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(71) Applicant: UNIAX CORPORATION [US/US]; 6780 Cortona Drive, Santa Barbara, CA 93117 (US).

(72) Inventors: YU, Gang; 667 Camino Campana, Santa Barbara, CA 93111 (US). CAO, Yong; 436 Pomona Court, Goleta, CA 93117 (US).

(74) Agent: BENZ, William, H.; Burns, Doane, Swecker & Mathis, L.L.P., P.O. Box 1404, Alexandria, VA 22313-1404 (US).

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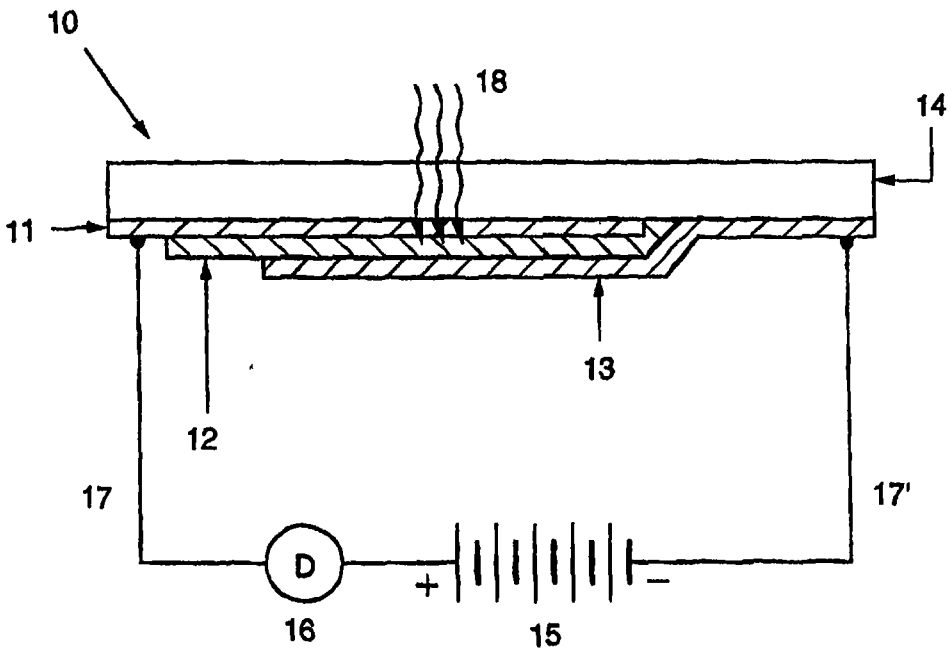
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(54) Title: ORGANIC DIODES WITH SWITCHABLE PHOTOSENSITIVITY



(57) Abstract

Organic photodetectors with switchable photosensitivity are achieved using organic photoactive layers in electrode/organic/electrode structures. The photosensitivity can be switched on and off by the biasing voltage across the detectors. The photocurrent can be probed with a read-out circuit in the loop. These photodetectors can be arranged in linear arrays or in two-dimensional matrices that function as high performance, linear or two-dimensional image sensors. These image sensors can achieve full color or selected color detection capability.