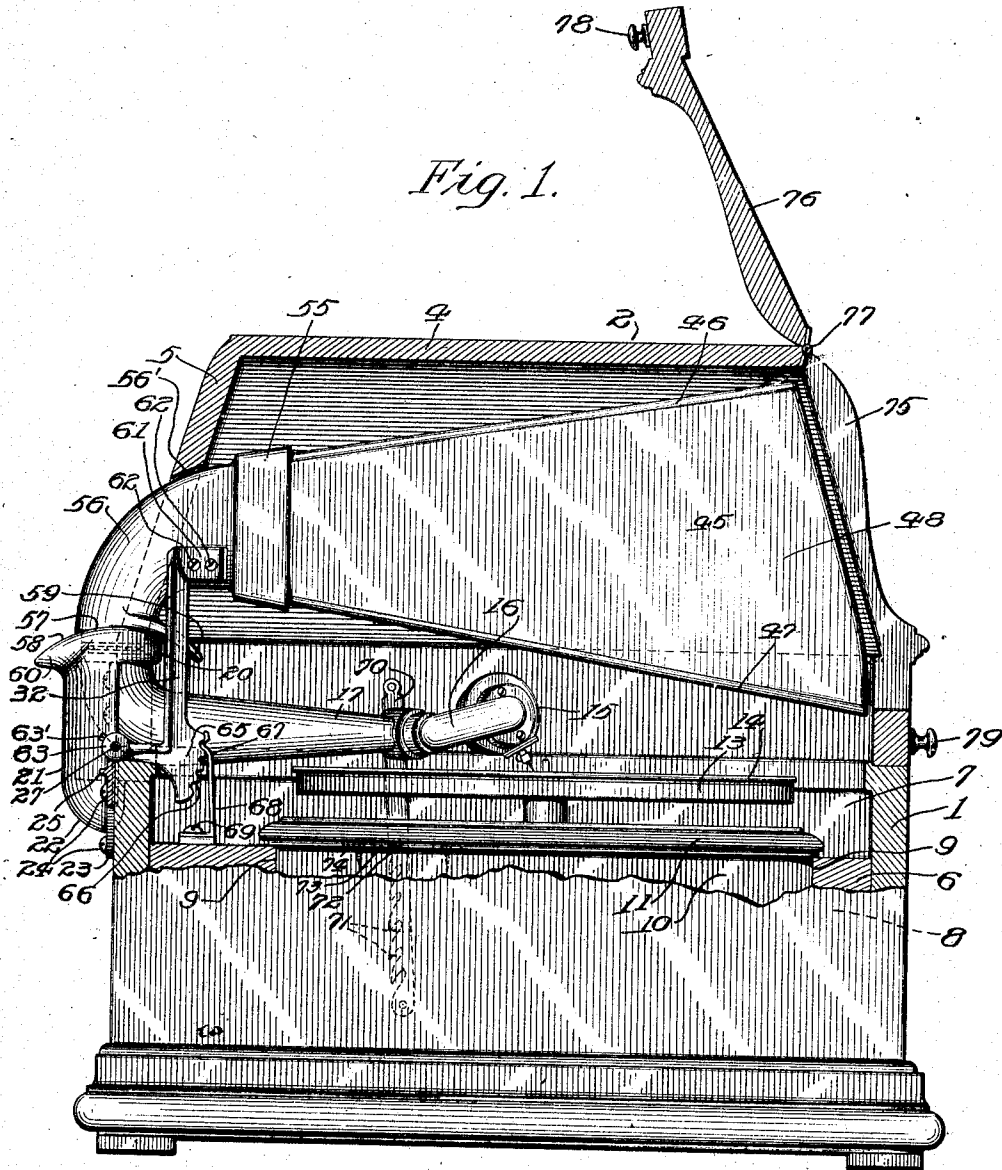


E. R. JOHNSON & J. C. ENGLISH.
TALKING MACHINE.
APPLICATION FILED JULY 10, 1909.

1,015,322.

Patented Jan. 23, 1912.

