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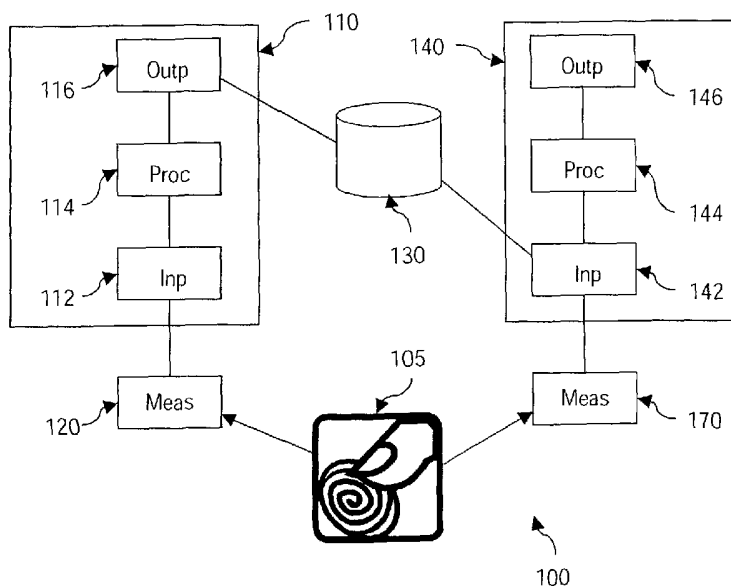
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[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR AUTHENTICATION OF A PHYSICAL OBJECT



(57) Abstract: A system for authenticating a physical object includes an enrolment device, an authentication device, and a storage for storing authentication data. The enrolment device includes an input for receiving a property set Y of the object measured using a measurement procedure. A processor is used for creating a property set I from the measured property set Y that meet a predetermined robustness criterion. It then creating a property set A from the property set I that includes less information on the actual properties than property set Y, and finally generates a control value Vin dependence on properties of the property set A. An output is used for supplying the control value to the storage as part of the authentication data. The enrolment device operates in an analogous way.

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**Declaration under Rule 4.17:**

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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 practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 291 560 A (DAUGMAN JOHN G) 1 March 1994 (1994-03-01) figure 1 column 4, line 53 - line 68	1-18
A	US 2002/029341 A1 (FRYKHOLM NIKAS ET AL) 7 March 2002 (2002-03-07) abstract	1-18
A	WO 98/12670 A (BORZA STEPHEN J ; FREEDMAN GORDON (CA); DEW ENGINEERING AND DEV LIMITE) 26 March 1998 (1998-03-26) figure 8	1-18
A	MENEZES, VANSTONE, OORSCHOT: "Handbook of Applied Cryptography" 1997, CRC PRESS LLC , USA , XP002298499 page 387 - page 390	1-18

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Information on patent family members

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