Aug. 10, 1926. 1,595,359

H. J. SCHLUTER

MUSICAL INSTRUMENT

Filed June 3, 1925

Fig. 1.

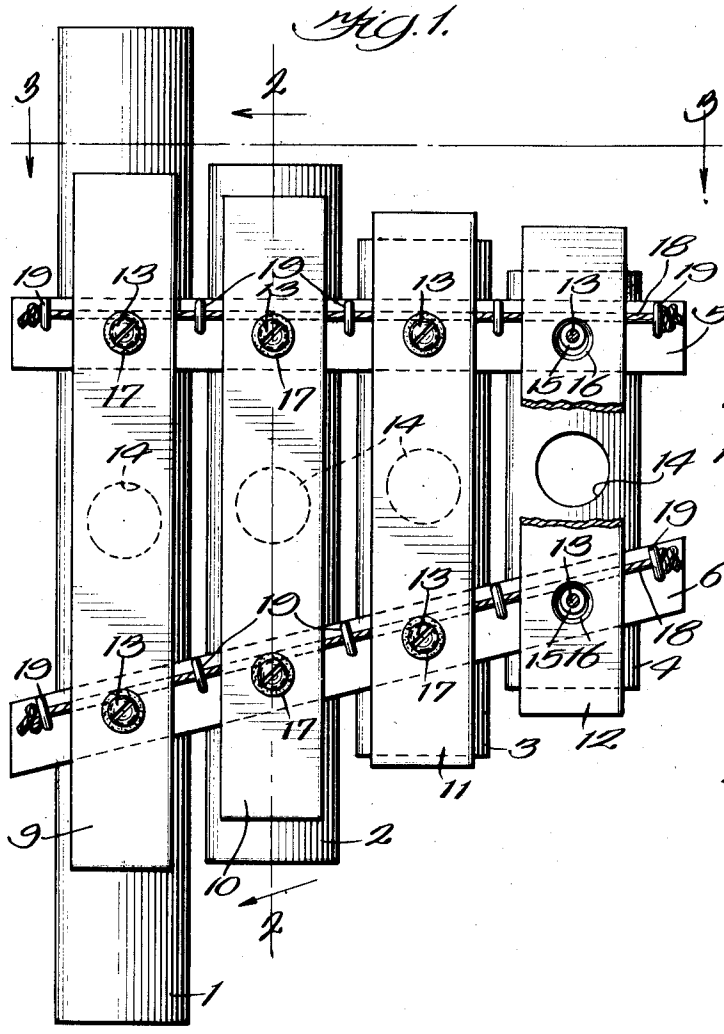


Fig. 2.

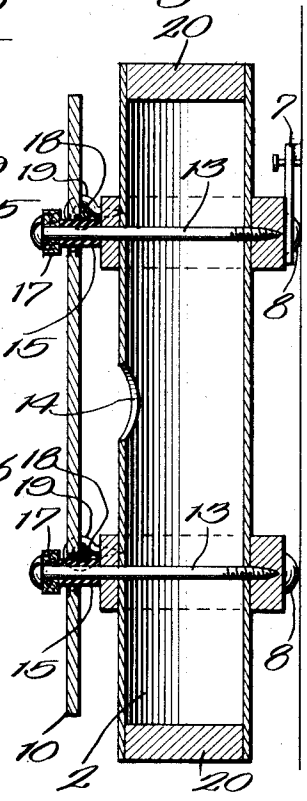
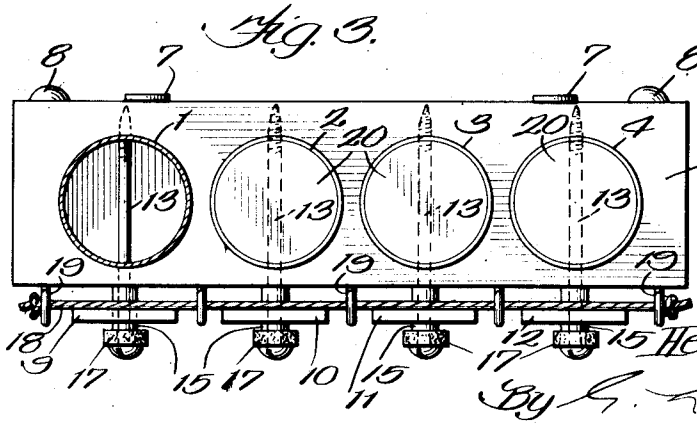


Fig. 3.



