

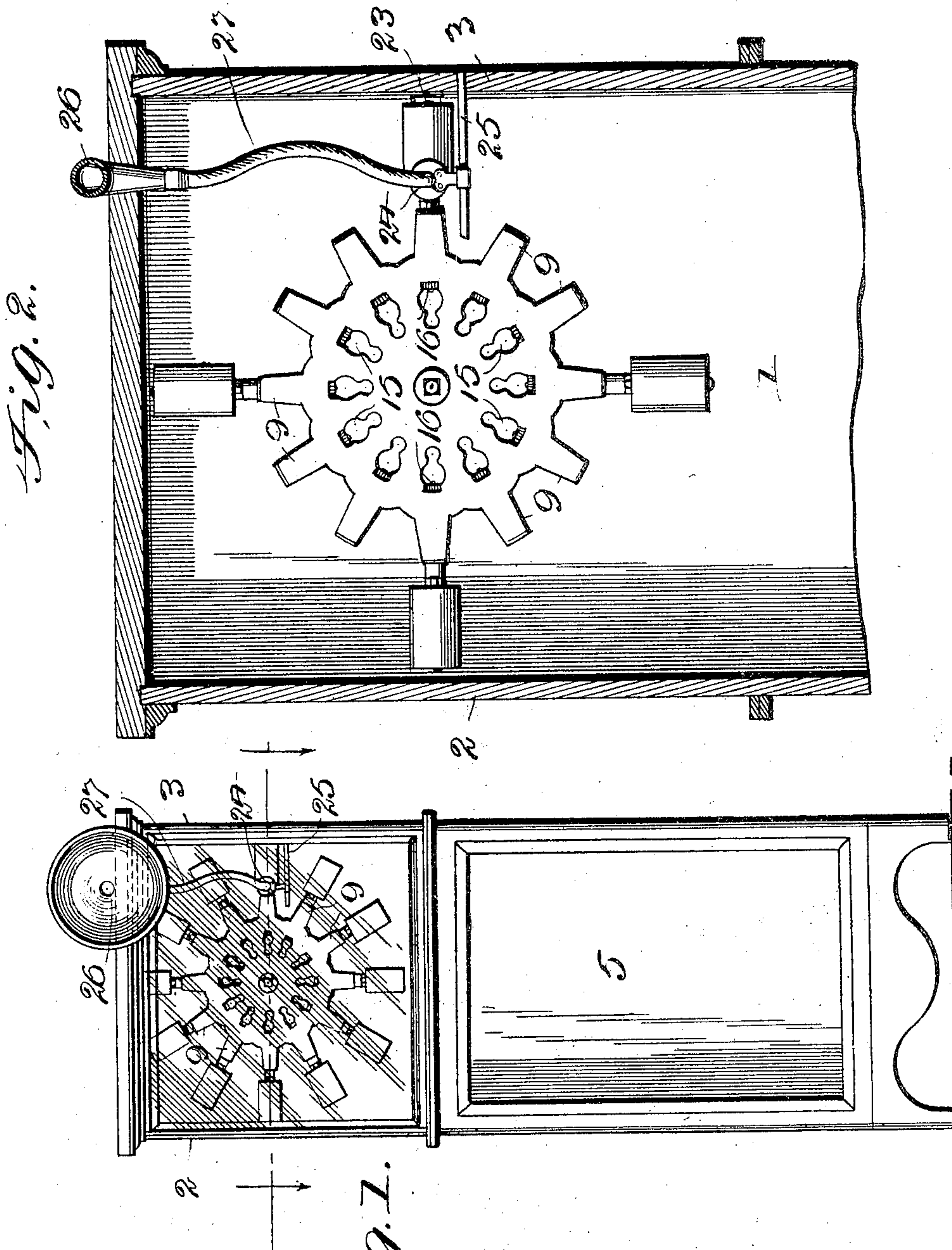
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G. W. GOMBER.  
TABLET CARRIER FOR TALKING MACHINES.

APPLICATION FILED JUNE 16, 1904.

2 SHEETS—SHEET 1.



Witnesses

*H. C. Barry.*

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*Fig. 1.*

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# UNITED STATES PATENT OFFICE.

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## TABLET-CARRIER FOR TALKING-MACHINES.

No. 798,034.

Specification of Letters Patent.

Patented Aug. 22, 1905.

Application filed June 16, 1904. Serial No. 212,842.

