

Title (en)

FUNCTIONALISED  $\pi$ (P)-CONJUGATED POLYMERS, BASED ON 3,4-ALKYLENEDIOXYTHIOPHENE

Title (de)

FUNKTIONALISIERTE  $\pi$ -KONJUGIERTE POLYMERE AUF 3,4-ALKYLENEDIOXYTHIOPHEN-BASIS

Title (fr)

POLYMERES FONCTIONNALISES CONJUGUES  $\pi$ (P) A BASE DE 3,4-ALKYLENEDIOXYTHIOPHENE

Publication

**EP 1294791 A1 20030326 (DE)**

Application

**EP 01943342 A 20010510**

Priority

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- EP 0105362 W 20010510

Abstract (en)

[origin: WO0190212A1] The invention relates to polythiophenes of the formula (II), wherein Y = formula (III), formula (IV) or formula (V); Z = alkyl, aryl or alkylaryl; u = 0 or 1; m = 0 to 5; n = 2 to 500; X = (CH<sub>2</sub>)<sub>p+q</sub> or (CH<sub>2</sub>)<sub>p</sub>-O-(CH<sub>2</sub>)<sub>q</sub>; p, q = independently of one another 0 to 10 and R and R' independently of one another are identical to or different from H, represent a linear or branched C1 to C18 alkyl or alkoxy group or a linear or branched C1 to C18 alkyl or alkoxy sulfonate group. Said polythiophenes can be modified using the active ester function and have excellent electrical and optical properties.

IPC 1-7

**C08G 61/12**

IPC 8 full level

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CPC (source: EP US)

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