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Nov. 18, 1924.

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C. WACHTEL

ELECTRIC BOUDOIR LAMP

Filed June 28, 1923

1,516,128

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2 Sheets-Sheet 1



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2 Sheets-Sheet 2





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Patented Nov. 18, 1924.

1,516,128

UNITED STATES PATENT OFFICE.

CHARLES WACHTEL, OF NEW HYDE PARK, NEW YORK, ASSIGNOR TO LEO SCHLESINGER & COMPANY, INC., OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

ELECTRIC BOUDOIR LAMP.

Application filed June 28, 1923. Serial No. 648,266.

o all whom it may concern: Be it known that I, CHARLES WACHTEL, a closed when the switch operating plunger is To all whom it may concern: citizen of the United States, residing at New moved into inoperative position. Hyde Park, county of Nassau, and State of The lamp is illustrated in the drawings in 5 New York, have invented certain new and the form of a candle stick having a circular 60 useful Improvements in Electric Boudoir hollow base 1 open at its bottom and sup-Lamps, of which the following is a specifiported on short rigid legs 2. A central vertical hollow post 3 is mounted on the cation. One of the principal objects of this inbase. The interior of this post is in com-10 vention is to provide a small ornamental munication with the interior of the base and 65 and readily portable self contained electric serves as a passage for the circuit wires. In lamp adapted for household use. the upper end of the post is formed an en-Another important object of the invention larged chamber adapted to receive a cupis to provide a small portable self contained like receptacle 4 of insulating material. 15 electric lamp with means whereby the lamp Into the upper end of this receptacle is 70 circuit will be interrupted when the lamp screwed a metal lamp socket 5 designed to is placed on a table or other support, and receive the threaded end of a lamp bulb 6. will be complete or closed when the lamp Threaded through the bottom of the cup 4 is lifted and carried about in the hand. is a terminal 7 to the lower end of which, Another object of the invention is to prowithin the post 3, is connected one wire 8 of 75 20vide means whereby the lamp circuit may be the lamp circuit. The terminal 7 is adapted permanently closed so that it will not be afto engage the central contact of the lamp fected by placing the lamp on a table or supbase. The other terminal of the lamp is port, or lifted therefrom. connected to the threaded outer shell of the The lamp is illustrated in the drawings in lamp base which forms an electrical con- 80 25the form of a candle stick, but of course it nection with the threaded socket 5 in the will be understood that it may be made up usual manner. Connected to the socket 5 is in any suitable form. the other wire 9 of the lamp circuit, said In the drawings, Fig. 1 is a side elevation wire being carried downwardly through the 30 of the lamp; insulating cup 4 and thence downwardly 85 Fig. 2 a vertical central sectional view through the tubular post 3. The circuit wire thereof resting on a support and the lamp 8 is carried into the lamp base and is rigidly circuit interrupted; connected to a contact plate 10; and the cir-Fig. 3 a vertical sectional view of the base cuit wire 9 is carried into the lamp base and 35 of the lamp showing it raised from its sup- connected to the contact plate 11 mounted 90 port with the lamp circuit complete or on the inner side of the circular side wall closed; of the base. Fig. 4 a diagrammatic view illustrating The lower side of the base is closed by a how the lighting circuit is opened by placbottom plate 12, which preferably is of sheet 40 ing the lamp on a support; metal and is hinged to the lower edge of the 95 Fig. 5 a bottom plan view of the lamp base at 13. The hinge 13 is in direct enwith the bottom plate in open position; gagement with a contact plate 14 secured to Fig. 6 a bottom plan view of the lamp the inner surface of the side wall of the with the bottom plate in closed position; base, said contact plate being adapted to be Fig. 7 a detail vertical sectional view of engaged by one of the poles a of \hat{a} dry bat- 100 the switch operating plunger; tery 15, the dry battery fitting within the Fig. 8 a detail bottom plan view of a por-hollow base as shown in Fig. 5. The other tion of the base showing the switch operat- pole b of the battery is adapted to engage ing plunger moved into inoperative posi- the contact plate 11. The short rigid legs 50 tion; 2 are connected to the bottom plate 12 and 105 Fig. 9 a detail vertical sectional view of the lower edge of the annular wall of the a portion of the base showing the switch bottom is cut out slightly to receive the botoperating plunger in the position shown in tom plate, so that the lower surface of said Fig. 8; and plate is flush with the lower edge of the Fig. 10 a diagrammatic view illustrating 55 base. 110

