

Title (en)

ELECTRICALLY CONDUCTIVE ELECTROACTIVE FUNCTIONALIZED CONJUGATED POLYMERS, AND USES THEREOF

Title (de)

ELEKTRISCH LEITENDE, ELEKTROAKTIV FUNKTIONALISIERTE KONJUGIERTE KUNSTSTOFFE UND DEREN VERWENDUNG

Title (fr)

POLYMERES CONJUGUES FONCTIONNALISES CAPABLES D'ELECTROCONDUCTIVITE ET D'ELECTROACTIVITE, ET UTILISATIONS DE CES POLYMERES

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Application

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Abstract (en)

[origin: WO0031750A1] The invention relates to an electrically conductive, electroactive functionalized conjugated polymer of formula (I') wherein n is an integer or zero, each R, which may be identical or different from one monomer unit to one another, is H or a functional group capable of covalently bonding with a first biological molecule or antiligand selected from the group consisting of COON-hydroxyphthalimide, COOpentafluorophenol, electrochemical probes and electrochemical probes bound to an activated ester, with the proviso that (a) at least one said R of formula (I') represents said functional group or (b) is each YpR in formula (I') is identical, they are different from CH₂-COOH, each Yp, which may be identical or different from one monomer unit to one another, is a coupling arm wherein p is zero or an integer, wherein said polymer has a conductivity and an electroactivity which are substantially of the same order as a conductivity and an electroactivity of a corresponding polymer of formula (I'), in which each said R represents H.

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