

April 5, 1938.

H. R. SEGAL

2,112,866

HOLDING DEVICE

Filed Jan. 18, 1934

3 Sheets-Sheet 1

Fig. 1.

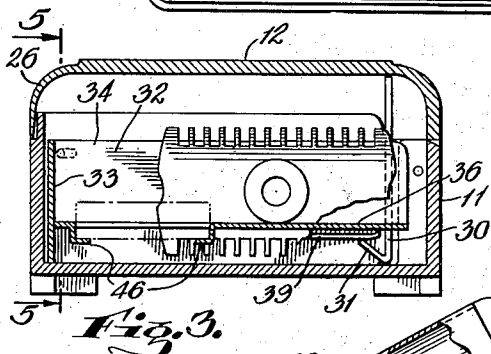
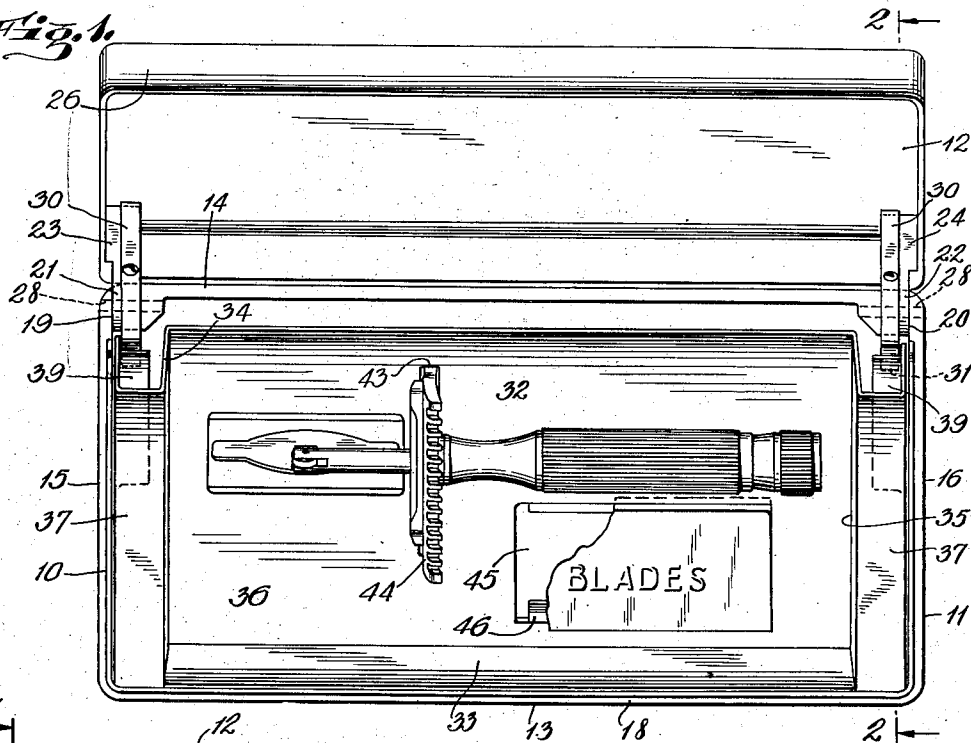


Fig. 3.

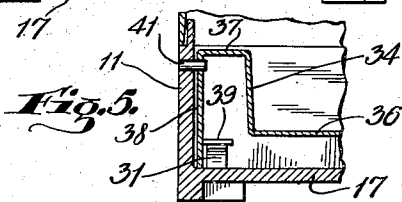
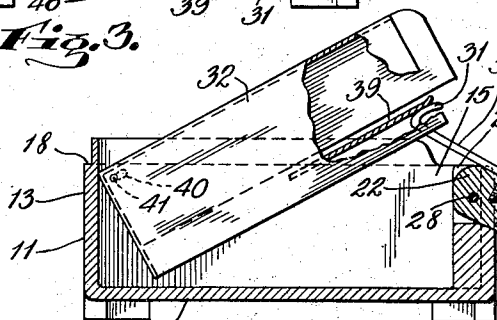


Fig. 5.

