

Title (en)

ELECTRICAL SUBSTRATE FOR USE AS A CARRIER OF BIOMOLECULES

Title (de)

LEITERPLATTE ZUR ELEKTROCHEMISCHEN DETEKTION VON BIOMOLEKÜLEN

Title (fr)

SUBSTRAT ELECTRIQUE DESTINE A ETRE EMPLOYE EN TANT QUE SUPPORT DE BIOMOLECULES

Publication

**EP 1604198 A2 20051214 (DE)**

Application

**EP 03799443 A 20031223**

Priority

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- DE 10261528 A 20021223

Abstract (en)

[origin: WO2004059305A2] The invention relates to an electrical substrate for use as a carrier of biomolecules in a method for electrochemical detection in an electrolytic solution. Said substrate comprises an insulating carrier plate (12) with a conductive pattern (20; 20A-20C, 28) containing printed conductors (20; 20A-20C) and connection contact surfaces. The printed conductors (20; 20A-20C) are equipped with test sites (24) for the application of biomolecules (26), comprise a metal core (14) consisting of a highly conductive base metal and an external gold layer (18) and are provided with a diffusion barrier layer (16), which prevents direct contact between the electrolytic solution and the metal core (14) during the electrochemical detection method.

IPC 1-7

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IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2004059305A2

Citation (examination)

- WIDMANN D ET AL: "Technologie hochintegrierter Schaltungen", 1996, SPRINGER, BERLIN
- BALCH M: "Just For Starters. What is a PCB?", NUTS & VOLTS, vol. 24, no. 12, December 2003 (2003-12-01), pages 17 - 20

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