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H. C. ADAM.

LIGHTING FIXTURE.

APPLICATION FILED JULY 23, 1915.



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UNITED STATES PATENT OFFICE.

HARRY C. ADAM, OF ST. LOUIS, MISSOURI.

LIGHTING-FIXTURE.

Specification of Letters Patent. Patented Jan. 4, 1916.

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fixture for sustaining a frangible, bowl-To all whom it may concern: shaped shield that is arranged under the Be it known that I, HARRY C. ADAM, a citizen of the United States, residing at St. lighting unit. Louis, Missouri, have invented a certain Referring to the drawings, which illus- 60 trate the preferred form of my invention, 5 new and useful Improvement in Lighting-Fixtures, of which the following is a full, A designates the diffusing bowl of a semiindirect lighting fixture and B designates a clear, and exact description, such as will supporting means which may either consist enable others skilled in the art to which it of chains, screw eyes or other suitable de- 65 appertains to make and use the same. vices that are connected to a ceiling B' or 10 This invention relates, primarily, to deto a top reflector that is arranged above the vices that are adapted to be connected to a bowl A. The bowl A is connected to the member formed of glass or other frangible material, so as to support said member or supporting means B by a plurality of devices, each of which comprises a member C 70 act as a connection between said member 15 and a part with which said member coöparranged inside of the bowl and a clamping member D having a portion that engages the erates. outer side of the bowl. The member C is The main object of my invention is to provided with a laterally-projecting supprovide a device of the character described porting portion 1 that projects outwardly 75 that can be applied quickly to a glass memthrough an opening 2 in the bowl and sus-20 ber or other frangible member without liatains the weight of the bowl. The clamping bility of cracking or breaking said member. member D is provided with a shank 3 that Another object is to provide a device of projects inwardly through the opening 2 in the character described which is so conthe bowl and through an opening 1^a in 80 structed that it will be held securely in enthe member C, said shank 3 being provided 25 gagement with the member to which it is at its outer end with a head that bears applied by spring pressure. And still anagainst the outer side of the bowl, as shown other object is to provide an efficient device in Fig. 1. Said members C and D are held for connecting the shade or other frangible securely in engagement with the inner and 85 element of a lighting fixture to the part outer surfaces, respectively, of the bowl by 30 that carries same, said device comprising a a resilient means that acts on the shank 3 supporting portion that sustains the weight of the clamping device D and exerts presof the element to which the device is apsure on said shank in such a direction that plied and a resilient clamping means that the head at the outer end of same will 90 prevents said element from being disenbe drawn inwardly toward the member C, 35 gaged from the supporting portion of the thereby securely clamping the bowl in posidevice. tion between the members C and D and pre-Other objects and desirable features of my venting the bowl from moving out of eninvention will be hereinafter pointed out. gagement with the portion 1 of the mem- 95 Figure 1 of the drawings is a cross-secber C that sustains the weight of the bowl. 40 tional view, partly in elevation, illustrating In the preferred form of my invention as my invention used in connection with the herein shown said resilient means consists the diffusing shield of a lighting fixture. of a spring arm 4 on the lower end of the Fig. 2 is a horizontal sectional view taken member \overline{C} which extends approximately 100 on the line 2-2 of Fig. 1. Fig. 3 is a perparallel to the member C and engages a 45 spective view of one of my improved de-vices, and Fig. 4 is a horizontal sectional shoulder 3^a on the shank 3 of the memview illustrating a slight modification of my ber D. It is immaterial, so far as my broad idea invention. is concerned, how the spring arm 4 is com- 105 My improved device is adapted to be used bined with the shank 3, but I prefer to pro-50 for various purposes, but it is particularly vide said arm 4 with a key-hole-shaped slot adapted for use in a direct or semi-indirect or opening 5 and provide the shank 3 with lighting fixture for connecting the shield a reduced portion 3^b, as shown in Fig. 3, so that is arranged under the source of light to that said shank can be inserted through the 110 the means that sustains said shield. Thereopening 5 in the arm 4, and then moved 55 fore, I have herein illustrated my improved downwardly sufficiently to cause the reduced device used in connection with a lighting

2 1,166,878

portion 3^b of the shank to lie in the narrow portion of the opening 5 in the arm 4, thereby causing the arm 4 to bear against the shoulder 3^a on the shank 3 and exert pres-5 sure on same in the direction indicated by the arrow in Fig. 1. To attach the device to the bowl A it is only necessary to arrange the member C on the inside bowl, then insert the shank of the member D through the 10 openings in the bowl, in the member C and in the arm 4, and thereafter press the arm 4 toward the member C and simultaneously depress the inner end of the shank 3, so that the reduced portion 3^b of said shank will 15 enter the contracted portion of the opening in said arm 4. If it is desired to disconnect the device from the bowl it is only necessary to flex the spring arm 4 sufficiently to take the pressure off the shank of the clamping 20 device D, thus permitting the device D to be tilted into such a position that the shank of same can be withdrawn through the openings in the arm 4, in the member C and in the bowl.