Fig. 2.

Fig. 4.

BY

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ATTORNEY.

April 5, 1938.

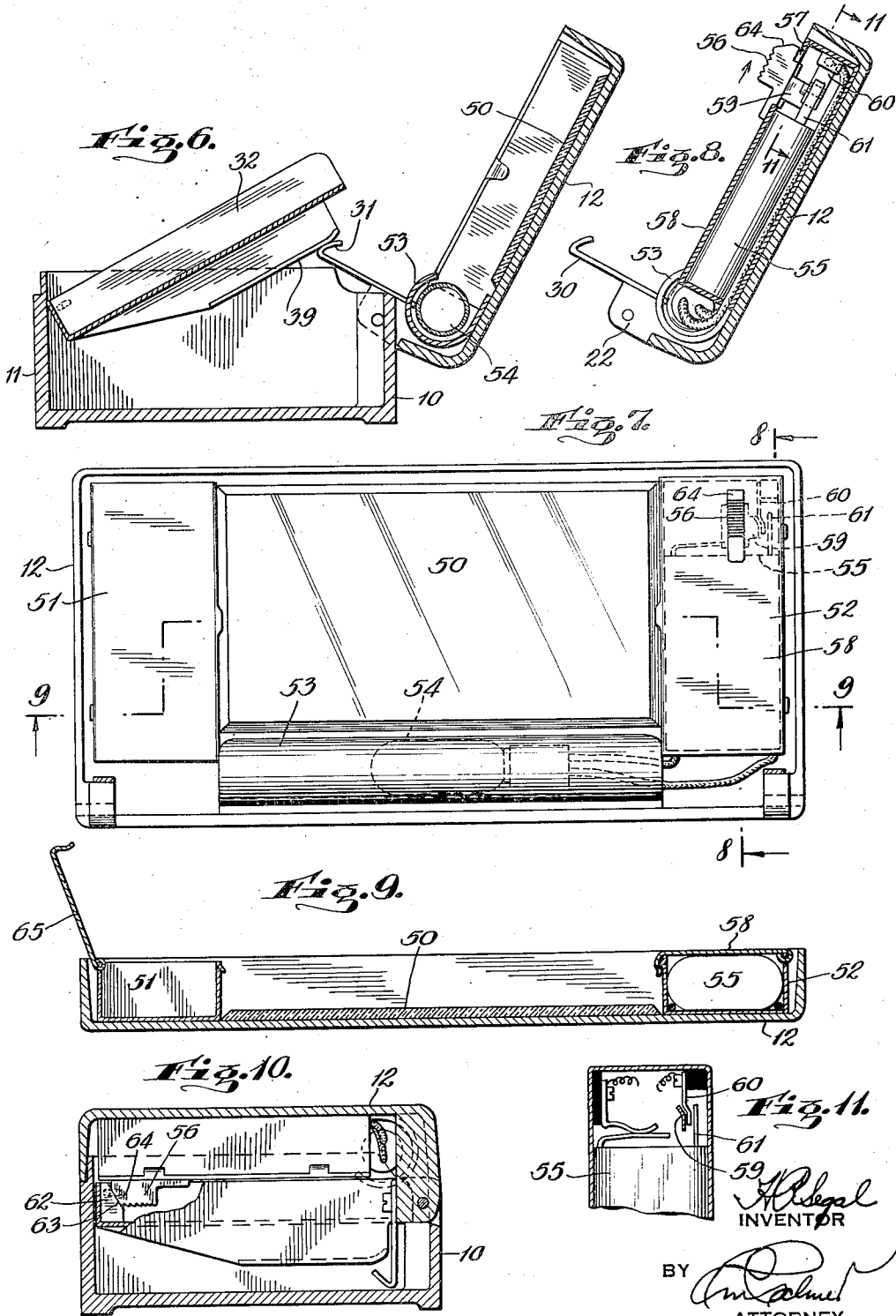
H. R. SEGAL

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3 Sheets-Sheet 2



BY

ATTORNEY

April 5, 1938.

