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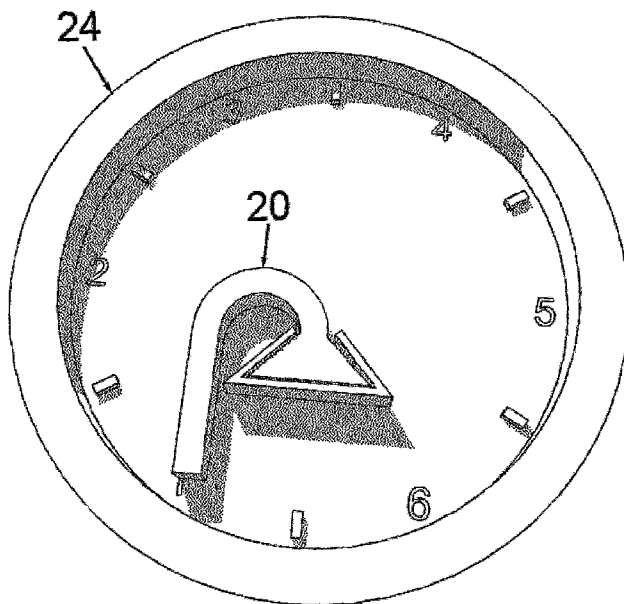
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[Continued on next page]

(54) Title: ENVIRONMENTAL CONDITION CUMULATIVE TRACKING INTEGRATION SENSOR USING SHAPE MEMORY POLYMER



(57) Abstract: The present invention utilizes the unique shape recovery properties of shape memory materials, especially shape memory polymers, to provide an inexpensive and easily identified method of determining when a product has been exposed to environmental conditions that would make it likely that the product has expired or is unfit for use. By allowing the shape memory material to alter its shape from a deformed shape to a memory shape in response to exposure to environmental conditions while attached to a visual indication device a viewer can easily determine if a product has expired.

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USPC - 116/216

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**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

MicroPatent

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ----	US 6,848,390 B2 (AKERS et al) 01 February 2005 (01.02.2005) entire document	1-6, 11-12 -----
Y		7-10, 13-24
Y	US 5,910,357 A (HACHISUKA et al) 08 June 1999 (08.06.1999) entire document	7-10, 13-24
Y	US 2004/0210027 A1 (HAYASHI et al) 21 October 2004 (21.10.2004) entire document	7-10, 19-22

Further documents are listed in the continuation of Box C.

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