June 23, 1931. H. HOLLERITH, JR 1,811,628

CASING COVER LOCKING DEVICE

Filed Sept. 1, 1928

Fig. 1.

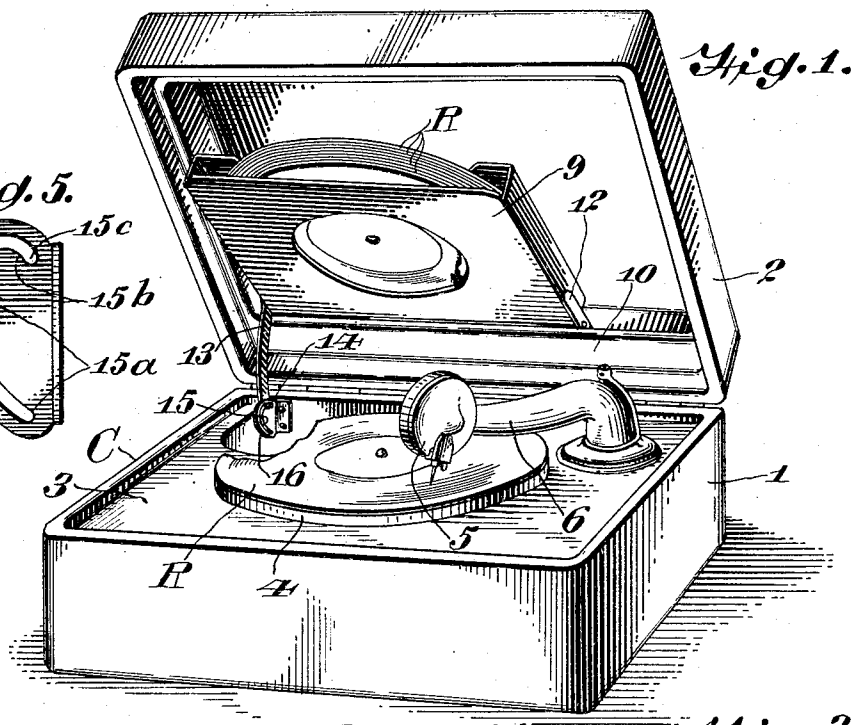


Fig. 5.

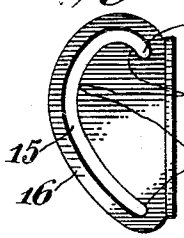


Fig. 2.

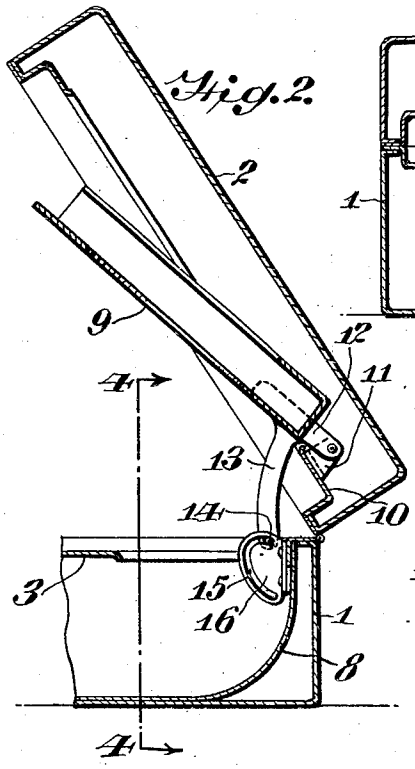


Fig. 3.

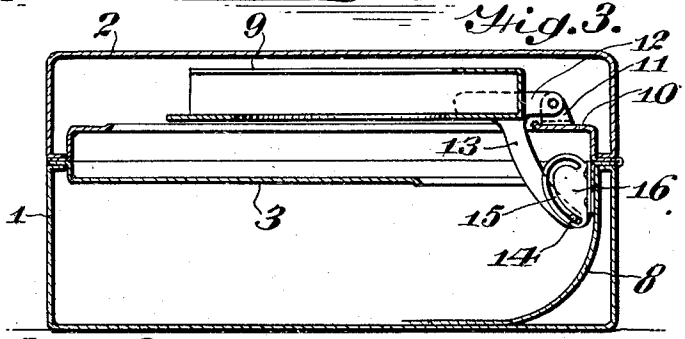
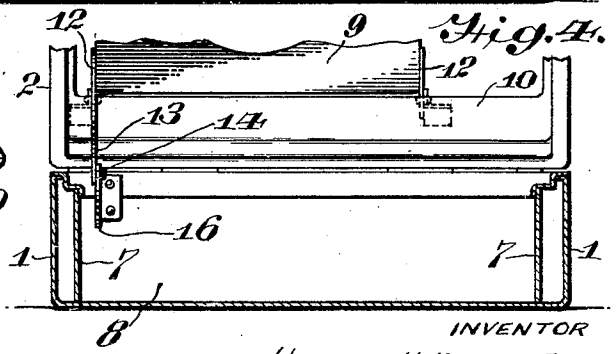


Fig. 4.



