

Title (en)  
METHODS FOR THE ELECTROCHEMICAL DETECTION OF MULTIPLE TARGET COMPOUNDS

Title (de)  
VERFAHREN ZUM ELEKTROCHEMISCHEN NACHWEIS MEHRERER ZIELVERBINDUNGEN

Title (fr)  
PROCEDES POUR LA DETECTION ELECTROCHIMIQUE DE PLUSIEURS COMPOSES CIBLES

Publication  
**EP 1583842 A2 20051012 (EN)**

Application  
**EP 02807275 A 20020717**

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Abstract (en)  
[origin: WO03089895A2] A method of detecting two different target molecules through a single electrode is carried out by (a) providing a conductive oxidation-reduction reaction detection electrode; (b) contacting a sample suspected of containing a first and second target molecule to the electrode under conditions in which the first and second target molecules are deposited on the electrode, wherein the first target molecule comprises a first label and the second target molecule comprises a second label; (c) contacting to the electrode a first transition metal complex that oxidizes the first preselected label in a first oxidation-reduction reaction and a second transition metal complex that oxidizes the first and second labels in a second oxidation-reduction reaction, with the first and second oxidation-reduction reactions producing different detectable signals; (d) detecting the presence of the first target molecule by detecting the first oxidation-reduction reaction; and (e) detecting the presence of the second target molecule by detecting the second oxidation-reduction reaction. Devices for carrying out the method are also described.

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