*To all whom it may concern:*

Be it known that I, GEORGE W. GOMBER, a citizen of the United States, residing at Conyngham, in the county of Luzerne and State of Pennsylvania, have invented certain new and useful Improvements in Tablet-Carriers for Talking-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to phonographs, and more particularly to a tablet-carrier for talking-machines whereby a plurality of tablets or mandrels are grouped together in one machine so that any preferred one of said tablets may be readily moved into coöperation with the reproducer; and my invention consists of certain specified details of combination and construction of parts, the preferred form whereof will be hereinafter set forth, and pointed out in the claims.

The main object of my invention, among others, is to provide a simple form of carrier adapted to hold any preferred number of tablets or tablet-receiving mandrels within a minimum amount of space.

Other objects will be hereinafter presented, and attention is called to the accompanying drawings, which are made a part of this application, and in which—

Figure 1 shows a front elevation of my talking-machine complete. Fig. 2 is a similar view, on a slightly-enlarged scale, a portion of the casing being shown in section. Fig. 3 is a horizontal section of my machine, taken on the median line of my tablet-carrier. Fig. 4 is a perspective detail view of one of the mandrel-carrying arms of my magazine.

Referring to the numerals on the drawings, 1 indicates the rear of the casing, while 2 and 3 designate the sides thereof, the front portion of the upper section of the casing being preferably of glass, as designated by the numeral 4, while the lower part of the casing 5 may be made of any preferred material and adapted to contain the motor, as will be obvious.

Inasmuch as the claims hereunto appended are predicated upon the specific form of carrier illustrated and such modifications and substitutes thereof as fairly fall within the purview of my invention, I deem it unnecessary to dwell at any length upon the coöperating ac-

cessories of the tablet-carrier—as, for instance, the speaker or the motor—and means for mounting said parts in their operative positions.

My tablet-carrier may be likened unto a wheel with a plurality of radiating arms or spokes, to which latter are operatively connected the tablet-mandrels and means for rotating the same from a common source of power. While, therefore, my tablet-carrier may comprise a hub-section, I have in the present instance shown a suitable piece of sheet metal 6, which is rotatably mounted upon a suitable axle or support, as indicated by the numeral 7, said axle or shaft 7 being properly connected to the casing in any preferred way so that the forward free end thereof will project outward in a horizontal plane to be received by an aperture in the carrier-plate or hub 6, it being understood that the carrier is so mounted upon the shaft that it may be freely rotated thereon in either direction, as by means of the band-wheel 8, secured to a sleeve-like extension of the hub or plate, said wheel being placed in communication with a belting leading to any suitable means (not shown) of preferably manual actuation.

In the present instance it will be observed that the periphery of the plate or carrier-body 6 is cut away at intervals, so as to form the radially-disposed arms or extensions 9, and, as illustrated in Fig. 4, the outer ends of said arms are bent at right angles to form the bearing bracket or seat 10, and a corresponding bracket or bearing seat 11 is struck up from the material of the plate to form the inner support for the bearing-sleeve 12, the extreme ends of the bearing-seats 10 and 11 being fashioned and properly bent so as to provide the set-screw seats 13 for accommodating the set-screws 14, whereby said sleeve is locked in place. It is obvious, however, that these bearing-seats may be independently formed and suitably connected with the carrying wheel or disk in any preferred way, as by rivets; but this construction is not shown in the drawings. By striking up the inner bearing 11 from the plate an opening 15 is formed, and this opening is utilized to accommodate the periphery of the gear 16, which is secured to the shaft 17, operatively mounted in the sleeve 12, the outer end of said shaft being of sufficient length to receive any preferred form of mandrel, as clearly shown, a



locking-collar and coöperating set-screw 18 and 19, respectively, being disposed upon the shaft 17 at the outer end of the sleeve 12, whereby said shaft will be held against longitudinal movement. Inasmuch as the plurality of gears 16 (there being one for each mandrel, as will be observed) are thus disposed so that they will be moved in a common radial path around the axial center of the carrier 6, it follows that a common driving-gear 20 may be employed to actuate all of said gears as they are successively brought into mesh therewith. I therefore mount the common driver 20 upon a suitable shaft 21, having bearings in supporting-brackets 22, secured to part of the casing, while the opposite end of the shaft or any intermediate part thereof may be provided with the driving-wheel 23, placed in connection with the motor, as by belting, sprocket-chain, or the like. (Not shown.)