INVENTOR

Herman Hollerith, Jr.

BY

Lyman D. Oberlin

his ATTORNEY

Patented June 23, 1931 1,811,628

UNITED STATES PATENT OFFICE

HERMAN HOLLERITH, JR., OF RIVERTON, NEW JERSEY, ASSIGNOR TO VICTOR TALKING MACHINE COMPANY, A CORPORATION OF NEW JERSEY

CASING-COVER LOCKING DEVICE

Application filed September 1, 1928. Serial No. 303,418.

My invention relates to a device or mechanism for securing or retaining a casing cover or casing section in elevated position.

In accordance with my invention, a receptacle carried by a movable casing section comprises means for preventing movement of said section toward casing-closing position.

Further in accordance with my invention, the cover of a portable talking machine or phonograph casing is retained in elevated position by means comprised in or movable with a holder or receptacle for talking machine or phonograph records.

Further in accordance with my invention, a receptacle or carrier for phonograph or talking machine records is pivoted to the cover of a phonograph or talking machine and is provided with a device for moving the same with respect to said cover, said device comprising means for retaining said cover in an elevated position.

My invention resides in the apparatus and features of construction of the character hereinafter described and claimed.

For an illustration of one of the forms my invention may take, reference is to be had to the accompanying drawings, in which:

Figure 1 is a perspective view of a casing having associated therewith a device for retaining the casing cover in an elevated position.

Figures 2 and 3 are vertical sectional views, with parts omitted, of the structure shown in Figure 1.

Figure 4 is a vertical sectional view taken on the line 4—4 of Figure 2, and looking in the direction of the arrow.

Figure 5 is an enlarged elevational view of a part of the cover locking device.

In the form of my invention herein illustrated, there is shown a portable phonograph or talking machine which comprises a cabinet or casing C having a body or base 1 and a hinged or movable lid or cover 2.

The body comprises a horizontal member or motor-board 3 upon which is disposed or which supports suitable instrumentalities for the production of sound. As illustrated, the member 3 supports a turntable 4 for the reception of a phonograph or talking machine record R with which coacts the stylus or needle of a sound box 5, or equivalent, carried by an oscillatable tone arm or member 6 by which sound waves are directed beneath the member 3 where they pass through suitable horn structure, not shown, save for the terminal portion thereof which comprises, at the rear of the body 1, the spaced side walls 7, 7 having a curved rear wall 8 therebetween. From the aforesaid horn structure, the sound waves pass upwardly through an opening in the member 3 of nearly the same width as the body 1 and with the cover 2 occupying the position illustrated in Figures 1 and 2, said sound waves are thereby reflected or directed to some extent at least.

The lid or cover 2 forms a chamber of substantial depth for the reception of a carrier or container 9 adapted as illustrated in Figure 1, to receive a plurality of the records R. Spaced from the top wall of the cover 2, Figure 3, is a flange or shelf 10 movable with said cover 2 and having plurality of lugs or members 11 projecting therefrom. Secured to each side wall of the container 9 is a member or bracket 12, each pivoted to one of the aforesaid lugs 11 which are properly spaced with this end in view.

Formed integrally, preferably, with one of the brackets 12 is a member 13 carrying, adjacent its end removed from the container 9, a laterally projecting pin 14 received in a slot 15 formed in a plate or member 16 suitably secured, in the example shown, to the curved wall 8.

Referring particularly to Figure 5, the slot 15 of plate 16 comprises a portion 15*a* substantially concentric with respect to the pivot of the cover 2, a second portion 15*b* eccentrically disposed with respect to said pivot of the cover 2, and a third portion 15*c* forming a depression or hole into which the pin 14 may be moved to releasably hold the cover 2 in elevated position.