4 SHEETS—SHEET 1.



WITNESSES
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BY

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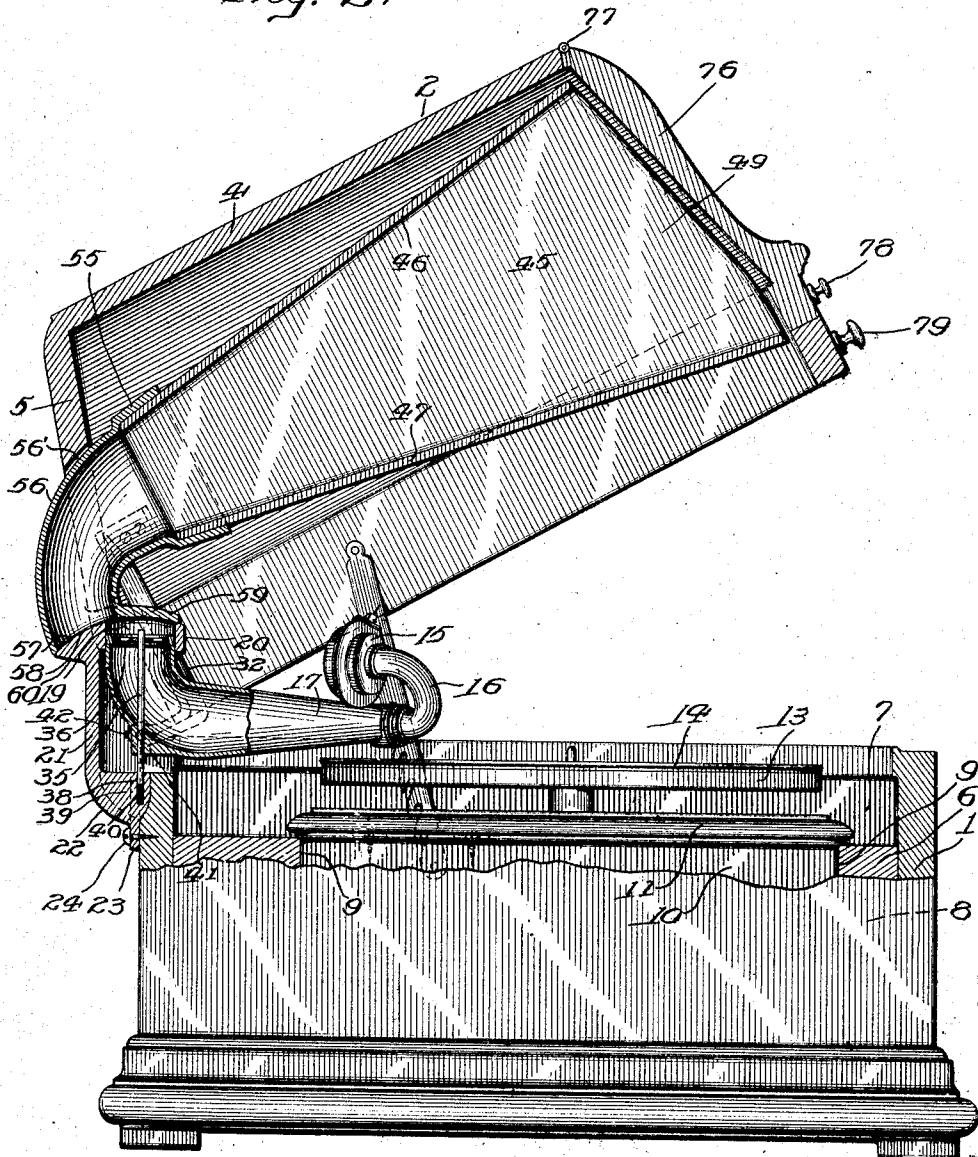
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4 SHEETS—SHEET 2.

Fig. 2.



WITNESSES

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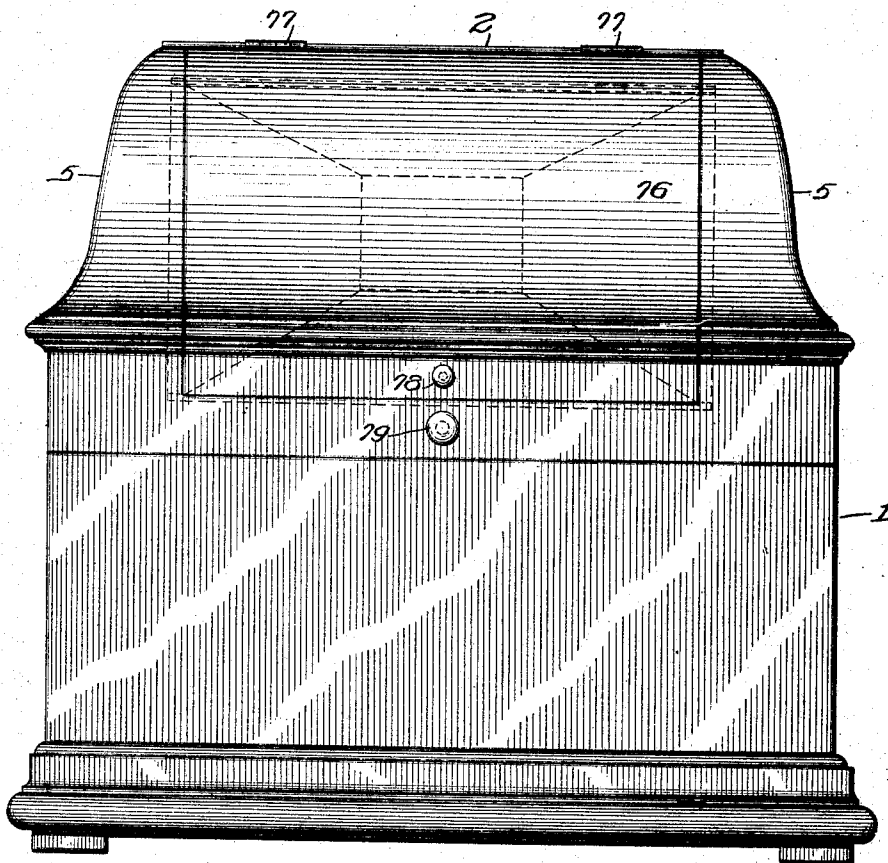
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4 SHEETS—SHEET 3.