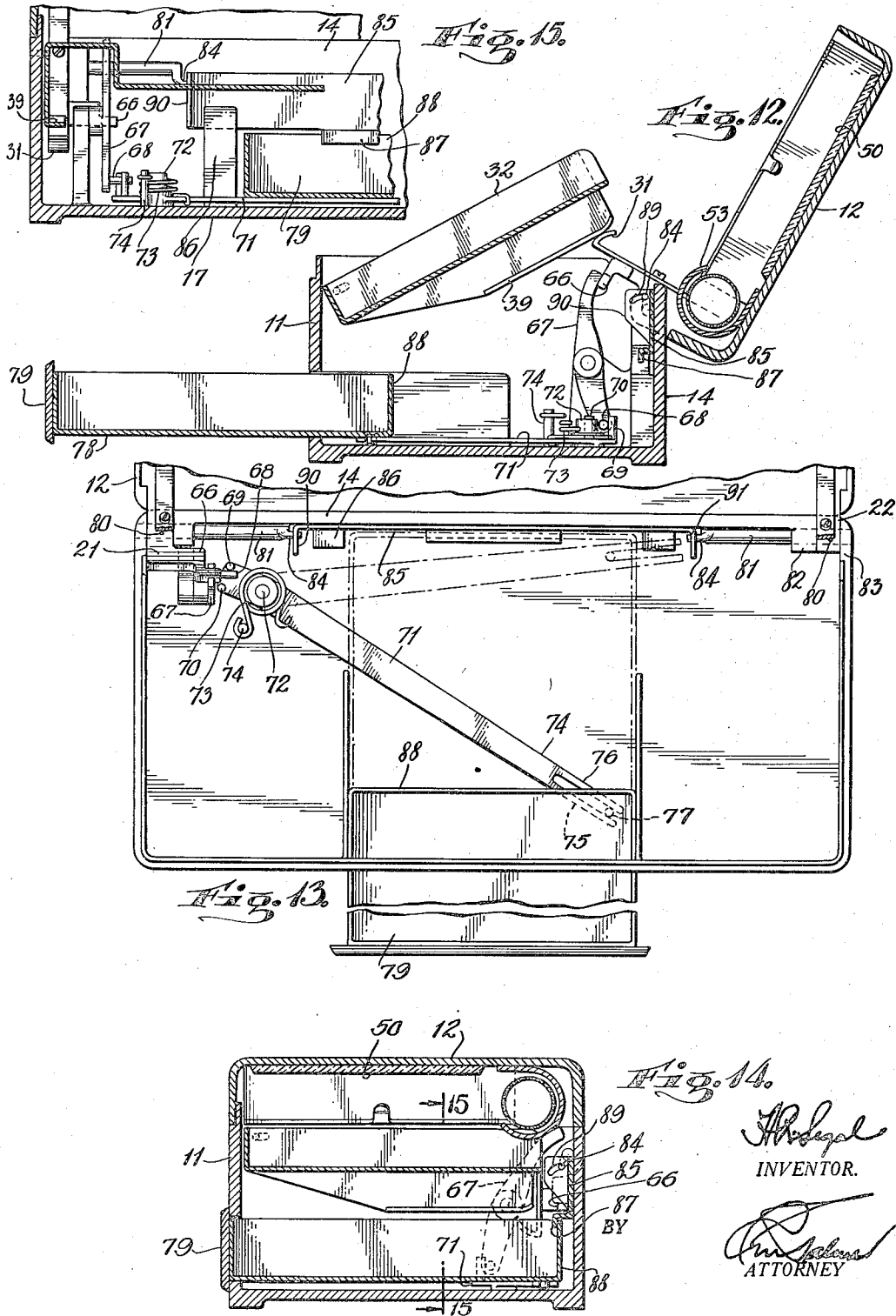
H. R. SEGAL

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HOLDING DEVICE

Filed Jan. 18, 1934

3 Sheets-Sheet 3



UNITED STATES PATENT OFFICE

2,112,866

HOLDING DEVICE

Hyman R. Segal, New York, N. Y.

