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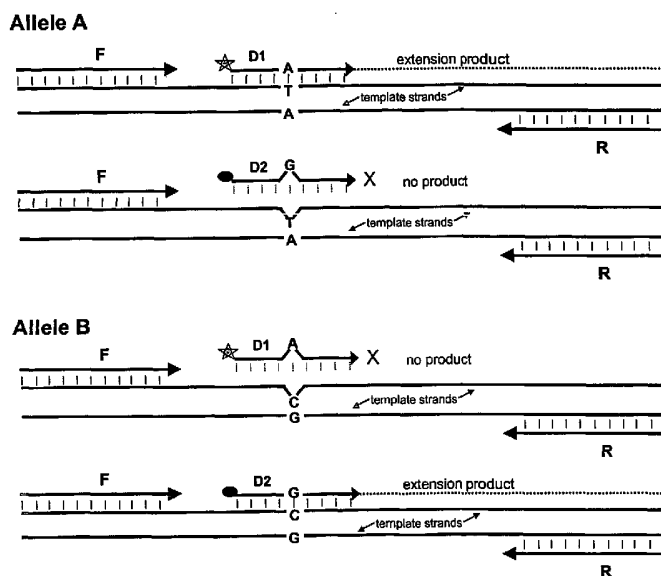
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(54) Title: SPECIFIC MULTIPLEX ANALYSIS OF NUCLEIC ACIDS



(57) Abstract: A method of detecting the presence or absence of variant nucleotides within target nucleic acid sequences, said method comprising the use of at least one pair of target-specific amplification primers capable of hybridizing to target nucleic acid sequences, and the use of at least one set of diagnostic primers, each set consisting of at least two types of diagnostic primers capable of hybridizing to corresponding target nucleic acid sequences 3'-relative to said amplification primers, such that each set of diagnostic primers is semi-nested relative to the corresponding pair of amplification primers. Additionally, the use of said method for genotyping, for diagnostic screening, for assaying the cytosine methylation status and for quantification of nucleic acids is disclosed.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

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PCT/EP 03/01276

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBASE, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	BOLDT B ET AL: "ONE-TUBE METHOD FOR COMPLETE HPA-1 GENOTYPING BY PCR USING SEQUENCE-SPECIFIC PRIMERS" BRITISH JOURNAL OF HAEMATOLOGY, OXFORD, GB, vol. 99, no. 4, December 1997 (1997-12), pages 968-973, XP001096153 ISSN: 0007-1048 Results figures 1,3	1-28
A	EP 1 061 135 A (BECTON DICKINSON CO) 20 December 2000 (2000-12-20) paragraphs '0006!, '0009!, '0016!; figure 35 --- -/--	1-28

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

° Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
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Int'l Application No
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	HAFF L A: "IMPROVED QUANTITATIVE PCR USING NESTED PRIMERS" PCR METHODS & APPLICATIONS, COLD SPRING HARBOR LABORATORY PRESS, US, vol. 3, no. 6, 1 June 1994 (1994-06-01), pages 332-337, XP000561192 ISSN: 1054-9803 cited in the application page 332, right-hand column, paragraph 2 ---	1-28
A	KWOK S ET AL: "Effects of primer-template mismatches on the polymerase chain reaction: human immunodeficiency virus type 1 model studies" NUCLEIC ACIDS RESEARCH, OXFORD UNIVERSITY PRESS, SURREY, GB, vol. 18, no. 4, 25 February 1990 (1990-02-25), pages 999-1005, XP002220845 ISSN: 0305-1048 page 1003, right-hand column, line 13 - line 21 -----	1-28

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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