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UNITED STATES PATENT OFFICE.

HENRY J. SCHLUTER, OF CHICAGO, ILLINOIS, ASSIGNOR TO J. C. DEAGAN, INC., OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

MUSICAL INSTRUMENT.

Application filed June 3, 1925. Serial No. 34,573.

My invention relates to musical instruments of the class employing sounding bars and tubular resonators in conjunction with the bars. My invention has for its object the construction of musical instruments of this class which is simple and very cheap.

In carrying out my invention the tubular resonators also constitute a part of the framework. To this end I employ two rails wider than the diameters of the resonators and formed with holes therein through which said resonators are passed, these resonators and rails being held in fixed assembly whereby the resonators and rails constitute the framework for the instrument and upon which framework the sound producing bars are suitably supported in relation to the resonators that are provided therefor. In the further embodiment of the invention, rods, preferably in the form of nails, are passed diametrically through the resonators and into the rails whereby the fixed relation of the resonators and rails is assured, these rods projecting beyond the rails to be in supporting relation to the sound producing bars.

The invention will be more fully explained in connection with the accompanying drawing in which Fig. 1 is a view in elevation illustrating a set of chimes constructed in accordance with the preferred embodiment of the invention; Fig. 2 is a sectional view on line 2—2 of Fig. 1; and Fig. 3 is a sectional view on line 3—3 of Fig. 1.

The musical instrument illustrated is inclusive of a plurality of tubular resonators 1, 2, 3 and 4, which are assembled with the rails 5 and 6, these rails having holes therein in which the resonators are snugly received. These rails are larger in diameter than the diameters of the resonators so that the rails will completely surround the resonators, whereby suitable backing is afforded at the rear of the instrument to accommodate hangers 7 and the distance preserving knobs 8, and whereby the sound producing bars 9, 10, 11 and 12 may be suitably supported in front of the instrument and at suitable distances away from the resonators.

To assure fixed relation between the rails and the resonators I pass assembling rods 13 diametrically through the resonators and into the rails. These rods may be in the form of elongated screws entering the rails to the rear of the resonators and projecting forwardly from the rails to a sufficient extent to support and position the bars a suitable distance in front of the resonators which are provided with sound receiving and emitting openings 14. Sleeves 15 of rubber surround the shanks of the screws, the sound producing bars having holes 16 therein through which the screws and the surrounding sleeves pass. Washers 17 are interposed between the heads of the screws and the outer ends of the sleeves 15, these washers being of sound deadening material, such as rubber, and being larger than the holes 16 so that the bars can not work forwardly into contact with the screw heads. It is desirable to prevent the bars from contacting with the rails, that are preferably of wood, and to this end I interpose strings 18 of suitable fibre between the bars and the rails. These strings are desirably passed through screw eyes 19 that are screwed into the rails, the strings being notched at their ends and thereby held sufficiently taut to prevent the bars from reaching the rails.

In the preferred embodiment of the invention the resonators, instead of being metallic as usual, are made of fibre, although the invention is not to be limited to non-metallic resonators. The ends of the resonators, where the resonators are to be closed, are desirably plugged shut by means of wooden stoppers 20.

Changes may be made without departing from my invention.

Having thus described my invention I claim:

A musical instrument including a plurality of tubular resonators; rails carrying said resonators and which are wider than the diameters of the resonators and formed with holes therein through which said resonators are passed; metallic assembling rods extending diametrically through said resonators and into said rails, these assembling rods projecting beyond said rails upon one side of the instrument; and sounding bars having holes therein which receive the portions of the rods which project beyond said rails.

In witness whereof, I hereunto subscribe my name.

HENRY J. SCHLUTER.