Application January 18, 1934, Serial No. 707,096

14 Claims. (Cl. 206—16)

The present invention has to do with a container adapted for use in connection with the displaying of merchandise or adapted for use as a cosmetic storing receptacle.

5 The invention has as one object the provision of a display receptacle or container comprising a hinged and normally concealed article carrying tray adapted to be lifted to an inclined position or lowered to a horizontal position upon the manipulation of the cover of the casing or housing of the receptacle or container.

10 The invention has as another object the provision of a receptacle including a hinged connected normally concealed tray adapted to be first lifted from a horizontal to an inclined position upon lifting of the closure or cover of the casing of the receptacle or container and subsequently held in an inclined position by means independent of the cover.

15 The invention has as another object the provision of a normally concealed article supporting tray adapted to be exposed upon the actuation of a cover or closure of a display device whereby the articles of the tray may be easily viewed and readily inspected.

20 The invention has as a further object the provision of a display container and/or compact receiving device having a normally swingable concealed article supporting tray and a normally concealed article supporting slidable drawer or tray both adapted to be brought from their concealed positions to positions where they may be easily and quickly accessible outside of the limits of the display container or compact receiving device upon raising of the closure of the housing or casing of the display container or compact receiving device.

25 The invention has as a further object to simultaneously conceal a liftable and hinged connected tray and a horizontally slidable drawer or tray from an accessible position to an inaccessible position upon lowering of the closure of a casing or housing in which both of the trays are normally concealed and housed or confined.

30 The invention further comprehends as an object the provision of a cosmetic holding device or compact having an improved cover carrying a reflector or mirror adapted to be illuminated subsequent to raising of the cover which in turn operates to displace article supporting means.

35 The invention has as a further object the provision of a relatively large compact holding device having a closure carrying an inwardly disposed mirror adapted to be indirectly illuminated by an arcuately disposed reflector rendered effective by

a suitable electrically controlled incandescent lamp or the like carried by the cover.

The invention has as a further object to provide a compact receiving device having a cover carrying a mirror and illuminating means, the illuminating means being disposed in an electrical circuit rendered ineffective or disabled upon the closing of the cover.

Other objects, features and advantages of the invention may be better understood from the several embodiments hereinafter specifically described and although such embodiments are merely described as illustrative of the invention and not to be considered as limitations thereon, the invention itself will be better understood from a consideration of such specific proceedings and teachings thereof and for this purpose and to aid the following specific description, reference is made to the accompanying drawings in which:—

Fig. 1 is an open plan view of the display device according to the invention.

Fig. 2 is a section taken in the line 2—2 of Fig. 1.

Fig. 3 is a view similar to Fig. 2 but illustrating the cover closed.

Fig. 4 is a fragmentary view of the display device showing the housing or casing in section and the tray in elevation and held in an inclined position by means independent of the cover.

Fig. 5 is a fragmentary section taken along the line 5—5 of Fig. 3.

Fig. 6 is a transverse sectional view of a display device which may be used as a compact and which has its cover shown open and the tray held raised by the cover.

Fig. 7 is a vertical elevation view of the inside of the cover shown raised in Fig. 6.

Fig. 8 is a section taken on the line 8—8 of Fig. 7.

Fig. 9 is a section taken on the line 9—9 of Fig. 7.

Fig. 10 is a view similar to Fig. 6 but showing the cover closed.

Fig. 11 is a section along the line 11—11 of Fig. 3.

Fig. 12 shows a transverse section of another form of compact or display device.

Fig. 13 is a longitudinal view of the form shown in Fig. 12 illustrating the casing with the cover therefor partly opened and with the tiltable and liftable tray removed to show the interior mechanism for actuating the article supporting slidable drawer or tray.

