April 5, 1927. 1,623,133

A. T. PETRIE

SPINNING DEVICE

Filed Jan. 30, 1926

Fig. 1.

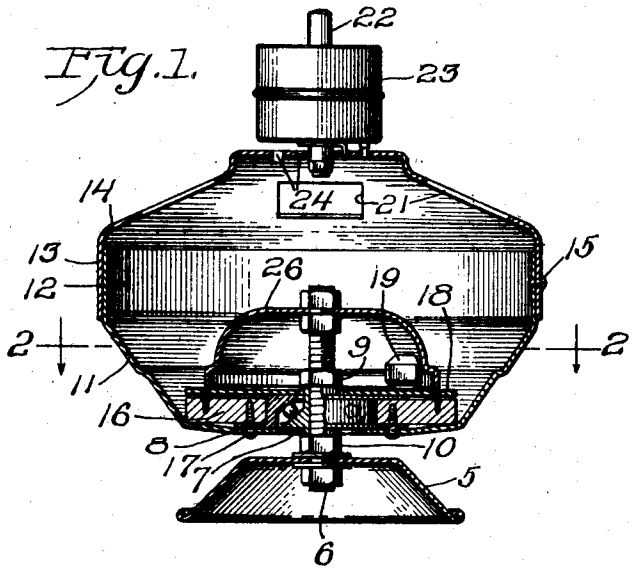
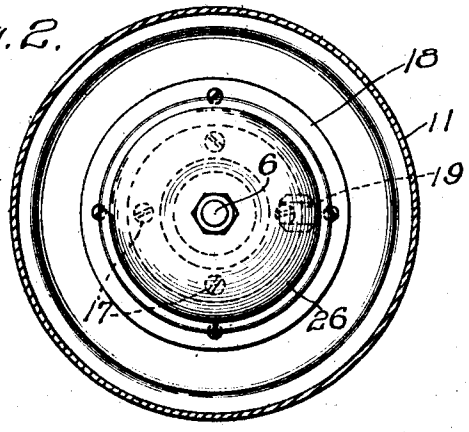


Fig. 2.



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UNITED STATES PATENT OFFICE.

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SPINNING DEVICE.

Application filed January 30, 1926. Serial No. 84,805.

This invention relates to spinning devices, such for example as tops, and particularly to devices of this class of the musical type, employing means for producing sound when the device is in operation; and the object of the invention is to provide a device of the class described employing a comparatively wide base or support adapted to be placed on a table, floor or other surface and in connection with which the rotatable or spinning part of the device is coupled and operates; a further object being to provide a spinning body rotatable on said base or a spindle carried thereby, and including sound producing means, part of which is operated by the spinning body, and the other part of which is supported on and held stationary by said spindle; a further object being to provide a spinning body in the general form of a top, the upper end portion of said body or the cover therefor being provided with apertures through which the sound may be passed; a still further object being to provide means cooperating with the spinning body for spinning or operating the same; and with these and other objects in view, the invention consists in a device of the class and for the purpose specified which is simple in construction and operation, efficient in use, and which is constructed as hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which:—

Fig. 1 is a transverse, sectional view through a spinning device made according to my invention; and,

Fig. 2 is a partial section on the line 2—2 of Fig. 1.

In practice, I provide a base or support 5 preferably in the form of an inverted cup-shaped body having outwardly and downwardly flared walls, and to the top of the base is secured a spindle 6 which projects thereabove. The inner face 7 of a ball bearing 8 of any conventional form is clamped between nuts 9 and 10 on the spindle 6 which is threaded to receive the nuts 9 and 10. Mounted in connection with the outer race or casing of the bearing 8 is the body 11 of the spinning device, said body being cup-shaped in form and having an outwardly and upwardly flared wall terminating in a straight annular portion 12 to receive a corresponding straight portion 13 on the cover part 14 for the body 11, said cover part being secured in position by screws 15 or in any other manner.

Mounted within the body 11 and encircling the bearing 8 is a comparatively heavy ring 16, which may be composed of wood or metal, and into which the screws 17 for retaining the bearing 8 in place, are passed, said screws also passing through the body 11. Secured to the top of the ring 16 is a disk 18 preferably composed of fibrous material, and on which a movable sound producing body 19 is placed, said body preferably having many flat surfaces about its periphery for the reason hereinafter stated.

Mounted upon the spindle 6 within the body 11 is a bell 26 of common form, and such as is employed in house bells, bicycle bells and similar sounding devices, and the bell 26 is so mounted that the lower edge thereof is in spaced relation with reference to the fibre disk 18 and also arranged to contain the sound producing device 19 within the bell as clearly seen in Fig. 1 of the drawing.

The cap or cover 14 is provided with spaced apertures 21 which may be of any shape or form, and arranged in any desired manner, and through which the sound from the bell or gong 26 is adapted to pass out through the spinning device as will be apparent. Centrally of the top of the cap or cover 14 is secured an upwardly projecting stub shaft 22 upon which is adapted to be mounted the usual spring-wound spinner 23 commonly employed in tops well known upon the market. The devices of this spinner engage the usual apertures 24 provided in the top flat face of the cap or cover 14 and encircling the stub shaft 22.

