the class described the combination with a bell of tubes engaged thereto and out of contact therewith and with each other and a hammer adapted to contact said tubes successively or to contact several tubes simultaneously.
- 40 In testimony whereof I have hereunto subscribed my name in the presence of two subscribing witnesses.
- HENRY GIBBS.
- Witnesses:
C. W. HILLS,
WM. C. SMITH.