Fig. 14 is a transverse sectional view of the embodiment shown in Fig. 12, however illustrat-

ing the tray and drawer concealed when the cover is closed, and

Fig. 15 is a sectional view taken on the line 15-15 of Fig. 14.

In all of the forms illustrated the article or compact receiving device comprises an enclosure or housing generally designated 10. The housing consists of two complementary sections, to wit, a casing 11 and a swingable closure or cover 12 hingedly connected thereto. The casing and cover have a rectangular form as shown. Other forms may be employed within the province of the invention.

The casing comprises a front wall 13, a back wall 14, side walls 15 and 16 and a common bottom wall 17. All of these walls may be suitably connected to form a unitary or one piece instrumentality or casing. The walls of the casing may be made of celluloid, Bakelite or equivalents thereof and cast in one piece. Or alternatively, the casing and cover may each be of a suitable heavy paper or cardboard suitably folded together as is well understood.

The upper portions of the front wall and sides of the casing are appropriately rabbeted or attenuated to provide a stop shoulder 18 while the rear wall is provided with a pair of spaced vertically disposed notches or recesses 19 and 20 to swingably accommodate the cam shaped and spaced ears or lugs 21 and 22 respectively depending from blocks 23 and 24 suitably disposed in the rear inner corner portions of the cover which comprises an upper wall 25 from which integrally depends the peripheral marginal rim 26 which, when the cover is lowered, embraces the attenuated upper part of the housing and which is limited in its downward movement or displacement by the stop shoulder 18. If desired, the cover may be cast in one piece of any appropriate material or it is within the teachings of the present disclosure to have the cover of a suitable paper or cardboard. If, of cardboard or paper, the blocks 23 and 24 may be attached to the inner corner portion of the cover such that their lower lugs or cam shaped ears extend beyond the rim of the cover. Ears 21 and 22 are pivotally and loosely mounted on fixed pins as 28 suitably fastened to the rear wall of the casing.

Attached to each block by a fastening member, such as a bolt or screw 29, is a rectilinear arm as 30 which is in the form of a strip of metal having a width substantially greater than its thickness and includes a lower portion extending considerably beyond or overhanging an adjacent ear or lugs and the ends of these lower portions are bent forwardly and upwardly to form lip portions as 31 for a purpose hereinafter more fully set forth.

Pivoted to the front portion of the spaced sides of the casing is a liftable tray broadly denoted 32. This tray comprises a one piece member having a front wall 33, side walls 34, 35 and an article supporting common interconnecting wall 36. Extending laterally and outwardly from each side of the liftable tray is a flange 37 from each of which depends a downwardly disposed plate 38 which extends below the article supporting wall 36 of the tray and serves as means to limit downward movement of the tray relative to the bottom wall 17 of the casing 11.

Appropriately attached to each of the inner faces of the spaced plates 38 of the tray is a laterally disposed and inwardly and transversely extending rail as 39 and the forward ends of each of the plates 38 at their upper portions are pro-

vided with elongated slots 40 loosely receiving pins as 41 overhanging the inner side wall of the casing and suitably secured thereto.

In the closed position of the cover, lips 31 are below the side rails 39. As the cover is raised, these lips are also raised such that their free terminal portions first abut the rails and as the cover is swung further away from the casing, the outer faces of lips ride along the underfaces of the rails, consequently causing the end of the tray nearest the closure to be correspondingly raised. The end of the tray nearest the front wall of the casing however is pivoted on the stationary pins 40. It is thus seen that as the cover is swung completely to its full open position, the article supporting tray has one end raised such that it may be held in a tilted position by the lips 31. The latter for purposes of description may be considered as cam means employed in elevating or lowering the tray upon the actuation of the cover.

As illustrated in Fig. 2, the tray is in a tilted position and held in such position by the lips 31. This tray may be also held in a tilted position without the aid of these lips. To this end, the tray is swung forwardly as to be disposed substantially vertically and subsequently positioned such that the fixed pins 41 are at the upper portions of the slots 40 (see Fig. 4). In this position the forward edge 42 of the tray abuts the inner face of the front wall 13 of the casing and the tray is consequently held in a tilted position without support by the cams or lips 31 of the spaced arms 30.