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vertical contact member 16 and a depend- The plunger is so adjusted as to length that ing tubular post 17, said post being open at when the lamp is raised from its support the its lower end. Sliding vertically in said lower end of the plunger will be below the 5 tubular post is a stud 18 which carries at lower ends of the supporting legs 2. This 70 its lower end a horizontal plate 19 and be- position of the plunger is illustrated in Fig. tween said plate and surrounding the post 17 is a light coil spring 20, said spring tending to force the plate 19 downwardly. The the plunger to move upwardly into the base 10 plate 19 carries an upstanding flat contact plate 21 which is in constant sliding engagement with the contact member 16. The from the closure plate 12 and thereby opens plate 19 also carries a depending contact the lamp circuit. When the lamp is lifted pin 22, which normally engages the bottom 15 plate 12 and makes electrical contact therewith. The lamp circuit is normally closed through the battery poles and contacts 11 and 14 thence through the hinge 13, bottom plate 12 and contact pin 22, the plate 19 and 20 its contact members constituting a normal closed switch. A switch operating plunger 23 is carried plunger is carried laterally out of operative by the bottom plate 12 directly below the relation to the switch plate. The end of the switch plate 19. This switch operating 25 plunger is mounted in a lever 24 pivoted form an inclined cam surface, directly over 90 to the under side of the bottom plate 12. the end of the plunger, when it is in its non-This lever is formed with a vertical opening in the tubular part 25, the upper end of which projects through a slot 26 formed in the bottom plate. The switch operating stick in its upper non-operating position. $\mathbf{30}$ plunger is provided with an upper tip 27 of It is manifest that the dry battery may be insulating material which is adapted to en- readily removed from the lamp base and gage the switch plate 19 and force it up- that it will be locked within the lamp base wardly to thereby lift the contact pin 22 by the closure plate 12. The closure plate is 35 away from the bottom plate 12. The slotted at one edge to receive a turn button 100 plunger slides freely in the tube 25 and is 30, said button forming a simple lock to provided with a collar 28 at its upper end hold the plate 12 in its closed position. which is adapted to engage the upper end From the foregoing it is clear that I proof the tubular part 25 and serve as a stop to vide a very simple portable self contained 40 plunger. The lower end of the plunger is When the switch operating plunger is propprovided with a downwardly adjustable erly adjusted the lamp may be lighted by contact head 29 which is adapted to engage merely lifting it from its support. The the table or support on which the lamp lamp will be extinguished by placing it back diameter to engage the lower end of the maintain the light it is only necessary to tubular portion 25 and thereby limit the move the lever 24 and thereby shift the upward movement of the plunger. The switch operating plunger into its non-opplunger is mounted on the lever 24 so that it erating position. 50 may be swung laterally out of the path of the switch plate 19, as shown in Figs. 8 and 1. An electric lamp comprising a tubular 9 of the drawings. In this position of the standard, a hollow wide base supporting the plunger it is inoperative to open the lamp standard and open at its under side, a lamp circuit and the said circuit will remain socket at the top of the standard, circuit

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The contact plate 10 carries a depending bring about the opening of the lamp circuit. 3. When the lamp is placed on a support the weight of the lamp is sufficient to cause and thereby force upwardly the switch plate 75 19. This moves the contact plate 22 away from its support the spring 20 forces the switch plate 19 downwardly to bring the 80 contact pin 22 into engagement with the plate 12. This closes the lamp circuit. The plunger will be forced downwardly by the spring if it does not drop by gravity. By swinging the lever 24 on its pivot, as shown 85 in Figs. 8 and 9 the switch operating switch plate is turned upwardly at 19^a to operating position. This prevents the end of the plunger engaging and locking on the edge of the switch plate should the plunger -95limit the downward movement of the electric lamp adapted for household use. 105 rests. The contact head 29 is of sufficient on its support. Whenever it is desired to 110 What I claim is: 115

closed. With the lever 24 in position to wires connected at their upper ends to said 120 55 bring the switch operating plunger below lamp socket and extending downwardly the switch plate, as illustrated in Figs. 2, through the standard into the hollow base, 3 and 6, the plunger will act to force the fixed contacts secured to the inner side of switch plate upwardly and thereby open the the base and connected to the said wires, a lamp circuit. The plunger slides freely thin flat electric battery disposed horizon-125 through the lever 24 and the tubular hous- tally in said hollow base and carrying coning so that when the lamp is placed on a tacts adapted to engage the said contacts sesupport there will be a relative vertical cured within the base, said battery being movement between the lamp body and the adapted to be inserted and removed flatwise 65 plunger and this relative movement will through the lower open side of the base, 130