Fig. 3.



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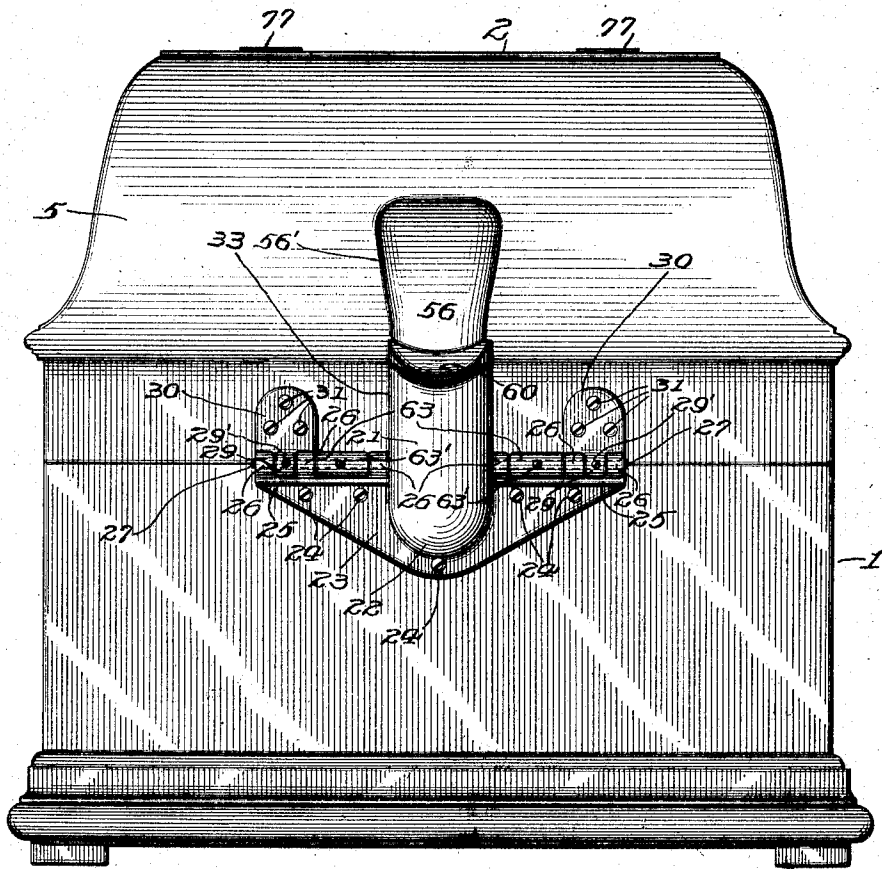
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4 SHEETS—SHEET 1.

Fig. 4.



WITNESSES
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UNITED STATES PATENT OFFICE.

ELDRIDGE R. JOHNSON, OF MERION, PENNSYLVANIA, AND JOHN C. ENGLISH, OF CAMDEN, NEW JERSEY, ASSIGNORS TO VICTOR TALKING MACHINE COMPANY, A CORPORATION OF NEW JERSEY.

TALKING-MACHINE.

1,015,322.

Specification of Letters Patent.

Patented Jan. 23, 1912.

Application filed July 10, 1909. Serial No. 506,867.

To all whom it may concern:

Be it known that we, ELDRIDGE R. JOHNSON and JOHN C. ENGLISH, both citizens of the United States, and residents of Merion, county of Montgomery, State of Pennsylvania, and Camden, county of Camden, and State of New Jersey, respectively, have invented certain new and useful Improvements in Talking-Machines, of which the following is a full, clear, and complete disclosure, reference being had to the accompanying drawings, forming part of this specification.

The main objects of this invention are, to provide a compact inclosed talking machine; to provide a talking machine in which the amplifier, the record support, and the actuating mechanism for the record support are inclosed in a cabinet provided with a movable cover, and in which the amplifier is located above the record support and is movable vertically independent of the cover, and in which the sound box arm is supported by a bracket secured to the outside of the rear end of the cabinet and communicates with the major portion of the amplifier through an elbow projecting outwardly through the rear end of the cover; and to provide other improvements as will appear hereinafter.

In the drawings, Figure 1 is a fragmentary side elevation, partly in vertical longitudinal section, of a talking machine constructed in accordance with this invention, the parts of the machine being shown in operative position; Fig. 2 is a similar fragmentary side elevation, partially in longitudinal vertical section of the same but showing the parts in inoperative position; Fig. 3 a front elevation of the same showing the cabinet closed; Fig. 4 a rear elevation of the same.

