

# United States Patent of Waterproof

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**United States Patent**

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US009791143B2

(12) **United States Patent**  
**Kim et al.**

(10) **Patent No.:** **US 9,791,143 B2**  
(45) **Date of Patent:** **Oct. 17, 2017**

- (54) **DOUBLY-SEALED WATERPROOF FLOODLIGHT AND METHOD FOR SAME**
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- (\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 16 days.

- (52) **U.S. CL.**  
CPC ..... **F21V 31/005** (2013.01); **F21K 9/90** (2013.01); **F21V 29/2212** (2013.01); (Continued)
- (58) **Field of Classification Search**  
CPC ..... **F21V 31/005**; **F21V 29/763**; **F21V 31/00** (Continued)

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(57) **ABSTRACT**

A doubly-sealed waterproof floodlight includes a heat dissipating portion, a lighting portion coupled to the bottom end of the heat dissipating portion, and a cover filled and coated with a sealing material, doubly-sealed, and integrally coupled to the heat dissipating portion. The heat dissipating portion includes a sealing portion formed on a side end of the heat dissipation portion, coated with the sealing material, and coupled to the cover. The cover includes a coupling portion formed on the top end of a side surface thereof. The coupling portion includes a sealing groove into which sealing material is filled for adhering and coupling the heat dissipating portion, a protruding support portion extending from the sealing groove, and a bottom surface portion which is flatly formed at a position lower than the protruding support portion, and in which the sealing material coated on the sealing portion is filled.

**12 Claims, 7 Drawing Sheets**



