

Title (en)
COMPOUND

Title (de)
VERBINDUNG

Title (fr)
COMPOSÉ

Publication
EP 4263551 A1 20231025 (EN)

Application
EP 21839461 A 20211215

Priority
• GB 202019810 A 20201215
• EP 2021085841 W 20211215

Abstract (en)
[origin: WO2022129137A1] A compound of formula (I): EAG – EDG – EAG (I) wherein EDG is an electron-donating group of formula (II) each EAG is independently an electron accepting group of formula (III) (II) (III) each X is independently O or S; each Y is independently O, S, Se, NR8 or C(R9)2 wherein R8 and R9 independently in each occurrence are selected from H or a substituent; Ar3 and Ar4 independently in each occurrence is a monocyclic or polycyclic aromatic or heteroaromatic group; R1 and R2 independently in each occurrence is a substituent; R3 - R6 are each independently H or a substituent; Z1 is a direct bond or Z1 together with the substituent R4 forms Ar1 wherein Ar1 is a monocyclic or polycyclic aromatic or heteroaromatic group; Z2 is a direct bond or Z2 together with the substituent R5 forms Ar2 wherein Ar2 is a monocyclic or polycyclic aromatic or heteroaromatic group; p is 0, 1, 2 or 3; q is 0, 1, 2 or 3; R10 in each occurrence is H or a substituent; ---- represents a linking position to EDG; and R7 in each occurrence is H or a substituent with the proviso that at least one R7 is CN. The compound of formula (I) may be used as an electron acceptor in a bulk heterojunction layer of an organic photoresponsive device.

IPC 8 full level
C07D 495/04 (2006.01); **C07D 495/22** (2006.01); **H10K 99/00** (2023.01)

CPC (source: EP GB)
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