Referring to the drawings, one embodiment of this invention comprises a casing or cabinet having a body portion 1 open at its upper end and provided with a cover 2 superimposed thereon and hinged thereto upon a horizontal axis forming a closure for the upper end of the body portion. This cover comprises a top 4 having a downwardly flaring rim 5 forming the sides thereof. The body of the cabinet is divided by horizontal partition 6 into an upper compartment 7 and a lower compartment 8, and this partition is provided with a rectangular aperture 9, in which rests a motor casing 10

containing the actuating mechanism (not shown) of the machine.

Upon the top 11 of the motor casing 10, and within the upper compartment 6 of the cabinet, is a rotary disk record support 13 adapted to carry the usual disk sound record 14. Arranged above the record support in position to cooperate therewith is the usual sound box 15 mounted upon the usual U-shaped tube 16 pivotally supported by the free end of a forwardly tapering tubular sound box arm 17. The sound box arm 17 is arranged in a substantially horizontal plane, and the larger end of the arm is curved upwardly through an arc of about 90 degrees and fits rotatably within a cylindrical aperture 19 of an inwardly projecting annular extension 20 of a vertical bracket 21. The bracket 21 supporting the sound box arm projects rearwardly from the cabinet and extends above and below the upper surface of the body of the cabinet. The bracket 21 is substantially semi-cylindrical in shape with a rounded lower end 22, and is provided at its lower end with a substantially flat plate or flange 23 extending laterally in opposite directions from the bracket and secured to the rear face of the rear end of the body of the cabinet by means of screws 24, or other suitable fastening devices. This plate 23 is preferably substantially triangular in shape and is arranged with its upper edge 25 substantially parallel to and slightly below the adjacent upper edge of the body of the cabinet, and the plate is provided along this edge with upwardly projecting apertured lugs or eyes 26, in which engages a pintle 27 surrounding which are two movable eyes 29 each integral with a leaf or plate 30 secured to the outside of the rear wall of the cover by screws 31 or other suitable means forming a hinge connecting the cover to the body of the cabinet. Each of the eyes 29 fixed to the cover may be provided with a set screw 29' threaded through one side of the eye and adapted to engage the pintle to hold the pintle rigid with the eye to be rotated by the cover. The pintle 27 also forms a pivotal support for two L-shaped brackets 32 carrying the major portion of the amplifier, as will be described hereinafter. The inner face of the bracket 21 supporting the sound box arm is suitably recessed to receive the

larger end of the sound box arm, and to permit of the necessary movement thereof, and the back of the cabinet is also suitably recessed for the same purpose. The lower edge of the cover is recessed as at 33 to fit snugly around the side edges of that portion of the bracket 21 which projects above the plane of the body of the cabinet.

For rotatably supporting the sound box arm 17, a vertical pivot 35 is rotatably secured at its upper end centrally in a spider 36, which fits snugly within the cylindrical opening 19 of the bracket 21 and above the end of the sound box arm. The lower end of the pivot 35 is rotatably seated in a suitable socket 38, in a lug 39, integral with the lower end of the bracket, a spiral spring 40 being interposed between the lower end of the pivot and the lower end of the socket and yieldingly supporting the pivot. The pivot passes through a lug or sleeve 41 projecting downwardly from the sound box arm and integral therewith, and the sound box arm is held in fixed position with respect to the pivot by means of a set screw 42, which is threaded into the lug 41 and engages against the pivot. The sound box arm is thus mounted to swing in a horizontal plane about a fixed vertical axis.

The tapering tubular sound box arm 17 may be considered as forming the neck or smaller end of a sectional sound amplifier, the body or major portion, 45, of which is movable with respect to the neck. This body 45 is preferably rectangular and oblong in transverse section, comprising two flat sounding boards 46 and 47 forming the top and bottom respectively of the body, and two flat vertically arranged boards 48 and 49 forming the sides of the body. The top and bottom sounding boards diverge forwardly slightly, and the side sounding boards also diverge forwardly but to a greater degree than the top and bottom boards. The inner ends of these four sounding boards are snugly fitted in a transversely rectangular socket 55, formed by the outer end of a hollow rigid longitudinally tapering elbow 56. The rear or smaller portion of the elbow 56 curves downwardly preferably through about 90 degrees, extending freely through a recess 56' in the lower edge of the rear side of the cover and terminates in a cylindrically concave end 57 adapted to engage against the coaxial cylindrically convex end 58 of the upper portion of the fixed bracket 21, supporting the sound box arm. The axis of curvature of the cylindrical end of the elbow and of the bracket is preferably coincident with the axis of the pintle 27 of the hinge connecting the cover to the body of the cabinet so that the movement of the body of the amplifier may be made to correspond with the movement of the cover.

