

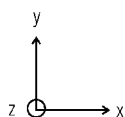
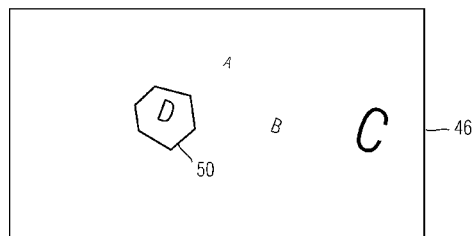
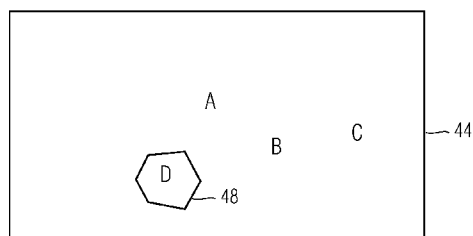


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- (81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
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[Continued on next page]

(54) **Title:** MICRODISSECTION METHOD AND INFORMATION PROCESSING SYSTEM

FIG. 9



(57) **Abstract:** In a first aspect, a method for use in biology, histology, and pathology, comprises: providing a digital first image (44) of a first slice (12) of an object (10) comprising biological material; generating a digital second image (46) of a second slice (14) of the object; determining a region of interest (50) in the second image on the basis of a region of interest (48) in the first image; determining a region of interest in the second slice on the basis of the region of interest (50) in the second image; and extracting material from the region of interest in the second slice. In another aspect, an information processing system, for use in biology, histology and pathology, comprises: a predefined set of process identifiers (64); a set of data records (68, 70, 72) associated with an object (10) comprising biological material, wherein each of the data records comprises: a slice identifier identifying a slice (12; 14) of the object, and a process identifier selected from the set of process identifiers, the process identifier indicating a process to which the slice is intended to be subjected; a user interface (52, 56, 58, 60) for enabling a user to select a data record (68) from the set of data records.

WO 2010/125495 A3



ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

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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))*

Declarations under Rule 4.17:

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

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INTERNATIONAL SEARCH REPORT

International application No

PCT/IB2010/051725

A. CLASSIFICATION OF SUBJECT MATTER

INV. G06T7/00

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)

G06T

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, COMPENDEX, INSPEC, IBM-TDB, 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 | US 2004/085443 A1 (KALLIONIEMI OLLI P [FI] ET AL) 6 May 2004 (2004-05-06) paragraph [0081] - paragraph [0218] paragraph [0446] - paragraph [0467] paragraph [0510] - paragraph [0523] | 1-9 |
| A | WO 2008/080403 A1 (VISIOPHARM AS [DK]; GRUNKIN MICHAEL [DK]; RASMUSSEN STEEN T [DK]; BJJJE) 10 July 2008 (2008-07-10) the whole document | 1-9 |

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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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

18 November 2010

Date of mailing of the international search report

26/11/2010

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2010/051725

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-9

Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-9

alignment of two image slices for material dissection

2. claims: 10-18

information processing system for controlling digital
pathology workflow

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2010/051725

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|--|------------------|-------------------------|------------------|
| US 2004085443 | A1 | 06-05-2004 | NONE |
| WO 2008080403 | A1 | 10-07-2008 | |
| | | AT 477558 T | 15-08-2010 |
| | | CN 101542527 A | 23-09-2009 |
| | | EP 2095332 A1 | 02-09-2009 |
| | | JP 2010511213 T | 08-04-2010 |
| | | US 2010215227 A1 | 26-08-2010 |