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KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,  
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NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU,  
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(54) Title: A SYSTEM AND METHOD FOR IMAGE ANALYSIS

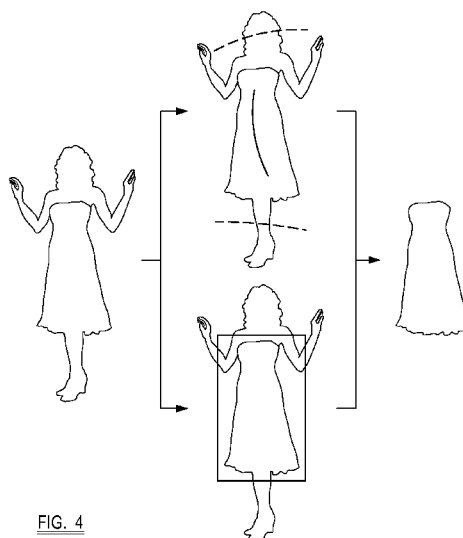


FIG. 4

(57) Abstract: A method for analysing an image to locate and isolate an object within the image, the image containing at least an object against a background, a method of searching for an image containing an object, and a method of aligning a representation of a garment contained in a first image with a representation of a person contained in a second image, particularly relating to the field of clothing and garments.



# INTERNATIONAL SEARCH REPORT

International application No PCT/GB2013/051011
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<b>A. CLASSIFICATION OF SUBJECT MATTER</b> INV. G06T7/00                      G06T11/60 ADD.				
According to International Patent Classification (IPC) or to both national classification and IPC				
<b>B. FIELDS SEARCHED</b>				
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 practicable, search terms used) EPO-Internal, INSPEC, COMPENDEX, IBM-TDB, WPI Data				
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>				
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	ARAKI N ET AL: "Follow-the-Trial-Fitter: Real-time dressing without undressing", DIGITAL INFORMATION MANAGEMENT, 2008. ICDIM 2008. THIRD INTERNATIONAL CONFERENCE ON, IEEE, PISCATAWAY, NJ, USA, 13 November 2008 (2008-11-13), pages 33-38, XP031405775, ISBN: 978-1-4244-2916-5 the whole document	1-16,20		
X	----- US 2011/096183 A1 (ROBERTSON DUNCAN PAUL [GB]) 28 April 2011 (2011-04-28) paragraph [0110] - paragraph [0164] ----- -/--	1-20		
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C.</td> <td style="width: 50%; border: none;"><input checked="" type="checkbox"/> See patent family annex.</td> </tr> </table>			<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C.	<input checked="" type="checkbox"/> See patent family annex.
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C.	<input checked="" type="checkbox"/> 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 application or patent 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) "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	Date of mailing of the international search report			
25 July 2013	16/12/2013			
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  Rockinger, Oliver			

## INTERNATIONAL SEARCH REPORT

International application No  
PCT/GB2013/051011

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>WEI ZHANG ET AL: "An intelligent fitting room using multi-camera perception", 13TH INTERNATIONAL CONFERENCE ON INTELLIGENT USER INTERFACES. IUI 2008 ASSOCIATION FOR COMPUTING MACHINERY, INC. (ACM) NEW YORK, NY, USA, 13 January 2008 (2008-01-13), - 16 January 2008 (2008-01-16), pages 60-69, XP002705985, the whole document</p> <p style="text-align: center;">-----</p>	1-20
A	<p>STEFAN HAUSWIESNER ET AL: "Image-based clothes transfer", MIXED AND AUGMENTED REALITY (ISMAR), 2011 10TH IEEE INTERNATIONAL SYMPOSIUM ON, IEEE, 26 October 2011 (2011-10-26), pages 169-172, XP032201448, DOI: 10.1109/ISMAR.2011.6092383 ISBN: 978-1-4577-2183-0 the whole document</p> <p style="text-align: center;">-----</p>	1-20
A	<p>TAKEO IGARASHI ET AL: "As-rigid-as-possible shape manipulation", ACM TRANSACTIONS ON GRAPHICS, vol. 24, no. 3, 1 July 2005 (2005-07-01), page 1134, XP055005196, ISSN: 0730-0301, DOI: 10.1145/1073204.1073323 the whole document</p> <p style="text-align: center;">-----</p>	1-20
X,P	<p>ZHOU Z ET AL: "Image-based clothes animation for virtual fitting", SIGGRAPH ASIA 2012 TECHNICAL BRIEFS, SA 2012 - SIGGRAPH ASIA 2012 TECHNICAL BRIEFS, SA 2012 2012 ASSOCIATION FOR COMPUTING MACHINERY USA, 28 November 2012 (2012-11-28), XP002705993, DOI: 10.1145/2407746.2407779 the whole document</p> <p style="text-align: center;">-----</p>	1

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/GB2013/051011

## 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.: 59-62  
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:  
see FURTHER INFORMATION sheet PCT/ISA/210
  
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.:  
1-20

### 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**

Continuation of Box II.2

Claims Nos.: 59-62

Instant claims 59-61 define the claimed subject-matter by a mere reference to the drawings. Thus, these claims are unclear and do not meet the requirements of Article 6 PCT. The wording of current claim 62 is completely vague and thus does not meet the requirements of Article 6 PCT.

As a consequence, these claims 59-62 have not been searched.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guidelines C-IV, 7.2), should the problems which led to the Article 17(2) declaration be overcome.

**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

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

1. claims: 1-20

method of aligning a representation of a garment  
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2. claims: 21-39

method for analysing an image to locate and isolate an  
object within the image  
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3. claims: 40-58

method of searching for an image containing an object  
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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/GB2013/051011

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2011096183 A1	28-04-2011	EP 2478695 A1	25-07-2012
		GB 2473503 A	16-03-2011
		US 2011096183 A1	28-04-2011
		US 2013308017 A1	21-11-2013
		WO 2011033258 A1	24-03-2011
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