

Title (en)  
PHOTODETECTOR AND USE OF THE SAME

Title (de)  
PHOTODETEKTOR UND SEINE VERWENDUNG

Title (fr)  
PHOTODETECTEUR ET SON UTILISATION

Publication  
**EP 1060523 A2 20001220 (DE)**

Application  
**EP 99911706 A 19990225**

Priority  
• DE 19808936 A 19980303  
• EP 9901206 W 19990225

Abstract (en)  
[origin: DE19808936A1] The invention relates to a device for detecting electromagnetic radiation, characterised in that it has i) a photoactive layer consisting of a semiconductor with a band gap of over 2.5 eV, ii) a dye which is applied to the semiconductor and iii) a charge transfer layer containing a hole conductor material, said hole conductor material being preferably solid and amorphous.

IPC 1-7  
**H01L 51/20**

IPC 8 full level  
**H01G 9/00** (2006.01); **C07C 17/12** (2006.01); **C12N 11/02** (2006.01); **C12N 11/14** (2006.01); **G01N 21/64** (2006.01); **G01N 21/76** (2006.01); **G01N 33/483** (2006.01); **G01N 33/50** (2006.01); **G01N 33/533** (2006.01); **G01N 33/535** (2006.01); **G01N 33/58** (2006.01); **G03G 5/06** (2006.01); **H01G 9/20** (2006.01); **H01L 27/146** (2006.01); **H01L 31/00** (2006.01); **H01L 31/0256** (2006.01); **H10K 99/00** (2023.01)

CPC (source: EP KR US)  
**C07C 17/12** (2013.01 - EP US); **C09B 1/00** (2013.01 - EP); **C09B 3/78** (2013.01 - EP); **C09B 17/00** (2013.01 - EP); **C09B 19/00** (2013.01 - EP); **C09B 21/00** (2013.01 - EP); **C09B 57/00** (2013.01 - EP); **C09B 57/008** (2013.01 - EP); **C09B 57/10** (2013.01 - EP); **H01L 31/115** (2013.01 - KR); **H10K 30/151** (2023.02 - EP KR US); **H10K 39/32** (2023.02 - US); **H10K 85/615** (2023.02 - EP US); **H10K 85/626** (2023.02 - EP US); **H10K 85/631** (2023.02 - EP US); **H10K 85/633** (2023.02 - EP US); **H10K 39/32** (2023.02 - EP KR); **H10K 85/344** (2023.02 - EP US); **H10K 85/649** (2023.02 - EP US); **H10K 85/652** (2023.02 - EP US); **H10K 85/6565** (2023.02 - EP US); **H10K 85/6572** (2023.02 - EP US); **Y02E 10/549** (2013.01 - EP US); **Y02P 70/50** (2015.11 - EP US); **Y10S 435/808** (2013.01 - EP US); **Y10S 436/805** (2013.01 - EP US)

C-Set (source: EP US)  
**C07C 17/12 + C07C 25/22**

Designated contracting state (EPC)  
AT BE CH FR GB LI NL SE

DOCDB simple family (publication)  
**DE 19808936 A1 19990916**; AU 3030199 A 19990920; AU 757033 B2 20030130; BR 9909240 A 20001114; CA 2322458 A1 19990910; EP 1060523 A2 20001220; JP 2002506290 A 20020226; KR 20010041495 A 20010525; US 6664071 B1 20031216; WO 9945595 A2 19990910; WO 9945595 A3 19991223

DOCDB simple family (application)  
**DE 19808936 A 19980303**; AU 3030199 A 19990225; BR 9909240 A 19990225; CA 2322458 A 19990225; EP 9901206 W 19990225; EP 99911706 A 19990225; JP 2000535052 A 19990225; KR 20007009663 A 20000901; US 62295600 A 20000926