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Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

[Continued on next page]

(54) Title: RETROACTIVE EXTRACTION OF CLINICALLY RELEVANT INFORMATION FROM PATIENT SEQUENCING DATA FOR CLINICAL DECISION SUPPORT

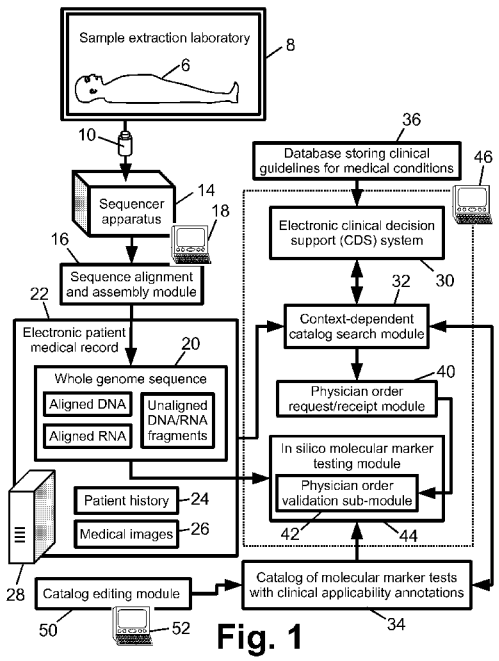


Fig. 1

(57) Abstract: A catalog (34) of molecular marker tests specifies molecular marker tests annotated with clinical applicability annotations. An electronic patient medical record (22) stores genetic sequencing data (20) of a patient. A clinical decision support (CDS) system (30) is configured to track the clinical context of the patient wherein the clinical context includes at least a disease diagnosis and a current patient care stage. A catalog search module (32) is configured to search the catalog of molecular marker tests to identify a molecular marker test having clinical applicability to the patient in the clinical context tracked by the CDS system. The search is automatically triggered by occurrence of a trigger event defined by a set of triggering rules. A testing module (44) is configured to perform a molecular marker test identified by the identification module in *silico* using the genetic sequencing data of the patient stored in the electronic patient medical record.

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— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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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 practicable, search terms used)
EPO-Internal, BIOSIS, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 962 878 A2 (ARMSTRONG GLENN [US]; PETRY CHRISTOPH [DE]; WAGNER GERALD [US]; WU ALA) 8 December 1999 (1999-12-08) abstract paragraphs [0001], [0006] paragraph [0010] - paragraph [0013] paragraphs [0030], [0035] paragraph [0037] - paragraph [0044] figures 1-3 ----- -/--	1-22

[X] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

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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/	Authorized officer
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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.
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Information on patent family members

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