A phonograph or talking machine of the character herein described, ordinarily, is portable and may be carried from place to place as the occasion may demand. Accordingly the body 1 may be supplied with a handle, not shown, and a locking device, not

shown, may be utilized for temporarily retaining the cover 2 locked to the body 1, Figure 3.

Assuming that the parts occupy the position illustrated in Figure 3, after release of the aforesaid locking device, the cover 2 may be manually moved to the position shown in Figures 1 and 2. In so doing, the pin 14 first moves within the concentric portion 15*a* of slot 15 and, consequently, the container 9 moves with the cover 2 while maintaining substantially the relative position with respect thereto illustrated in Figure 3. During continued upward movement of the cover 2, pin 14 moves within the eccentric portion 15*b* of slot 15 and the container 9 is swung relative to said cover 2 into substantially the position illustrated in Figures 1 and 2, whereby the records R may be removed or replaced in the container 9 as desired. Eventually, during continued upward movement of the cover 2, pin 14 drops or passes into the depression 15*c* of slot 15 and, as a result, the cover 2 and container 9 are retained or locked in the position illustrated in Figures 1 and 2, this being the position wherein sound is produced by coaction of the sound box needle with a record on the turntable 4.

Thus, in accordance with my invention, the cover 2 and the container 9 are retained in open and accessible position by the same device or mechanism that swings or moves the container 9 with respect to the cover 2. When it is desired to restore the cover 2 to closed position, it is only necessary to exert slight manual pressure on the container 9 moving the same slightly toward the cover 2. In so doing, the pin 14 is removed from the depression 15*c* of slot 15 and, therefore, the various parts are free to return, under the influence of gravity, to the position illustrated in Fig. 3. During initial return movement, the eccentric portion 15*b* of slot 15 promptly withdraws the container 9 and the thereby-carried records within the cover 2 so that said container 9 does not contact with the turntable 4 when the cover 2 reaches its fully closed position.

Before the cover 2 is closed, the tone arm 6 should be positioned substantially parallel with the side walls of the body 1. When thus arranged, the cover 2 may be freely moved to closed position since, as illustrated, the receptacle 9 is disposed at one side of the cover 2 to provide a chamber therein for the reception of the tone arm 6.

What I claim is:

1. The combination with a casing comprising relatively movable sections, of a receptacle carried by one of said sections, means on one of said sections and means cooperating with said first named means and carried by said receptacle for preventing relative movement of said sections toward casing-closing position said means for preventing movement of said sections being released by movement of said receptacle with respect to said sections.

2. The combination with a casing comprising relatively movable sections, of a receptacle carried by one of said sections, and a device for effecting relative movement between said receptacle and said one of said sections during movement of the latter with respect to another casing section, said device comprising means normally preventing movement of one of said sections to casing-closing position and adapted on relative movement between said receptacle and said one casing section to release the latter.

3. In a portable phonograph comprising two hingedly connected sections, a receptacle for records pivotally mounted on one of said sections and movable with respect to said sections, means on one of said sections, and means connected to said receptacle and engaging said first named means, the aforesaid means cooperating to prevent relative movement of said sections when in open position and being releasable by movement of said receptacle to permit the closing of said sections.

4. The combination with a portable talking machine or phonograph casing comprising a base and a cover pivoted thereto, of a receptacle for phonograph or talking machine records pivoted to said cover, and a device for effecting relative movement between said receptacle and said cover during movement of the latter with respect to said base, said device comprising means normally preventing movement of said cover toward said base and adapted on relative movement between said receptacle and cover to release the latter.

5. The combination with a portable talking machine or phonograph casing comprising a base and a receptacle-like cover pivoted thereto, of a receptacle for phonograph or talking machine records pivoted within said cover, and a device for swinging said receptacle from said cover during movement of the latter from said base, said device comprising means for retaining said cover in an elevated position but releasing the same when said receptacle is swung into said cover.

6. The combination with a portable talking machine or phonograph casing comprising a base and a receptacle-like cover pivoted thereto, of a receptacle for phonograph or talking machine records pivoted within said casing, a member comprising a cam slot secured to said base, a member movable with said receptacle and coacting with said cam slot, and means comprising a depression in said slot in which said second named member engages for retaining said cover in an elevated position, said second named member being freed from said depression to release said cover by movement of said receptacle relative to said cover.

7. The combination with a portable talking machine or phonograph casing comprising a base and a receptacle-like cover pivoted thereto, of a receptacle for phonograph or talking machine records pivoted within said cover, a member comprising a cam slot secured to said base, a member movable with said receptacle and coacting with said cam slot, and means comprising a depression in said first named member for retaining said cover in an elevated position.

