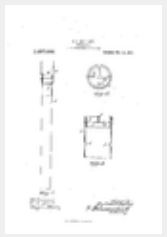
Google Patents

Tubular bell.

Images (1)



Classifications

G10K1/066 Devices in which sound is produced by striking a resonating body, e.g. bells, chimes or gongs the resonating devices having the shape of a bell, plate, rod, or tube electrically operated the sounding member being a tube, plate or rod

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US1057003A
United States

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Inventor: Rowland H Mayland

Current Assignee : Individual

Worldwide applications

1910 • ~~US~~

Application US56139710A events

1910-05-14 • Application filed by Individual

1910-05-14 • Priority to US56139710A

1913-03-25 • Application granted

1913-03-25 • Publication of US1057003A

1930-03-25 • Anticipated expiration

Status • Expired - Lifetime

Info: Cited by (2), Similar documents, Priority and Related Applications

External links: USPTO, USPTO PatentCenter, USPTO Assignment, Espacenet, Global Dossier, Discuss

Description

R. H. MAYLAND.

TUBULAR BELL.

APPLIOATION FILED MAY 14, 1910.

1,057,003, Patented Mar. 25, 191s.

ROWLAND H. MAYLAND, OF FREEPORT, NEW YORK.

TUBULAR BELL.

Specication of Letters Patent.

Patented Mar. 25,1913.

Application mea May 14, 1910. seriaino. 561,397.

T all whom t may concern Be it known that I, ROWLAND H. MAY- L'AND, a citizen of the United States, residing at Freeport, county of Suffolk, and State of New York, have invented certain new and useful Improvements in Tubular Bells, of which the following is a clear, full,

- musical note.

The particular object of this invention is to provide a cheap and simple tube of comparatively thin` tubing, thus reducing the cost of the same without detracting from the character of tone emitted by the tube.

In carrying out this invention I provide a non-compressible plug of material thickness, and wedge the same tightly into one end of the tube. I preferably form such plug with tapered sides, so that it may be forcibly driven into place, expanding the tube where it is thus inserted, to cause the tube to be grasped in a strong vise-like grip against all liability of dislocation due to the vibration resulting from the use of the tubular bell. I prefer to form such plug not only with tapered sides, but with an open center provided with strong substantially non-compressible bridge members or webs, which I so locate in the tube with relation to its hanging cord, that a hammer when used midway between the hanging cord will strike the-tube adjacent to one end of such bridges, thereby safely guarding against the setting up of a vibration which will produce overtone, and whistling, which is a source of trouble in light thin tubes.

The scope of my invention will be pointed out in the claims.

In the accompanying drawings, Figure 1 is a View partly in section of one of my improved tubular bells. Fig. 9. is a top plan thereof. Fig. 3 is an enlarged central sectional view with the taper exaggerate-d.

In the drawings, figure l represents a tube of comparatively slight thickness, pr-

vided with openings Q, through which a suspending means, such as the silken Cord 8 shown, is passed. The non-compressible overtone and whistling-preventing plug 4 is provided with an annular part 5, having a tapered outer side. This plug 4 may well be a casting, and in view of its applicability for securing in place, it need not be specially machined, for as it is tapered, it is adapted to be forced into the end of the tube with substantial pressure, slightly eX- panding the same to produce the vise-like grip, causing the tube to conform to the inequalities of the surface of the casting. The plug 4 is preferably provided with a pair of right-angled cross bridges or ribs 6 and 7. These may not be of the same depth as the collar 5. I prefer to so place these cross ribs in the tube that there will be one at right angle and one parallel with the cord passing through the holes 2 of the tube. This places one of the ribs in the direct line for the stroke of the hammer, for to properly strike a tubular bell it should be struck so that it may freely swing on the axis of the cord.

I am aware that it has been suggested heretofore not only to load the top of the tube to prevent overtone, but that it has also been proposed to reinforce the interior of a tube of this description, and I do not claim such invention broadly.

Vhat I do claim however, and desire to secure by United States Patent, is:

l. The herein described tubular bell of comparatively thin tubing, a tapered open plug carried by saidv tubing at one end thereof, a plurality of ribs extending from the wall of said plug to the center thereof, the depth 0f said ribs being less than the depth of said plug.

2. The herein described tubular bell of comparatively thin tubing, a tapered open plug carried by said tubing at one end thereof, a plurality of ribs extending from t-he wall of said plug to the center thereof, the depth of said ribs being less that the depth of said plug, said tubing 'being provided with openings adapted to receive a suspending element, said openings being disposed in parallelism with two of said ribs.

3. The herein described tubular bell 0f Signed at Brooklyn, New York, this 12th thin tubing, an open tapered plug of greater day of May, 1910.

external diameter than the .internal diamy T Y l eter -of the tubing carried by vthe tubing at ROVVLABD H" MAYLAND 5 one end thereof, a` plurality of ribs eXtend-
Vitnesses:

ing from the wall of said plug to .thefeenter. F. -WARREN V-RIGHT, thereof. EDWIN S.`IVIAYLAND.

Copies of this patent may be obtained for ve centsleaeh, by addressing the Commissioner of Patents,

' fNvashilgtongfDCP

Cited By (2)

Publication number	Priority date	Publication date	Assignee	Title
US2820431A *		1958-01-21		Support for resonant sounding tubes
AT390152B *	1987-05-26	1990-03-26	Rivadeneira Leonardo	Tubular glockenspiel with striking instrument

Family To Family Citations

* Cited by examiner, † Cited by third party, ‡ Family to family citation

Similar Documents

Publication	Publication Date	Title
US1108922A	1914-09-01	Hanger-bolt.
US1262515A	1918-04-09	Hammer.
US734326A	1903-07-21	Device for fastening metal, &c., to stone.

US1043123A	1912-11-05	Call for ducks.
US813853A	1906-02-27	Animal-call.
US637261A	1899-11-21	Multiphone.
US782290A	1905-02-14	Boiler-patch.
US700850A	1902-05-27	Musical ball.
US568816A	1896-10-06	Tubular bell
US1447732A	1923-03-06	Hammer
US478933A	1892-07-12	Musical instrument
US1026466A	1912-05-14	Metal piano-brace.
US750536A	1904-01-26	Expansion-bolt
US523955A	1894-07-31	James p
US562581A	1896-06-23	Hammer
US596249A	1897-12-28	Sonnette
US981863A	1911-01-17	Bolt-anchor.
US888312A	1908-05-19	Drum.
USRE12938E	1909-04-13	Piano-age
US1081168A	1913-12-09	Baton, staff, or cane.
US360005A	1887-03-29	Banjo
US507911A	1893-10-31	John mcarthtjr jones
US661946A	1900-11-20	Beam-supporter.
US756930A	1904-04-12	Drum-snare brace.
US574384A	1897-01-05	Ear-trumpet

Priority And Related Applications

Priority Applications (1)

Application	Priority date	Filing date	Title
US56139710A	1910-05-14	1910-05-14	Tubular bell.

Applications Claiming Priority (1)

Application	Filing date	Title
US56139710A	1910-05-14	Tubular bell.

Concepts

machine-extracted

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