From the foregoing, it will be apparent that the body 11, together with the cap or cover 14 and the parts 16 and 18 are rotatable on the spindle 6, while the bell 26 is held stationary on said spindle, whereby when the spinning device is rotated by winding the spinner in the usual manner and releasing the same by downward pressure upon the protruding end of the stub shaft 22 and upward pull on the spinner 23, the body 11, cap 14 and connecting parts will rotate on the spindle 6 or the ball bearing 8,

provided. In this operation, the sound producing device 19, by virtue of its many flat surfaces, weight and frictional engagement with the fibrous disk 18, will be thrown vigorously and by centrifugal force against the bell 26 to repeatedly sound this bell throughout the entire period of rotation or spinning of the device. By providing the base or support 5, on which the device spins, I eliminate the present objection to spinning devices or tops, in that destruction to a floor, table or other surface is obviated, and no destruction can be caused in the operation of the device, and further, the sound producing qualities of the device are highly increased.

It will be understood that while I have shown a top body of specific form as well as a bell of one form and construction, it will be apparent that I am not necessarily limited to the shapes or forms of said parts, herein shown and described, nor am I necessarily limited to the specific manner of coupling the several parts of the device herein set out, and various other changes in and modifications of the construction herein shown and described may be made within the scope of the appended claims without departing from the spirit of my invention or sacrificing its advantages.

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

1. A spinning device comprising a base, a body rotatably mounted on said base, sound producing means supported on said base within said body, and a member supported on said body within said sound producing means, which in the rotation of said body will be moved into engagement with said sound producing means to actuate the same.

2. A spinning device comprising a base, a body rotatably mounted on said base, sound producing means supported on said base within said body, a member supported on said body within said sound producing means, which in the rotation of said body will be moved into engagement with said sound producing means to actuate the same, and means for rotating said body.

3. A spinning device comprising a base, a body rotatably mounted on said base, sound producing means supported on said base within said body, a member supported on said body within said sound producing means, which in the rotation of said body will be moved into engagement with said sound producing means to actuate the same, means for rotating said body, and a ball bearing on which said body rotates.

4. A spinning device comprising a spindle, a body rotatably mounted on said spindle, sound producing means within said body and fixed to said spindle and held stationary in the rotation of said body, and a member freely movable within said body and within the boundaries of said sound producing means and moved into engagement therewith by the rotation of said body.

5. A spinning device comprising a spindle, a body rotatably mounted on said spindle, sound producing means within said body and fixed to said spindle and held stationary in the rotation of said body, a member freely movable within said body and within the boundaries of said sound producing means and moved into engagement therewith by the rotation of said body, and said rotatable body having apertures through which the sound is adapted to pass.

6. A spinning device comprising a spindle, a body rotatably mounted on said spindle, sound producing means within said body and fixed to said spindle and held stationary in the rotation of said body, a member freely movable within said body and within the boundaries of said sound producing means and moved into engagement therewith by the rotation of said body, said rotatable body having apertures through which the sound is adapted to pass, and means whereby said body may be rotated.

7. A spinning device comprising a spindle, a body rotatably mounted on said spindle, sound producing means within said body and fixed to said spindle and held stationary in the rotation of said body, a member freely movable within said body and within the boundaries of said sound producing means and moved into engagement therewith by the rotation of said body, said rotatable body having apertures through which the sound is adapted to pass, means whereby said body may be rotated, and said spindle projecting through said body and a comparatively wide base secured thereto.

8. A spinning device comprising a spindle, a body rotatably mounted on said spindle, sound producing means within said body and fixed to said spindle and held stationary in the rotation of said body, a member freely movable within said body and within the boundaries of said sound producing means and moved into engagement therewith by the rotation of said body, said rotatable body having apertures through which the sound is adapted to pass, means whereby said body may be rotated, said spindle projecting through said body and a comparatively wide base secured thereto, and a ball bearing between the spindle and body and on which said body rotates.

9. A spinning device of the class described comprising a base, a spindle projecting upwardly through the central portion of the base, a body rotatably mounted on said spindle, said body being composed of separate parts, one of which constitutes a cap

or cover, a bell fixedly secured to the spindle and positioned within said body, a flat surface in said body in juxtaposition to and in spaced relation with said bell, and a freely movable member disposed between said flat surface and within the boundaries of said bell whereby, in the rotation of said body, said member is intermittently moved into engagement with said bell.

10. A spinning device of the class described comprising a base, a spindle projecting upwardly through the central portion of the base, a body rotatably mounted on said spindle, said body being composed of separate parts, one of which constitutes a cap or cover, a bell fixedly secured to the spindle and positioned within said body, a flat surface in said body in juxtaposition to and in spaced relation with said bell, a freely movable member disposed between said flat surface and within the boundaries of said bell whereby in the rotation of said body, said member is intermittently moved into engagement with said bell, and the cap of said body being apertured.

11. A spinning device of the class described comprising a base, a spindle projecting upwardly through the central portion of the base, a body rotatably mounted on said spindle, said body being composed of separate parts, one of which constitutes a cap or cover, a bell fixedly secured to the spindle and positioned within said body, a flat surface in said body in juxtaposition to and in spaced relation with said bell, a freely movable member disposed between said flat surface and within the boundaries of said bell whereby in the rotation of said body, said member is intermittently moved into engagement with said bell, the cap of said body being apertured, means on said body whereby the usual spinner may be coupled therewith for spinning said body on the spindle, and a ball bearing on said spindle on which said body rotates.

In testimony that I claim the foregoing as my invention I have signed my name this 28th day of Jan. 1926.

ALEXANDER T. PETRIE.