8. In a talking machine having a casing and a cover pivoted thereto, a record holder, a bracket secured to said holder and having a pair of arms, means pivotally connecting one of said arms to said cover, whereby said holder is pivotally mounted therein, a slotted member secured to said casing, and means on said other arm engaging said slotted member whereby said holder is moved with respect to said cover when said cover is moved, the slot in said member having a depression wherein said means engages to prevent closing of said cover.

9. In a talking machine having a casing and a cover pivoted thereto, a record holder, a pair of brackets secured to said holder and extending therefrom, means pivotally connecting the extending ends of said brackets to said cover, an arm secured to one of said brackets, a member secured to said cabinet and having a curved slot therein, said slot including a portion concentric with the pivotal axis of said cover and a portion eccentric therewith and having a depression, and means on said arm engaging in said slot, said means engaging said depression to prevent closing of said cover.

10. In a talking machine having a casing and a cover pivoted thereto, a shelf in said cover, a record holder, means pivotally connecting said holder to said shelf, an arm secured to said holder, a slotted member secured to said casing, and means on said arm engaging the slot in said member whereby said holder is moved with respect to said cover when said cover is moved.

11. In a talking machine having a casing and a cover pivoted thereto, a record holder, a shelf in said cover, means pivotally mounting said holder on said shelf, an arm secured to said holder, a slotted member secured to said casing, the slot in said member including a depression, and means on said arm engaging said slot whereby said holder is moved with respect to said cover as the cover is moved, said means engaging said depression to prevent closing of said cover.

12. In a talking machine, a casing and a cover pivoted thereto, a shelf in said cover, a record holder pivoted on said shelf, an arm secured to said holder, a slotted bracket secured to said casing, the slot therein including a portion concentric with the pivotal axis of said cover and a portion eccentric therewith and having a depression, and means formed on said arm for engaging said slot, said means engaging said depression to prevent closing of said cover.

13. In a talking machine, a casing and a cover pivoted thereto, a shelf in said cover, a record holder, a pair of brackets secured to said holder, means pivotally connecting said brackets to said shelf, an arm secured to one of said brackets, a slotted member secured to said casing, the slot therein including a portion concentric with the pivotal axis of said cover and a portion eccentric therewith and having a depression, and means on said arm engaging said slot, said means engaging said depression to prevent closing of said cover.

14. The combination with a talking machine casing comprising a base and a pivoted cover, of a record holder pivotally mounted in said cover, and relatively movable interengaging means on said holder and base, respectively, to move said holder relative to said cover as said cover is moved, said means having locking engagement in their relative position in which said cover is fully opened and being released from such locking engagement when said holder is moved relatively to said cover.

15. The combination with a talking machine casing comprising a base and a pivoted cover, of a record holder pivotally mounted in said cover, interengaging means on said holder and base, respectively, said means being locked against relative movement in one relative position thereof and being released by movement of said holder relative to said cover.

16. The combination with a talking machine casing comprising a base and a pivoted cover, of a record holder pivotally mounted in said cover, interengaging pin and slot means operatively connecting said holder and base, said slot having a locking depression in which said pin engages in one position of said cover and said pin and depression being disengaged by movement of said holder relative to said cover.

17. The combination with a talking machine casing comprising a base and a cover pivoted thereto, of a record holder pivotally mounted in said cover, interengaging pin and slot means operatively connecting said holder and base, said slot having a locking depression in which said pin engages when said cover is moved through an acute angle from closed position and said pin and depression being disengaged by movement of said holder relatively to said cover.

18. In a portable phonograph comprising two hingedly connected sections, a pivoted member on one of said sections, means on said other section cooperating with said pivoted member to maintain said sections in open position, and a receptacle for record tablets

housed within and movable with respect to said sections, said pivoted member having operative connection with said receptacle whereby movement of the latter permits moving of said sections into closed position.

19. In a portable phonograph comprising two hingedly connected sections, a receptacle for records within and movable with respect to said sections, means mounting said receptacle on one of said sections for movement relative thereto, latch means carried by the other of said sections, and cooperative means carried by said receptacle for cooperating with said latch means to prevent relative movement of said sections when in open position, said cooperative means being releasable from said latch means by movement of said receptacle to permit closing of said sections.

In testimony whereof I have signed this specification.

HERMAN HOLLERITH, JR.