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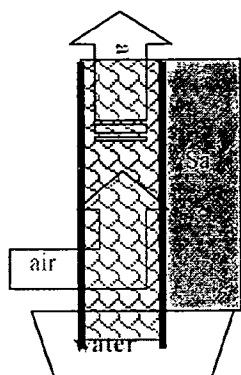
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- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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27 March 2008

(54) Title: A METHOD AND APPARATUS FOR THE THERMOGRAPHIC DETECTION OF THE THERMOHYGROMETRIC CONDITIONS OF VAST SURFACES



(57) Abstract: There is provided a method and a system for the thermographic detection of the thermohygrometric conditions of environmental parameters and vast surfaces, such as buildings, frescos and the like by means of the use of a new psychrometric detection device (IRpsicro; AnemoIR) and by concomitantly using infrared thermography.

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2007/054713

A. CLASSIFICATION OF SUBJECT MATTER
INV. G01N25/62 G01N25/66 G01P5/10

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)
G01N

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	GRINZATO E ET AL: "Infrared detection of moist areas in monumental buildings based on thermal inertia analysis" PROC SPIE INT SOC OPT ENG; PROCEEDINGS OF SPIE - THE INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING 1991 PUBL BY INT SOC FOR OPTICAL ENGINEERING, BELLINGHAM, WA, USA, vol. 1467, 1991, pages 75-82, XP002456651 paragraphs [2.0.] - [3.2.]; figure 1 ----- -/--	1-11

☒ 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
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
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- *P* document published prior to the international filing date but later than the priority date claimed

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- *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

26 October 2007

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INTERNATIONAL SEARCH REPORT

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PCT/EP2007/054713

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	GRINZATO ERMANNO ET AL: "Monitoring of the Scrovegni Chapel by IR thermography: Giotto at infrared" INFRARED PHYS TECHNOL; INFRARED PHYSICS AND TECHNOLOGY JUNE 2002, vol. 43, no. 3-5, June 2002 (2002-06), pages 165-169, XP002456652 paragraph [3.0.]; figure 7 -----	1-11
A	US 5 581 015 A (KIESOW LUTZ A [US]) 3 December 1996 (1996-12-03) abstract; figures 1,2 -----	1-11
A	GRINZATO E ET AL: "Indoor climatic conditions of ancient buildings by numerical simulation and thermographic measurements" PROC SPIE INT SOC OPT ENG; PROCEEDINGS OF SPIE - THE INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING 2000 SPIE, BELLINGHAM, WA, USA, vol. 4020, 2000, pages 314-323, XP002456653 the whole document -----	1-11
A	MARINETTI S ET AL: "Statistical analysis of IR thermographic sequences by PCA" INFRARED PHYSICS AND TECHNOLOGY, ELSEVIER SCIENCE, GB, vol. 46, no. 1-2, December 2004 (2004-12), pages 85-91, XP004617632 ISSN: 1350-4495 the whole document -----	1-11

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2007/054713

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 allsearchable 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 reportcovers 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.:

1-11

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: 1-11

Thermographic surface monitoring in combination with air
parameter measurement

2. claims: 12-15,25

Psychrometer

3. claims: 16-24

Anemometer

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2007/054713

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5581015	A	03-12-1996	NONE