The lower end of the elbow is provided with an inwardly extending cylindrical shield 59, the lower surface of which is flush with the end of the elbow and the upper end of the bracket 21 is provided with a similar rearwardly extending projection or shield 60 integral therewith, having a cylindrical surface flush with the cylindrical end of the bracket, the shield on the elbow acting as a closure for the inner portion of the bracket, and the shield on the bracket acting as a closure for the outer portion of the elbow when the elbow is swung rearwardly about its axis.

The elbow 56 supporting the body of the amplifier is mounted upon and carried by two substantially L-shaped brackets 30 arranged vertically within the cabinet upon opposite sides of the elbow. Each of these brackets 30 is provided at its upper end with an inwardly extending lug 61 rigidly connected to the elbow 56 by means of screws 62 or other suitable means, and the lower end of each bracket projects through a suitable recess in the rear wall of the body of the cabinet and is provided with an eye 63 surrounding and supported by the previously described pintle 27 of the hinge between the cover and body of the cabinet. Each eye 63 may be provided with a set screw 63' whereby the L-shaped bracket may be rigidly secured to the pintle. The recesses containing the lower ends of the L-shaped brackets are proportioned to permit the necessary amount of rotation of the brackets but the bottom walls of the recesses may be positioned to limit the downward movement of the brackets and to hold the body of the amplifier in a substantially horizontal position.

One of the L-shaped brackets supporting the body of the amplifier is provided at the apex of the angle between its two arms with an inwardly projecting segment 65 having spaced notches 66 arranged in an arc concentric with the pintle 27, and adapted to be engaged by the upper curved end 67 of an upwardly extending spring 68, the lower end of which is rigidly secured by a screw 69 to the horizontal partition 6 of the cabinet. The segment and the spring cooperate in a well known manner to hold the L-shaped bracket in a fixed position but permitting of its manual adjustment about its axis. The body of the amplifier is thus mounted upon a horizontal axis coincident with the axis of movement of the cover of the cabinet and will be held in any position of adjustment by means of the segment and spring 67.

For supporting the cover 2 in any desired position of movement about its axis, a bar 70 is pivoted at one end to the inner surface of one side of the cover of the cabinet, and is provided adjacent its opposite end upon

its under edge with a series of notches 71 adapted to receive a pin 72, which extends across an aperture 73 in a plate 74 attached to the upper side of the horizontal partition 6, the partition being provided with an aperture resting with the aperture in the plate to permit the bar 70 to pass freely therethrough and to be adjusted longitudinally to engage the pin in any one of the series of notches in the bar.

For permitting the sounds to issue from the delivery end of the amplifier through the front end of the cover of the cabinet, the front end of the cover is provided with a rectangular aperture 75 of substantially the same dimensions as the delivery end of the amplifier, and a door or closure 76 is hinged as at 77 to the top wall of the cover and is adapted, when inclosed, to completely fill the opening through the cover. The door 76 is provided upon the front side of its lower portion with a knob 78 whereby the door may be operated, and the cover 2 of the cabinet is also provided upon the lower portion of its front side with a knob 79 for convenience of operation.

By the manipulation of the set screws 29' and 63' the cover of the cabinet and the body of the amplifier may be both secured rigidly to the pintle 27 by which they are carried, and when thus secured, the cover and the body of the amplifier will move in unison, but if preferred either the cover or the body of the amplifier or both the cover and the body of the amplifier may be loosened upon the pintle to be free to revolve with respect thereto, and in either of these latter cases the cover may be moved independently of the body of the amplifier.

The internal surfaces of the downwardly flaring sides of the cover of the cabinet form with the inner surface of the top of the cover, a flaring reflector which may be inclined to direct the sound waves set up in the air within the cabinet surrounding the body of the amplifier outwardly through the space between the cover and the body of the cabinet to mingle with the sounds issuing from the mouth of the amplifier.

When not in operation, the device is ordinarily kept with the sound box inverted upon its arm and at one side of the amplifier, and with the amplifier in its lowest position, and with the cover and door of the cabinet closed.

When it is desired to operate the machine, the cover is first raised and held in suitable position by means of the notched bar 70. This raising of the cover will also raise the body of the amplifier when the cover and the body are both rigidly secured to the pintle 27 as heretofore described. A record is then placed upon the record support, whereupon the sound box is swung into position to cooperate therewith and the actuat-

ing mechanism is then released. The cover may then be closed upon the body of the cabinet, thus lowering the body of the amplifier into a horizontal position. The door 76 of the cover 2 may then be inverted above the cover in its open position to permit the sounds to issue without interruption through the front end of the cover, or if it is desired to muffle or soften the reproduction, the door may be closed or may be held partially closed by any suitable means.

When the cover is arranged to move independently of the body of the amplifier it is obvious that the body of the amplifier may be adjusted in a substantially horizontal or other suitable position and will be held in place by the spring catch and the cover may be suitably inclined above the amplifier to act as a reflector.

Although only one form of this invention is here illustrated, it is obvious that the invention is not limited to the particular form shown, as many changes might be made in the construction without departing from the spirit of the invention or the scope of the appended claims.

