(54) Title: OPTICAL BIO-DISCs AND MICROFLUIDIC DEVICES FOR ANALYSIS OF CELLS

(57) Abstract: The present invention is directed to optical bio-discs, methods, and optical disc drives for clinical diagnostics (Figure 1). The present invention is further directed to methods for determining the quantity of a specific type of blood cell in a biological sample including on-disc sample preparation and processing, providing a pre-processed sample onto a capture zone, removing portions of the sample that are not bound in the capture zone, and counting bound cells. Also disclosed are fluidic circuits for processing blood samples for use in a cluster designation marker assay in the optical bio-disc.
(88) Date of publication of the international search report:
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A. CLASSIFICATION OF SUBJECT MATTER
IPC(7) : G01N 33/543
US CL : 436/518
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)
U.S. : 436/518

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)
BAST, DERWENT

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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Date of the actual completion of the international search
03 April 2003 (03.04.2003)

Date of mailing of the international search report
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