

Title (en)

LIGHT RECEIVER DEVICE HAVING A SHIELDING DEVICE EXTENDING ON A BACK SIDE OF A SUBSTRATE

Title (de)

LICHTEMPfangSEINRICHTUNG MIT EINER SICH AUF EINE SUBSTRATRÜCKSEITE ERSTRECKENDEN ABSCHIRMVORRICHTUNG

Title (fr)

DISPOSITIF RÉCEPTEUR DE LUMIÈRE MUNI D'UN DISPOSITIF DE BLINDAGE QUI S'ÉTEND SUR LE CÔTÉ ARRIÈRE D'UN SUBSTRAT

Publication

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Application

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Priority

EP 2008064657 W 20081029

Abstract (en)

[origin: WO2010048991A1] The invention relates to a light receiver device (140), particularly provided for a smoke detector (100). The light receiver device (140) comprises a flat substrate (110, 210, 310), a light receiver (142) mounted on a front side of the substrate (110, 210, 310), and a shielding device (150) present on at least a back side of the substrate (110, 210, 310) opposite the front side. The shielding device (150) is designed such that it at least partially shields against electromagnetic interference radiation impinging on the light receiver (142) through the substrate (110, 210, 310). False alarms are thereby reduced, while the sensitivity of the light receiver is simultaneously increased. The shielding device comprises a metal strip inserted through the substrate from the front side to the back side, and bent over a recess on the back side provided therefor, so that the light receiver is protected against interference radiation even on the back side. The invention further relates to an assembly method for producing a light receiver device (140).

IPC 8 full level

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CPC (source: EP US)

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