Having thus described our invention, we claim and desire to secure by Letters Patent of the United States:—

1. In a talking machine, the combination with a cabinet provided with a movable cover, of sound reproducing means in said cabinet, and an amplifier having its major portion in said cabinet and mounted to swing independently of said cover upon an axis substantially coincident with the axis of movement of said cover, and means between said cover and said major portion to secure the same rigidly together to move in unison.

2. In a talking machine, the combination with a cabinet comprising a body portion and a cover, of a pintle upon which said cover is mounted to swing, sound reproducing means within said cabinet, and an amplifier having its major portion extending within said cabinet and supported by said pintle and movable independently of said cover.

3. In a talking machine, the combination with a cabinet comprising a base portion and a movable cover, of sound reproducing means within said cabinet, an amplifier having its major portion projecting through said cabinet, and mounted to swing independently of said cover.

4. In a talking machine, the combination with a cabinet comprising a base portion and a movable cover, of sound reproducing means within said cabinet, an amplifier having its major portion projecting through said cabinet, and mounted to swing independently of said cover, and means between said cover and said major portion to connect the same together to move in unison.

5. In a talking machine, the combination with a cabinet comprising a base portion and a movable cover, of sound reproducing means within said cabinet, an amplifier having its major portion projecting through said cabinet, and mounted to swing independently of said cover, and means between said cover and said major portion to secure the same rigidly together to move in unison.
6. In a talking machine, the combination with a cabinet having a body portion and a movable cover, of a pintle and means co-operating therewith connecting the cover movably to said body portion, an amplifier projecting in said cabinet and having its major portion mounted independently of said cover and upon said pintle, and means between said cover and said major portion to secure the same rigidly together to move in unison.
7. The combination with a cabinet comprising a body portion and a movable cover, of a rotary record support mounted within said body portion, a sound box arranged to coöperate with said record support, a sound box arm carrying said sound box, a bracket projecting outside of said cabinet and secured thereto supporting said sound box arm, a pintle carried by said bracket, means coöperating with said pintle for movably connecting said cover to said body portion, and sound amplifying means mounted to swing on said pintle independently of said cover.
8. The combination with a cabinet comprising a body portion and a movable cover, of a rotary record support mounted within said body portion, a sound box arranged to coöperate with said record support, a sound box arm carrying said sound box, a bracket projecting outside of said cabinet and secured thereto supporting said sound box arm, a pintle carried by said bracket, means coöperating with said pintle for movably connecting said cover to said body portion, sound amplifying means mounted to swing upon said pintle independently of said cover, and means to connect said sound amplifying means rigidly to said cover to move in unison therewith.
9. The combination with a cabinet having a movable cover, of a rotary record support mounted in said cabinet, a sound box arranged to coöperate with said record support, a sound box arm supporting said sound box, a bracket projecting outside of said cabinet and secured thereto supporting said sound box arm, and sound amplifying means movable with respect to said cover and extending through said cabinet and communicating with said sound box arm.
10. The combination with a cabinet having a movable cover, of a rotary record support mounted in said cabinet, a sound box arranged to coöperate with said record support, a sound box arm supporting said sound box, a bracket projecting outside of said cabinet and secured thereto supporting said sound box arm to swing upon a fixed axis, sound amplifying means movable with respect to said cover and extending through said cabinet and communicating with said sound box arm, and means to connect said sound amplifying means rigidly to said cover to move in unison therewith.
11. The combination with a cabinet having a movable cover, of a rotary record support mounted in said cabinet, a sound box arranged to coöperate with said record support, a sound box arm supporting said sound box, a bracket projecting outside of said cabinet and secured thereto supporting said sound box arm to swing upon a fixed axis, sound amplifying means movable with respect to said cover and extending through said cabinet and communicating with said sound box arm, and means to connect said sound amplifying means rigidly to said cover to move in unison therewith.
12. The combination with a cabinet having a movable cover, of a record support rotatably mounted therein, a sound box within said cabinet arranged to coöperate with said record support, a sound box arm supporting said sound box, a bracket outside of said cabinet rotatably supporting said sound box arm, and amplifying means projecting through said cover and movable independently thereof.
13. The combination with a cabinet having a body and a cover mounted upon said body to swing upon a fixed axis, of a record support rotatably mounted in said body, a sound box within said cabinet, a sound box arm supporting said sound box, a bracket secured to the outside of said body and supporting said sound box, and sound amplifying means projecting through said cover and movable independently thereof on an axis coincident therewith.
14. The combination with a cabinet having a body and a cover mounted upon said body to swing upon a fixed axis, of a record support rotatably mounted in said body, a sound box within said cabinet, a sound box arm supporting said sound box, a bracket secured to the outside of said body and supporting said sound box arm, sound amplifying means projecting through said cover and movable independently thereof on an axis coincident therewith, and means to connect said sound-amplifying means rigidly to said cover to move in unison therewith.
15. The combination with a cabinet having a cover mounted thereon to swing upon a fixed axis and provided with a flaring rim, of amplifying means mounted within said cover to swing coaxially therewith and independently thereof.
16. The combination with a cabinet having a cover mounted thereon to swing upon a fixed axis and provided with a flaring rim,

of amplifying means mounted within said cover to swing coaxially therewith and independently thereof, said rim being provided with an opening opposite said amplifying means, and a movable closure for said opening.

