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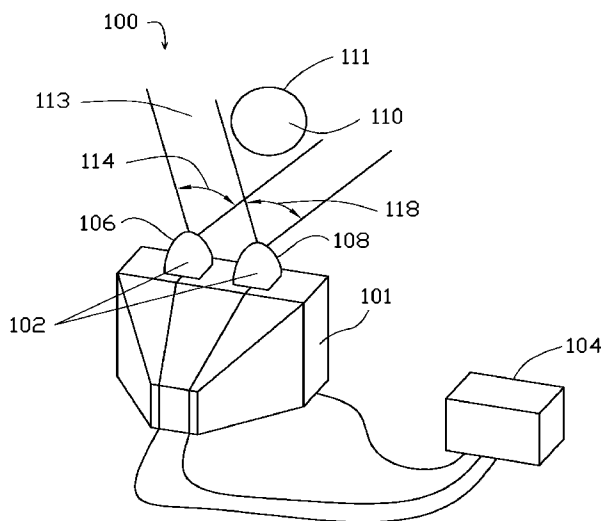
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(54) Title: COMBINED OBJECT CAPTURING SYSTEM AND DISPLAY DEVICE AND ASSOCIATED METHOD



(57) Abstract: An combined object capturing system and display device and associated method are provided for capturing and measuring an object near a display device. The object capturing system may include at least one projection device for projecting a structured light pattern onto a surface of the object, at least one detection device for capturing at least one image of the structured light pattern acting on the surface of the object, and a computing device for determining a measurement relating to the captured image. The display device may provide a position for the object to assume with respect to the object capturing system. The object capturing system may be combined with, attached to or otherwise positioned alongside the display device. The measurement may be processed constantly and may determine a level of use of the display device, a computer connected to the display device or any device connected to the display device.

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A. CLASSIFICATION OF SUBJECT MATTER**G06T 17/00(2006.01)i, G06T 15/00(2006.01)n**

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)

IPC: 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)

eKIPASS (KIPO internal) & keywords: 3D shape, stereo vision, structured light pattern, image capture, display

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 6341016 B1 (MICHAEL MALIONE) 22 January 2002 See abstract; column 2, line 38 - column 3, line 9; column 4, line 66 - column 6, line 16; claims 1-9.	1,11 2-10,12-20
X A	US 2004-0105580 A1 (GREGORY D. HAGER and ELIOT LEONARD WEGBREIT) 03 June 2004 See abstract; paragraphs [0022] - [0037].	1,11 2-10,12-20
A	US 6252623 B1 (LU TAIWEI and ZHANG JIANZHONG) 26 June 2001 See abstract; column 4, line 62 - column 7, line 9.	1-20
A	US 6493095 B1 (LI SONG et al.) 10 December 2002 See abstract; column 5, line 18 - column 7, line 11.	1-20

 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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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6341016 B1	22.01.2002	None	
US 2004-0105580 A1	03.06.2004	US 7103212 B2	05.09.2006
US 6252623 B1	26.06.2001	TW 385360 B	21.03.2000
US 6493095 B1	10.12.2002	CA 2267519 A1 CA 2305057 A1	13.10.2000 13.10.2000