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means for holding said battery in place, a plunger upwardly and open the lamp circuit. 55 normally closed yieldable switch in the lamp 4. An electric lamp comprising a hollow circuit and mounted in the hollow base, base, a standard carried thereby, a lamp means operated by the weight of the lamp socket at the top of the standard, a metal 5 to open said switch, and manually operable plate hinged to the base and serving as a switch operating means out of operative re- cally movable switch plate electrically conlation to the switch.

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means exterior of the lamp to move the closure plate for the bottom thereof, a verti- 60 nected to the lamp socket, a contact pin car-2. An electric lamp comprising a tubular ried by the switch plate, a battery in the

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- 10 standard, a hollow wide base supporting the base having one of its poles in electrical conplate to close the under side of the base, a pole in electrical connection with the lamp lamp socket at the top of the standard, cir-socket, a spring engaging the switch plate cuit wires connected at their upper ends to and normally forcing its said contact pin said lamp socket and extending downwardly into engagement with the metal closure fixed contacts secured to the inner surface oted on the closure plate, and a vertically of the side wall of the base and connected to movable switch operating plunger carried the said wires, a thin flat electric battery by said lever beneath the switch plate and 20 disposed horizontally in said hollow base extending below said closure plate and adapted to engage the said contacts secured by the weight of the lamp will force said within the base, said battery being adapted plunger upward against the switch plate and to be inserted and removed flatwise through open the lamp circuit, the said lever being 25 the lower open side of the base, the said manually adjustable to move the said pluntery in place, a normally closed yieldable plate. switch in the lamp circuit and mounted in 5. An electric lamp comprising a base, a the hollow base, means carried by the cover lamp socket, an electric battery electrically 30 and operated by the weight of the lamp to connected with said socket, a switch in the
 - standard and open at its under side, a cover nection with the closure plate and its other 65 through the standard into the hollow base, plate to close the lamp circuit, a lever piv- 70 and carrying contacts at one of its ends adapted to engage a table or support, where-75 cover serving as means for holding said bat- ger out of operative relation with the switch 80

- the lamp to move the switch operating means weight of the lamp to open said switch, the out of operative relation to the switch.
- 35 plate hinged to the base and serving as a whereby the switch opening means are renclosure for the bottom thereof, a vertically dered ineffective to open the switch. 40 movable switch plate electrically connected 6. An electric lamp comprising a base, a the switch plate, a battery in the base hav- connected with said socket, a normally ing one of its poles in electrical connection closed switch in the lamp circuit, a vertiwith the closure plate and its other pole in cally reciprocable switch operating member 45 electrical connection with the lamp socket, adapted to be forced upwardly by the weight mally forcing the said contact pin into en- and break the lamp circuit, and means to gagement with the metal closure plate to move said member laterally out of the way close the lamp circuit, and a vertically mov- of the switch to render it inoperative as a ⁵⁰ able switch operating plunger mounted on switch opening means. the closure plate below the switch plate and In testimony whereof I hereunto affix my 105
- open said switch, and manually operable lamp circuit, means for yieldingly holding 85 means carried by the cover and exterior of said switch closed, means operated by the switch opening means and the switch being 3. An electric lamp comprising a hollow mounted for a relative movement out of opbase, a standard carried thereby, a lamp erative relation, and manually adjustable 90 socket at the top of the standard, a metal means for causing said relative movement to the lamp socket, a contact pin carried by lamp socket, an electric battery electrically 95 a spring engaging the switch plate and nor- of the lamp to engage and open said switch 100

extending below the said closure plate and signature. adapted to engage a table or support whereby the weight of the lamp will force said

CHARLES WACHTEL.