As shown in Fig. 1, the tray is provided with a transverse slot 43 adapted to receive the guard 44 of a safety razor to prevent displacement of the latter. Of course, the tray may support other articles of merchandise, as for example, a package of blades disposed between suitable struck out flanges as 46. If desired, the tray may be utilized to support a variety of kinds of cosmetics as well as other articles.

In the form according to Figs. 6 to 11 inclusive, the display or cosmetic holding device is similar in construction to the form shown in Figs. 1 to 5 inclusive except that the cover of the latter has been utilized, as shown in Figs. 6 to 11 inclusive, to support a relatively large flat mirror 50, a powder receptacle 51 and an electric battery receptacle 52. The cover also carries an arcuate highly polished longitudinally disposed reflector 53 in which is suitably sustained an electric incandescent lamp 54. This lamp is electrically associated with a battery 55 disposed in the receptacle 52.

When the cover 12 is raised, the tray 32 is raised and tilted to expose the articles carried by it. The lamp 54 is rendered effective upon completion of an electrical circuit common to the battery and lamp. This is accomplished by displacing the knurled insulated dog or switch member 56 in the direction indicated by the arrow (see Fig. 8). This dog is suitably slidably mounted and guarded in a slot 57 of the cover 58 of the battery receptacle 52 and includes a conducting extension or cam 59. If displaced, cam 59 causes the spring electrical contact 60 to engage terminal 61 of the battery 55 consequently completing an electrical circuit for the lamp and the latter lights up. The light rays emanating are widely dispersed by the curved reflector 53 and are directed on to the mirror 50. To cut out the lamp, the operator may conveniently move the switch in a direction counter to

the arrow, or the circuit may be automatically disabled in the closing of the cover for the display casing. For this purpose, a block or wedge 62 is so situated and secured to the tray that its inclined or beveled face 63 cooperates with the inclined or beveled face 64 of the switch 56 such that the latter is slidably displaced for disabling of the electric circuit as is well understood.

The construction according to Figs. 6 to 11, may be conveniently utilized as an article holding and display device or as a cosmetic holding device. In the latter case, the receptacle 51 may be employed to store such instrumentalities as powder, rouge, lip stick, etc. The receptacle 51 is provided with a suitably connected self closing hinged cover 65. Cover or closure 58 operates in a similar fashion.

With the form according to Figs. 12 to 15 inclusive, the cover is utilized to automatically tilt the pivotally connected tray 32 and also to extend beyond the limits of the casing, an article supporting slidable drawer or tray 79 when the cover is raised or when closed to lower the previously tilted tray and retract the slidable tray. To this end, one of the swingable and pivoted ears or lugs 21 of the cover 12 is provided with an inwardly projecting extension or cam 66 which operates to vertically displace a pivoted or swingable actuating lever 67 having a pin 68 disposed between the spaced posts 69 and 70 of a horizontally rockable lever 71 suitably journaled or pivotally associated with the upstanding stud 72. A coiled spring 73, having one end held about a fixed post 74 and another end anchored to lever 71, encircles post 72 and normally acts to urge lever 71 to assume the position indicated by the dash and dot lines in Fig. 13, that is, to hold drawer 79 retracted.

Lever 71 is provided with a forked or bifurcated end 74 having the spaced tines 75 and 76 which straddle a pin 77 projecting downwardly from the bottom wall 78 of a slidable drawer or tray, generally denoted 79. It is thus apparent that if, the cover 12 is raised, the article holding tray or drawer 79 is slidably moved forwardly or withdrawn as to overhang the forward wall of the casing 11 (see Fig. 12). The tray 32 is also tilted or raised as in the case of the earlier described constructions in which the fixed pins 28 served as fulcrum means for the pivoted ears 21 and 22. In the case of the embodiment of Figs. 12 to 15 inclusive, ears or lugs 21 and 22 of the cover 12 are fixedly secured by pins or studs 80 to shafts as 81 which are rotatably mounted in spaced bearings as 82 and 83 of the cover.