In Figs. 2 and 3 it will be observed that a speaker (designated by the numeral 24) is operatively mounted upon a suitable carrier 25, connected to a convenient part of the casing, and that said speaker is disposed in direct communication with the horn 26, or a flexible tube 27 may be employed to form the connecting-link between said parts, as preferred. It is therefore obvious that any suitable means may be employed to coöperate with the adjusting-wheel 8 to rotate the carrier in either direction, and thus bring any preferred tablet on the carrier into coöperative relationship with the reproducer or speaker 24, and I deem it unnecessary to specifically set forth any means for accomplishing this result, reserving for a future application or applications such specific means which I may decide to adopt for this purpose or for better carrying out other operations of the machine.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a phonograph a carrier adapted to carry a plurality of tablets, each of the tablets being disposed with its axis radiating from the axis of the carrier.

2. A tablet-carrier having a plurality of rotatable mandrel-receiving spindles, radiating from a common center and traveling in a common path when the carrier is rotated, as and for the purpose set forth.

3. A tablet-carrier consisting of a disk or wheel like member 6 having a plurality of rotating arms radiating from a common center and traveling in a common path when the carrier is rotated, as set forth.

4. A tablet-carrier comprising a wheel having a plurality of rotatable tablet-receiving mandrels, the axes of which radiate from a common point and are designed to move in a common path as set forth.

5. A tablet-carrier having a plurality of rotatable mandrel-receiving spindles radiating from the periphery of the carrier and disposed

to move in the same path when the carrier is rotated as set forth.

6. In a phonograph, a carrier for tablets having a plurality of spindles, the axes of which radiate from a common center, each spindle having suitable bearings in the carrier and means whereby they may be driven from a common source of power as set forth.

7. A tablet-carrier comprising a disk; means to rotatably mount the same and a plurality of rotatable mandrels on the disk the axes on the mandrels radiating from the disk and additional means to rotate all of said mandrels from a common source of power, as set forth.

8. In a machine of the character specified, a carrier for tablets; a plurality of extensions each extension having a rotatable spindle mounted thereon and adapted to carry a tablet, the axes of the spindles radiating from a common center, as set forth.

9. A tablet-carrier for phonographs comprising a hub and a plurality of spoke-like members radiating from the hub each spoke-like member being adapted to rotate and carry a mandrel thereon whereby all the mandrels will be moved in a common path when the hub is rotated, the axes of the mandrels radiating from the same point as set forth.

10. A rotating carrier for tablets having a plurality of radiating rotatable tablet-receiving mandrels, the axes of which radiate at any preferred angle to the axis of the carrier as set forth.

11. In phonographs or talking-machines, a carrier adapted to hold a plurality of rotatable tablets, said carrier consisting of a disk-like member or hub 6, the axes of the tablets on the carrier radiating therefrom and being disposed at any desired angle relative to the axis of the carrier as and for the purpose set forth.

12. In a machine of the character specified, a tablet-carrier; consisting of a disk-like plate 6; a plurality of bearing-seats struck up from the plate and arranged in pairs; a sleeve secured to each pair of said seats; a shaft rotatably mounted in said sleeve and designed to receive upon its extended end a tablet-mandrel and means to rotate said shaft and additional means to rotate the carrier in either direction whereby the tablets on the mandrels will be moved in a common radial path as and for the purpose set forth.

13. In a phonograph, a tablet-carrier adapted to hold any desired number of tablets and consisting of a plate or disk 6; integral bearing-seats struck up near the edge of said plate; rotatable shafts operatively mounted in said seats and adapted to receive on their outer ends a tablet-mandrel; means to successively or selectively rotate said shafts as set forth.

14. In a phonograph a tablet-carrier adapted to hold any desired number of tablets and consisting of a plate or disk like member 6; bearing-seats carried by said plate; radial ro-



tatable shafts operatively mounted in said seats and adapted to receive on their outer ends a tablet-mandrel, and means to successively or selectively rotate said shaft as and for the purpose set forth.

15. In a phonograph a carrier rotatably mounted in position and provided with a plurality of rotatable tablet-mandrels the axes of which radiate from the periphery of the carrier, all of said mandrels being disposed to travel in the same radial path and having their axes at an angle to the axis of the carrier as set forth.

16. In a phonograph a tablet-carrier having a plurality of rotatable mandrels disposed to travel in a common radial path; the axes of

the mandrels radiating at any preferred angle to the axis of the carrier as and for the purpose set forth.

17. In a phonograph a carrier adapted to carry a plurality of tablets in a common radial path, each of the tablets being disposed with its axis radiating at an angle to the axis of the carrier as set forth.

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

GEORGE W. GOMBER.

Witnesses:

W. H. JENNISH,

C. W. ROBBINS.