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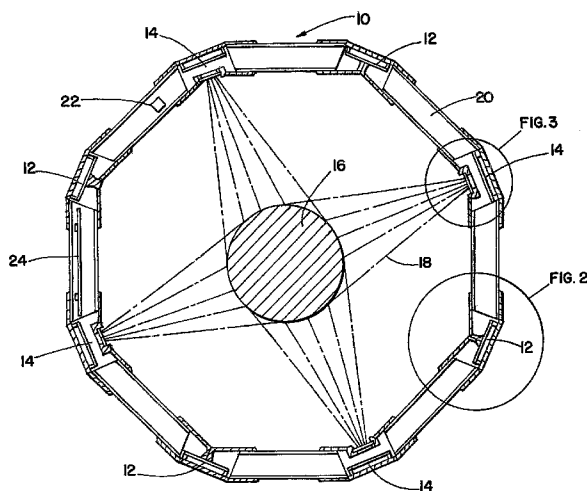
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**Declaration under Rule 4.17:**

— as to the identity of the inventor (Rule 4.17(i)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV,

[Continued on next page]

(54) Title: APPARATUS FOR DETERMINING THE THREE DIMENSIONAL SHAPE OF AN OBJECT



(57) Abstract: It comprises a ring structure (20) having a plurality of cameras (12) and projectors (14). The ring structure (20) is placed around an object 16 to be sensed or measured. Light planes (18) from the projectors (14) are aimed at the object (16) and the cameras (12) are actuated to gather and store digital images of the object (16) having the light planes projected thereon. Since the cameras (12) are taking images from several angles around the object (16) data is collected from practically all directions around the object. The data collected by the cameras (12) may be stored in a database associated with the ring structure itself or connected to the ring structure. A personal computer (PC) (30) may be electronically connected (22) to the ring structure (20) to analyze the data and display (40) a 3D image of the object. The object may be practically any object able to be placed inside the dimensions of the ring.

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 USPC: 700/118;382/154;600/587  
 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)  
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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)


**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,477,459 A (CLEGG et al.) 19 December 1995 (19.12.1995), Whole Document.	1-20
A	2004/0032649 A1 (KONDO et al.) 19 February 2004 (19.02.2004), Whole Document.	1-20

Further documents are listed in the continuation of Box C.       See patent family annex.

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

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