

Title (en)  
ULTRATHIN PROJECTING LAMP

Title (de)  
ULTRADÜNNE PROJEKTIONSLAMPE

Title (fr)  
LAMPE DE PROJECTION ULTRAMINCE

Publication  
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Application  
**EP 13831925 A 20131227**

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Abstract (en)  
The present patent application discloses a slim spotlight including a surface cover, a glass plate, a rubber ring, a reflector cover, a light expansion hood, a waterproof ring, a bolt, a seal ring, a nut, a mounting bracket and a body. A LED circuit without power supply is set between the light expansion hood and the body. The rear side of the body has a plurality of screw holes and the screw holes pass through the body. The cover is provided with a plurality of hidden holes which match up with the screw holes. The output port of the LED circuit comprises a rectifier bridge, a safety capacitor, a piezoresistor and a filter capacitor. The safety capacitor is connected in series between a firing line and a null line; the piezoresistor is connected in series between the firing line and the null line; the input port of the rectifier bridge connects with the firing line and the null line; the output port of the rectifier bridge connects the positive lead of the filtering capacitor; the input port of the LED circuit connects a number of high-voltage LED lamp beads in series. The slim spotlight adopts a plurality of screw holes on the back of the body to mount the surface cover which offers a large light emitting area and ensures a slim outer housing. The electrical circuit of the slim spotlight uses the high-voltage LED lamp beads and eliminates the power supply which makes the slim spotlight thinner and lighter.

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