

Title (en)

POLYMER SEMICONDUCTOR DEVICE COMPRISING AT LEAST A RECTIFYING FUNCTION AND METHOD FOR MAKING SAME

Title (de)

POLYMERE HALBLEITERANORDNUNG MIT EINER GLEICHRICHTENDEN FUNKTION UND DEREN HERSTELLUNG

Title (fr)

DISPOSITIF SEMICONDUCTEUR EN POLYMERE COMPORTANT AU MOINS UNE FONCTION REDRESSEUSE ET PROCEDE DE FABRICATION D'UN TEL DISPOSITIF

Publication

EP 0968538 A1 20000105 (FR)

Application

EP 98906977 A 19980205

Priority

- FR 9800212 W 19980205
- FR 9701485 A 19970210

Abstract (en)

[origin: FR2759495A1] The invention concerns a polymer semiconductor device comprising a rectifying function formed by a polymer film (12) between a first (11) and a second (13) electrode, the polymer film constituting a host matrix for polar molecules, the polar molecules being electrically oriented in a direction perpendicular to the electrodes, the electric charges of the polar molecules having the same sign being directed towards the same electrode. The invention also concerns a method for making such a device.

IPC 1-7

H01L 51/30

IPC 8 full level

H01L 51/30 (2006.01); **H01L 51/05** (2006.01); **H01L 51/40** (2006.01); **H01L 51/50** (2006.01)

CPC (source: EP US)

H10K 30/451 (2023.02 - US); **H10K 50/11** (2023.02 - EP US); **H10K 30/451** (2023.02 - EP); **H10K 30/50** (2023.02 - EP); **H10K 85/141** (2023.02 - EP US); **Y02E 10/549** (2013.01 - EP US); **Y02P 70/50** (2015.11 - EP US)

Cited by

CN1328068C; US7297621B2

Designated contracting state (EPC)

DE GB IT

DOCDB simple family (publication)

FR 2759495 A1 19980814; **FR 2759495 B1 19990305**; EP 0968538 A1 20000105; US 2003010973 A1 20030116; US 6545290 B2 20030408; WO 9835393 A1 19980813

DOCDB simple family (application)

FR 9701485 A 19970210; EP 98906977 A 19980205; FR 9800212 W 19980205; US 35592399 A 19990820