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(54) Title: AUTHENTICITY INDICATOR

(57) Abstract: A rapidly reversing authenticity indicator for substrates such as secure documents, tags and labels is described. The authenticity indicator comprises a substrate having provided thereon a coating of a colorless chromogenic material, a binder material and optional pigment. An applicator is provided containing a developer material solution for the colorless chromogen. In one embodiment, the developer material solution is preferably an organic acid of five carbons or less and is selected to have a molecular weight of 102 or less, a pH of less than 5, and preferably positive vapor pressure. The coated substrate when contacted with the developer material in the applicator develops an intense color that persists momentarily rapidly reverting to substantially a colorless or pale form to provide a visual indication of authenticity without permanent discoloration of the substrate or inadvertent coloration or undue false positives.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US05/08797

A. CLASSIFICATION OF SUBJECT MATTER
IPC: **B41M 5/30**(2006.01)

USPC: 503/216
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)
U.S. : Please See Continuation Sheet

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 --- Y	US 5,139,572 A (KAWASHIMA) 18 August 1992 (18.08.1992), see entire document.	1-6, 8, 10, 12, 13, 15, 16, 19, 21, 22 --- 7, 9, 14, 17, 20, 23
Y	US 4,680,598A (OBITSU et al.) 14 July 1987 (14.07.1987), see entire document.	7, 9, 14, 17, 20, 23
Y	US 4,687,862 A (OBITSU et al.) 18 August 1982 (18.08.1982), see entire document.	7, 9, 14, 17, 20, 23

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

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Continuation of B. FIELDS SEARCHED Item 1:
503/216; 283/1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17; 500/200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 122, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226