Each of the shafts 81 includes an offset crank or crank arm 84 and these cranks project into arcuate openings as 89 of the spaced sides 90 and 91 of a plate carriage 85 slidably guided between rear wall 14 of the casing and the upstanding block 86 secured to the wall 17. The plate carriage 85 is provided with an offset depending lug 87 which cooperates with the rear wall 88 of the drawer 79 when the latter is in a full closed position to prevent withdrawal thereof unless the cover 12 is raised and if raised, cranks 84 lift plate 85 upwardly as to free offset lug 87 from the wall 88. When the cover is actuated, cranks 84 ride in the arcuate slots 89 of the aforementioned forwardly projecting spaced sides 90 and 91 of the plate carriage 85, that is to say, if the cover is raised and subsequently closed, locking carriage 85 is reciprocated.

If the cover be lowered, tray 32 is lowered, that is, cam or lips 31 gradually and progressively

move downwardly, causing the tray 32 to assume a horizontal position. In moving downwardly, the cam 66 is also displaced and gradually frees lever 67, hence permitting the operation of the lever arm 71 to retract the drawer 79. Stated in another way when the cover 12 is closed both of the trays are brought within the casing and concealed.

As in the case of the form illustrated in Figs. 6 to 11 inclusive, the cover 12 shown in Figs. 12 to 15 inclusive is provided with an indirect illuminating system for the mirror 50 and also with appropriate cosmetic and battery holding receptacles or compartments.

Many modifications of my invention will be apparent to those skilled in the art without departing therefrom or from the scope of the appended claims and since the foregoing has been given by way of example only for clearness and understanding of the principles underlying my invention, no unnecessary limitations should be inferred and/or understood and the appended claims should be construed as broadly as the state of the art permits.

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

1. In a device of the class described and in combination, a casing, a cover hingedly connected thereto, a mirror secured to an inside face of said cover, light deflecting means carried by said cover, a lamp associated with said light deflecting means, switch means carried by said cover and electrical circuit means connected to a source of energy and including said switch means and said lamp.

2. In a device of the class described and in combination, a casing, a cover hingedly connected thereto, a mirror secured to an inner face of said cover, light deflecting means carried by said cover, a lamp for directing light rays to said light deflecting means, a battery electrically associated with said lamp, a switch member carried by said cover and electrically associated with said battery, said switch member being adapted to close an electric circuit including said battery and lamp to render the latter incandescent or open said circuit to remove a source of potential from said lamp.

3. In a compact, the combination of, a casing, a cover hingedly connected thereto, a mirror secured to an inner face of said cover, light deflecting means carried by said cover, a lamp for directing light rays to said light deflecting means, an electric circuit in which said lamp is disposed, circuit making and breaking means carried by said cover, an article supporting tray pivotally connected to said casing, cam means carried by said cover for raising one end of said tray above the elevation of said casing, said circuit making and breaking means being adapted to close said circuit and render said lamp incandescent and means for actuating said circuit making and breaking means to open said circuit.

4. In a compact, the combination of, a casing, a cover hingedly connected thereto, a mirror secured to an inner face of said cover, light deflecting means, a lamp for directing light rays to said light deflecting means, an electric circuit in which said lamp is disposed, a source of potential disposed across said circuit, an article supporting tray having its forward portion pivotally connected to said casing, cam means carried by said cover for lifting the rearward portion of said tray above the elevation of said casing upon raising of

the forward part of said cover, a switch associated with said circuit, and means carried by said tray for operating said switch to automatically open said circuit upon the closing of said cover.

5 5. In a display device, the combination of, a casing, a cover hingedly connected to said casing, a tray tiltably carried by said casing, a drawer slidably disposed within said casing, actuating means operatively associated with said drawer, and
10 means operative upon lifting of the front part of said cover for elevating the rear part of said tray and for operating said actuating means to withdraw the major part of said drawer from said casing.