1 and the opening 1^a in the member C are preferably formed by slitting said member C and bending the slitted portion laterally, as in Fig. 3, thus simplifying the construction of the device and reducing the cost of 70 the manufacture of same. The spring arm 4 is integrally connected to the lower end of the member C in the manner shown in Fig. 1, so that the element as an entirety that is arranged on the inside of the bowl consists 75 of a substantially U-shaped part, one leg of which exerts yielding pressure on the shank of a clamping member that bears against the outer side of the bowl, and thus prevents the bowl from moving out of engagement 80 with the supporting portion 1 of the member that is arranged on the inside of the bowl. Having thus described my invention, what I claim, and desire to secure by Letters 35 Patent, is: 1. A device for the purpose described, comprising a member that is adapted to be arranged on one side of the object with which the device coöperates, said member 90 having a supporting portion that projects into an opening in said object, and a clamping member arranged on the opposite side of said object and provided with a shank that projects through the opening in said 95 object.

A device of the construction above de-25scribed can be applied to or removed quickly from the member A, in view of the fact that it is not secured to said member by a screwthreaded fastening device. There is no lia-30 bility of the member A being cracked or broken, as often occurs when a two-piece clamping member is being applied to the glass bowl of a lighting fixture; and still

2. A device for the purpose described, comprising a member that is adapted to be arranged on one side of the object with which the device coöperates, said member 100 having a supporting portion that projects into an opening in said object, a clamping member arranged on the opposite side of said object and provided with a shank that projects through the opening in said object, 105 and resilient means that coöperates with said shank to hold said members in engagement with said object. 3. A device for the purpose described, comprising two members that are adapted 110 to be arranged on opposite sides of the object with which the device coöperates, one of said members having a resilient arm that shaped opening and the other member hav- 115 and which is provided intermediate its ends with a reduced portion that normally lies

another desirable feature of such a device is 35 that the weight of the bowl is sustained by a portion 1 on one of the members between which the bowl is clamped, instead of by the shank of the device that passes through said members and holds them in engagement 40 with the bowl.

In the preferred form of my invention as herein shown the inside member C is provided with an integral hook 6 that serves to connect said member to the supporting 45 means B, but this, of course, is a detail that can be varied without departing from the spirit of my invention. The member C can either be formed flat so that it will bear directly against the inner side of the bowl, as is provided with a substantially key-hole-50 shown in Fig. 4, or said member can be provided with flanges 7, as shown in Fig. 3, ing a shank that passes through the object that embrace a vertically-disposed rib or corrugation on the bowl, as shown in Fig. 2, and thus prevent the member C from in a contracted part of said key-hole-shaped 55 turning with relation to the bowl into an inopening and thus serves to connect said 120 clined or horizontal position. The memshank and resilient arm together. ber C of the device is preferably stamped 4. A device for the purpose described, out of sheet metal and all the various elecomprising two members that are adapted ments of same are integrally connected toto be arranged on opposite sides of the object with which the device coöperates, one 125 60 gether, the shank of the hook 6 being curved slightly in cross section and the upper end of said members having a resilient arm that of same being wrapped around a strengthis provided with a substantially key-holeening device 6^a which preferably consists of shaped opening and the other member hava piece of wire bent into hook form, as ing a shank that passes through the object 65 shown in Fig. 1. The supporting portion and which is provided with a reduced por- 130

1,166,878

tion that normally lies in a contracted part of said key-hole-shaped opening, and a supporting portion on the member that has the arm which sustains the weight of the object. 5 5. A device for the purpose described, comprising a member that is adapted to be arranged on the inner side of the object with which the device coöperates, said member being provided with a laterally-project-10 ing supporting portion that enters an opening in said object, an integral device at the upper end of said member for connecting it member that projects inwardly through an 40 to a sustaining means, a spring arm attached opening in the shield, a spring arm on said to the lower end of said member and ex-15 tending approximately parallel to same, and a clamping member arranged on the outer side of the object and provided with a shank that projects inwardly through the object and which is provided with a shoulder that 20 is engaged by the spring arm on the inner member. 6. In a lighting fixture, a shield arranged under a source of light, a sustaining means for said shield composed of a plurality of 25 devices, each of which consists of an inner and an outer member arranged on opposite sides of the shield, a shank on said outer member that projects inwardly through an

opening in the shield, and a spring arm on said inner member that exerts pressure on 30 said shank in a direction tending to hold both members clamped tightly against the shield.

7. In a lighting fixture, a shield arranged under a source of light, a sustaining means 35 for said shield composed of a plurality of devices, each of which consists of an inner and an outer member arranged on opposite sides of the shield, a shank on said outer

3

inner member that exerts pressure on said shank in a direction tending to hold both members clamped tightly against the shield, said inner member being provided with a 45 supporting portion that enters an opening in the shield, and an integral device on said inner member for connecting it to a sustaining means.

In testimony whereof I hereunto affix my 50 signature in the presence of two witnesses. this twenty-first day of July, 1915. HARRY C. ADAM.

Witnesses: WELLS L. CHURCH,

GEORGE BAKEWELL

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."

