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[Continued on next page]

(54) Title: ISOTHERMAL AMPLIFICATION OF NUCLEIC ACID

(57) Abstract: An amplification system that provides methods and reaction components that allow for completely isothermal amplification for detection of target nucleic acid 24; allow non-enzymatic amplification for detection of target nucleic acid 24; and can be used to identify amplicons without having to create separate individual probes for each target nucleic acid 24.

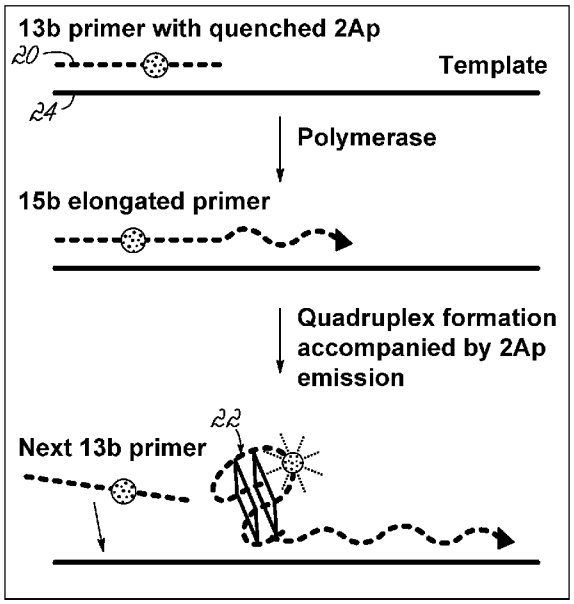

FIG. 2

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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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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)

C12Q 1/68; C07H 21/04; C12P 19/34

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: nucleic acid constrict, isothermal amplification, primers, DSPA(Dissoative Sequence Priming Amplification)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	FLETCHER, T. M. et al. `Effect of DNA secondary structure on human telomerase activity' Biochemistry, April 21 1998, Vol. 37, No. 16, pages 5536-5541.	14-17
A	See the abstract, pages 5536, 5540.	1-13,18-28
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A	US 2001-0039040 A1 (WIJNHOVEN, M. and ROSSAU, R.) November 08 2001. See the whole document.	1-28
A	US 2004-0115706 A1 (CHENG H. J. et al.) June 17 2004. See the whole document.	1-28

☐ Further documents are listed in the continuation of Box C.

☒ See patent family 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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"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
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Name and mailing address of the ISA/KR Korean Intellectual Property Office 189 Cheongsa-ro, Seo-gu, Daejeon Metropolitan City, 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer Kim, Jeong-Ah Telephone No. 82-42-481-8747

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Information on patent family members

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