15 6. The display device according to claim 5 characterized in that the rear part of said tray is lowered and said drawer is retracted upon the closing of said cover.

7. In the device of the character described, a casing, a cover hinged thereto, crank means bodily movable with said cover, a carriage reciprocally actuated by said crank means, a drawer slidably associated with said casing and free of said carriage in the raised position of said cover, actuating means operatively associated with said cover and drawer, and cam means for operating said actuating means to extend the major part of said drawer beyond the casing.

8. The device according to claim 7 wherein said carriage is provided with a locking element cooperating with a wall of said drawer when retracted to prevent withdrawal of said drawer when said cover is in a closed position.

9. The device according to claim 7 wherein a tray is pivotally carried by said casing and the cover includes cam means for tilting of said tray when the cover is raised.

10. The device according to claim 7 wherein the cover includes a light reflecting member indirectly illuminated.

11. In a device of the class described and in combination, a casing, a cover hingedly connected to said casing, a mirror secured to an inside face of said cover, arcuate light deflecting means carried by said cover, a lamp associated with said light deflecting means, slidable switch means carried by said cover, electrical circuit means connected to a source of potential, said switch means and said lamp, and an abutment disposed within said casing, said switch means adapted to be manually actuated to close said circuit means to render said lamp incandescent said abutment upon closing of said cover automatically actuating said switch means to remove said source of potential from said circuit means and open the latter.

12. In a display device, a casing, a slidable drawer mounted within said casing, a tray tiltably supported by said casing, a cover hinged to said casing and means operative upon pivotal rearward displacement of said cover for simultaneously withdrawing said slidable drawer and elevating the rear portion of said tiltable tray.

13. In combination, a casing having a front and rear wall and spaced sides, fulcrum posts

secured to said sides adjacent said front wall, a cover hinged to the rear wall of said casing, an article holding tray having spaced sides including relatively elongated openings surrounding said posts and defining therewith means to guide the displacement of said tray relative to said casing, and arms carried by said cover to tilt said tray upon opening of said cover and to hold said tray substantially horizontal in a closed position of said cover, said openings in a closed position of said cover being substantially horizontal and having outer end walls cooperating with said posts to constitute a pivotal connection to elevate the upper portion of said tray upon raising of said cover, said posts and openings defining means whereby said tray may be bodily shifted along said posts to position the inner end walls of said openings against said posts for disposing the forward portion of said tray in spaced relation to said front wall of the casing, and said inner end walls of said openings and said posts defining a pivotal connection permitting the upper part of said tray to be swung rearwardly to arrange said forward part of said tray into engagement with the front wall of said casing to hold said tray in a tilted position in respect to said casing independent of said arms.

14. In combination, a casing having a front and rear wall and spaced sides, fulcrum means secured to said sides adjacent said front wall, a cover hinged to the rear wall of said casing, an article holding tray having spaced sides including relatively elongated openings surrounding said posts and defining therewith means to guide the displacement of said tray relative to said casing, and arms carried by said cover to tilt said tray upon opening of said cover and to hold said tray substantially horizontal in a closed position of said cover, said openings in a closed position of said cover being substantially horizontal and having outer end walls cooperating with said posts to constitute a pivotal connection to elevate the upper portion of said tray upon raising of said cover, said posts and openings defining means whereby said tray may be bodily shifted along said posts to position the inner end walls of said openings against said posts for disposing the forward portion of said tray in spaced relation to said front wall of the casing, said inner end walls of said openings and said posts defining a pivotal connection permitting the upper part of said tray to be swung rearwardly to arrange said forward part of said tray into engagement with the front wall of said casing to hold said tray in a tilted position in respect to said casing independent of said arms, and said posts and inner end wall of said openings constituting means to permit the upper part of said tray to be swung forwardly whereby said tray may be subsequently bodily and slidably raised to dispose the outer ends of said openings against said posts.

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