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(71) Applicant (for all designated States except US): **LTU TECHNOLOGIES S.A.S.** [FR/FR]; 132 Rue de Rivoli, F-75001 Paris (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **WINTER, Alexandre** [FR/US]; 3810 Argyle Ter NW, Washington, D.c., 20011 (US). **NASTAR, Chahab** [FR/FR]; 10 Rue Joseph Bara, F-75006 Paris (FR). **GILLES, Sebastien** [FR/FR]; 20 Rue Orfila, F-75020 Paris (FR). **JAHARD, Frederic** [FR/FR]; 20 Rue du Midi, F-94300 Vincennes (FR).

(74) Agent: **KINNEY, Michael, K.**; Michaud-duffy Group Llp, 306 Industrial Park Road, Suite 206, Middletown, CT 06457 (US).

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(54) Title: METHOD FOR GENERATING A REPRESENTATION OF IMAGE CONTENT USING IMAGE SEARCH AND RETRIEVAL CRITERIA

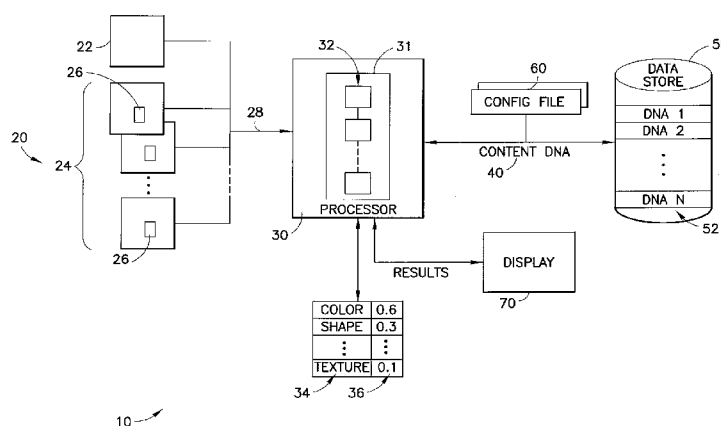


FIG. 1

(57) Abstract: A method for generating representations of visual characteristics of images is presented. The method includes receiving search criteria. The criteria include images to be searched, query images and expected result sets, and a retrieval metric. The method identifies objects within each image and selectively generates a representation of visual characteristics of each image using descriptors from an inventory of descriptors in accordance with the retrieval metric. The method compares the representations of the query image to representations of the images to be searched and determines a search result. The search result is compared to the expected result. If the results do not match, the generating, comparing and determining steps are re-executed with re-selected descriptors based on the search result and the retrieval metric. The re-execution continues in a trial-and-error approach until acceptable search results are achieved. When achieved, the method encodes the process for generating the representations.

INTERNATIONAL SEARCH REPORT

International application No

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A. CLASSIFICATION OF SUBJECT MATTER

INV. G06K9/62 G06F17/30 G06K9/46
ADD.

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)

G06K G06F

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	OGE MARQUES ET AL: "Content-Based Image and Video Retrieval, Video Content Representation, Indexing, and Retrieval, a Survey of Content-Based Image Retrieval Systems, CBVQ (Content-Based Visual Query)", 1 April 2002 (2002-04-01), CONTENT-BASED IMAGE AND VIDEO RETRIEVAL; [MULTIMEDIA SYSTEMS AND APPLICATIONS SERIES], KLUWER ACADEMIC PUBLISHERS GROUP, BOSTON, USA, PAGE(S) 15 - 117, XP002511775, ISBN: 978-1-4020-7004-4 * 3 (on page 28), 7 (starting on page 30), 3.12 and 3.15-3.16 (page 59 onwards), pages 95-96 * ----- -/-	1-16

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

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Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040,
Fax: (+31-70) 340-3016

Authorized officer

Versluis, Anton

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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.
X	HENKM BLANKEN ET AL: "Multimedia Retrieval", 1 January 2007 (2007-01-01), MULTIMEDIA RETRIEVAL, SPINGER, SPRINGER BERLIN HEIDELBERG NEW YORK, PAGE(S) COMPLETE, XP007907025, ISBN: 978-3-540-72894-8 * 3.5.2 and Contents on pages I-XVII * -----	1
X	WINTER A ET AL: "Differential feature distribution maps for image segmentation and region queries in image databases", CONTENT-BASED ACCESS OF IMAGE AND VIDEO LIBRARIES, 1999. (CBAIVL '99). PROCEEDINGS. IEEE WORKSHOP ON FORT COLLINS, CO, USA 22 JUNE 1999, LOS ALAMITOS, CA, USA, IEEE COMPUT. SOC, US, 1 January 1999 (1999-01-01), pages 13-17, XP010343828, DOI: 10.1109/IVL.1999.781116 ISBN: 978-0-7695-0034-8 * 4 and abstract * -----	1
X	JORMA LAAKSONEN ET AL: "PicSOM-Self-Organizing Image Retrieval With MPEG-7 Content Descriptors", IEEE TRANSACTIONS ON NEURAL NETWORKS, IEEE SERVICE CENTER, PISCATAWAY, NJ, US, vol. 13, no. 4, 1 July 2002 (2002-07-01), XP011077281, ISSN: 1045-9227 * II.D and III, specifically page 843, column 1, first paragraph, last sentence * -----	1
A	"QUERYING IMAGE DATABASES USING COMPUTED TEXTURE FEATURES", IBM TECHNICAL DISCLOSURE BULLETIN, INTERNATIONAL BUSINESS MACHINES CORP. (THORNWOOD), US, vol. 36, no. 6B, 1 June 1993 (1993-06-01), pages 207-208, XP000377353, ISSN: 0018-8689 -----	1