

Title (en)  
NOVEL DNA CHIPS

Title (de)  
NEUARTIGE DNA SONDEN

Title (fr)  
NOUVELLES PUCES A ADN

Publication  
**EP 1259644 A2 20021127 (FR)**

Application  
**EP 01911814 A 20010301**

Priority  
• FR 0100604 W 20010301  
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Abstract (en)  
[origin: FR2805826A1] Detecting a mutation at a particular position in a target nucleic acid, comprising binding the target to a solid support, hybridizing a probe to the target, elongating the probe with nucleotide(s) resistant to exonuclease, digesting the probe with exonuclease and detecting bound nucleic acid, is new. Detecting a mutation in position 'n' in a target nucleic acid, comprising: (a) hybridizing a probe 5' bound to a DNA chip solid support with a target nucleic acid, where the 3' extremity of the probe maximally hybridizes up to the 'n' position; (b) elongating the hybridized probe by incorporating 5' to 3' nucleotides complementary to the target nucleic acid using a reaction mixture comprising at least one nucleotide derivative which is resistant to degradation with an exonuclease and a DNA polymerase; (c) digesting with the exonuclease so that only the non-elongated probes are digested; (d) washing; and (e) detecting the mutation by measuring indirectly or directly the presence of DNA. An Independent claim is also included for a device for carrying out the above method.

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**C12Q 1/68**

IPC 8 full level  
**C12M 1/00** (2006.01); **C12N 15/09** (2006.01); **C12Q 1/68** (2006.01); **C12Q 1/6827** (2018.01); **C12Q 1/6837** (2018.01); **G01N 21/64** (2006.01); **G01N 27/04** (2006.01); **G01N 27/06** (2006.01); **G01N 27/327** (2006.01); **G01N 27/414** (2006.01); **G01N 27/416** (2006.01); **G01N 33/53** (2006.01); **G01N 33/566** (2006.01); **G01N 37/00** (2006.01)

CPC (source: EP US)  
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