17. The combination with a cabinet comprising a body and a cover, of a bracket projecting outside of said body and extending above and below the upper surface thereof, a plate rigid with the lower end of said bracket and secured to the outside of said body, apertured lugs projecting upwardly from said plate, a pintle in said lugs, eyes carried by said pintle and secured to said cover, a hollow elbow projecting through said cover and cooperating with the upper end of said bracket, means carried by said pintle and extending within said cabinet and supporting said elbow, sound reproducing means within said cabinet supported by said bracket, and sound amplifying means within said cabinet supported by said elbow.

18. In a talking machine, the combination with a cabinet comprising a body and a cover, of a pintle mounted upon said body, an eye surrounding said pintle and secured to said cover, supporting said cover rotatably upon said body, amplifying means projecting in said cabinet, supporting means mounted upon said pintle and rotatable with respect thereto supporting said amplifying means, adjustable means between said eye and said pintle to hold said eye rigid with respect to said pintle, and adjustable means between said supporting means and said pintle to hold said supporting means rigid with respect to said pintle.

19. In a talking machine, the combination with a cabinet provided with a movable cover, of sound reproducing means in said cabinet, and an amplifier projecting outside of said cabinet, having its major portion in said cabinet and mounted to swing independently of said cover upon an axis substantially coincident with the axis of movement of said cover.

20. In a talking machine, the combination with a cabinet provided with a movable cover, of sound reproducing means in said cabinet, and an amplifier projecting outside of said cabinet, having its major portion in said cabinet, and mounted to swing independently of said cover upon an axis substantially coincident with the axis of movement of said cover, and means between said cover and said major portion to secure the same rigidly together to move in unison.

21. In a talking machine, the combination with a cabinet comprising a body portion and a cover, of a pintle upon which said cover is mounted to swing, sound reproducing means within said cabinet, and an amplifier projecting outside of said cabinet, having its major portion extending within

said cabinet, and supported by said pintle and movable independently of said cover.

22. The combination with a cabinet, comprising a body portion, and a movable cover, of a rotary record support mounted within said body portion, a sound box arranged to cooperate with said record support, a sound box arm carrying said sound box, a bracket secured to said cabinet supporting said sound box arm, a pintle carried by said bracket, means cooperating with said pintle for movably connecting said cover to said body portion, and sound amplifying means mounted to swing on said pintle independently of said cover.

23. The combination with a cabinet comprising a body portion and a movable cover, of a rotary record support mounted within said body portion, a sound box arranged to cooperate with said record support, a sound box arm carrying said sound box, a bracket secured to said cabinet supporting said sound box arm, a pintle carried by said bracket, means cooperating with said pintle for movably connecting said cover to said body portion, sound amplifying means mounted to swing upon said pintle independently of said cover, and means to connect said sound amplifying means rigidly to said cover to move in unison therewith.

24. The combination with a cabinet, comprising a body and a movable cover, of a pintle connecting said body to said cover, a hollow elbow extending through said cover and movable with respect thereto, a bracket mounted upon said pintle and supporting said elbow, and sound amplifying means communicating with said elbow.

25. The combination with a cabinet, comprising a body and movable cover, of a pintle connecting said body to said cover, a hollow elbow extending through said cover and movable with respect thereto, a bracket mounted upon said pintle and supporting said elbow, and sound amplifying means carried by said elbow and extending within said cabinet.

26. The combination with a cabinet, comprising a body and a cover, of a pintle connecting said body to said cover, a hollow elbow extending through said cover and movable with respect thereto, means mounted upon said pintle and supporting said elbow, and sound amplifying means carried by said elbow.

27. The combination with a cabinet comprising a body and a cover, of a pintle connecting said body to said cover, a hollow elbow extending through said cover, a bracket mounted upon said pintle and supporting said elbow, and sound reproducing means communicating with said elbow.

28. The combination with a cabinet comprising a body and a cover, of a pintle connecting said body to said cover, a hollow

elbow extending through said cover, a bracket mounted upon said pintle and supporting said elbow, yielding means engaging said bracket to hold said elbow in position, and sound reproducing means communicating with said elbow.

29. The combination with a cabinet comprising a body and a cover, of a hollow elbow projecting through said cover, a bracket mounted upon said pintle and supporting said elbow, said bracket being provided with a segment provided with spaced notches, yielding means adapted to engage in said notches to hold said elbow adjustably in position, and sound reproducing means communicating with said elbow.

30. The combination with a cabinet, comprising a body and a cover, of a pintle connecting said body to said cover, a hollow elbow extending through said cover, means mounted upon said pintle and supporting said elbow, and sound reproducing means communicating with said elbow.

