

Title (en)  
ORGANIC DIODES WITH SWITCHABLE PHOTSENSITIVITY

Title (de)  
ORGANISCHE DIODEN MIT SCHALTBARER PHOTOEMPFINDLICHKEIT

Title (fr)  
DIODES ORGANIQUES A PHOTSENSIBILITE COMMUTABLE

Publication  
**EP 1027741 A4 20051012 (EN)**

Application  
**EP 98939408 A 19980814**

Priority

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Abstract (en)  
[origin: WO9909603A1] Organic diode detectors (10) with switchable photosensitivity are achieved using organic photo layers (12) in the photodiodes and a detector circuit (15, 16) which applies a reverse or forward bias voltage across the diodes. These diodes can be arranged in matrices which function as high-performance, two-dimensional image sensors. These image sensors can achieve full color or selected color detection capability.

IPC 1-7  
**H01L 27/00**; H01L 51/20; H01L 27/146

IPC 8 full level  
**G01T 1/20** (2006.01); **G01T 1/29** (2006.01); **G01T 1/36** (2006.01); **H01L 27/146** (2006.01); **H01L 27/30** (2006.01); **H01L 31/10** (2006.01); **H01L 51/00** (2006.01); **H01L 51/05** (2006.01); H01L 51/30 (2006.01); H01L 51/42 (2006.01)

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**B82Y 10/00** (2013.01); **H01L 27/14643** (2013.01); **H10K 10/50** (2023.02); **H10K 30/20** (2023.02); **H10K 30/30** (2023.02); **H10K 30/451** (2023.02); **H10K 39/32** (2023.02); **H10K 85/113** (2023.02); **H10K 85/114** (2023.02); **H10K 85/115** (2023.02); **H10K 85/143** (2023.02); **H10K 85/146** (2023.02); **H10K 85/211** (2023.02); **H10K 85/631** (2023.02); **Y02E 10/549** (2013.01)

Citation (search report)

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