31. The combination with a cabinet, comprising a body and a cover, of a pintle connecting said body to said cover, a hollow elbow extending through said cover, means mounted upon said pintle and supporting said elbow, and sound amplifying means carried by said elbow and extending in said cabinet.

32. In a talking machine, the combination with a cabinet comprising a body portion and a cover mounted to oscillate upon a fixed axis, of sound amplifying means extending within said cabinet and movable with respect to said cover upon an axis coincident with the axis of oscillation of said cover.

33. The combination with a cabinet provided with a movable hollow cover, of a record support, sound reproducing means arranged in coöperative relation with said support, and sound amplifying means having a delivery end extending within said cover and movable with respect thereto.

34. The combination with a cabinet having a body portion and a hollow movable cover, of a record support carried by said body portion, a sound box arranged to coöperate with said record support, and amplifying means inclosed within said cabinet, the major portion of said amplifying means being outside of said body portion and within but independent of said cover.

35. The combination with a cabinet, of a record support, sound reproducing mechanism arranged to coöperate with said support, and amplifying means having its major portion in vertical alinement with said record support and inclosed within but entirely out of contact with said cabinet, and movable into and from a substantially horizontal position.

36. In a talking machine, the combination with a cabinet comprising a stationary body portion and a movable cover superimposed thereon, of sound reproducing means in said cabinet, and an amplifier having a delivery end in said cabinet and arranged to deliver sound from said cabinet in a straight substantially horizontal line from said delivery end through the space between said body portion and said cover, when said cover is open.

37. In a talking machine, the combination with a cabinet comprising a stationary body portion and a movable cover connected thereto, of sound reproducing means in said cabinet, and an amplifier having a delivery end in said cabinet and arranged to deliver sound from said cabinet in a straight line from said delivery end and through the space between said cover and said body when said cover is open, said delivery end being movable independently of said cover.

38. In a talking machine, the combination with a cabinet comprising a stationary body portion and a movable cover connected thereto, of sound reproducing means in said cabinet, and an amplifier having a delivery end in said cabinet and arranged to deliver sound from said cabinet in a straight line from said delivery end and through the space between said cover and said body when said cover is open, said cover being hollow and having a flaring rim whereby the cover acts as a concave sound deflector.

39. In a talking machine, the combination with a cabinet comprising a body portion and a movable cover, of sound amplifying means within said cabinet and movable independently of said cover, and means adjustable to connect said amplifying means to said cover, to be moved thereby.

40. In a talking machine, the combination with a cabinet comprising a body portion and a movable hollow flaring cover, of amplifying means having a delivery end extending within said cabinet and movable with respect to said cover.

41. In a talking machine, the combination with a cabinet comprising a body portion and a movable closure, of sound amplifying means carried by said closure and angularly adjustable into various fixed positions with respect thereto.

42. In a talking machine, the combination with a cabinet, comprising a body portion and a movable closure therefor, of sound reproducing means inclosed by said cabinet, and hollow sound conducting means communicating with said sound reproducing means and extending freely through said cover, said cover being movable independently of said sound conducting means.

43. In a talking machine, the combination with a cabinet, comprising a body portion

and a hollow movable cover, of sound reproducing means in said cabinet, sound amplifying means having a delivery end extending within said cover, means of communication between said sound reproducing means and said sound amplifying means extending outside of said cabinet and projecting freely through said cover.

44. In a talking machine, the combination with a cabinet comprising a body portion and a movable closure therefor, of hollow sound conveying means carried by said closure and angularly adjustable into various fixed positions with respect thereto.

45. In a talking machine, the combination with a cabinet comprising a body portion and a movable closure therefor, of sound amplifying means having a delivery end inclosed by said cabinet and carried by said closure and angularly adjustable into various fixed positions with respect thereto.

46. In a talking machine, the combination with a cabinet, comprising a body portion and a cover movable with respect to said body portion upon a fixed axis, of hollow sound conveying means extending in said cabinet and angularly adjustable into various fixed positions with respect to said

cover about an axis coincident with the said axis of said cover.

47. In a talking machine, the combination with a cabinet, comprising a body portion and a cover movable with respect to said body portion upon a fixed axis, of hollow sound conveying means extending in said cabinet and angularly adjustable into various fixed positions with respect to said cover about an axis coincident with the said axis of said cover, said sound conveyer being arranged to be moved independently of said cover or to be secured to said cover to be oscillated thereby.

Signed by me, ELDRIDGE R. JOHNSON, at Camden, State of New Jersey, this 9th day of July, 1909.

ELDRIDGE R. JOHNSON.

Witnesses:

RALPH L. FREEMAN,

FRANK BARCLAY MIDDLETON, Jr.

Signed by me, JOHN C. ENGLISH, at Camden, State of New Jersey, this 9th day of July, 1909.

JOHN C. ENGLISH.

Witnesses:

EDWARD KARCHER MACEWAN,

CHARLES CHRISTOPHER MORE.