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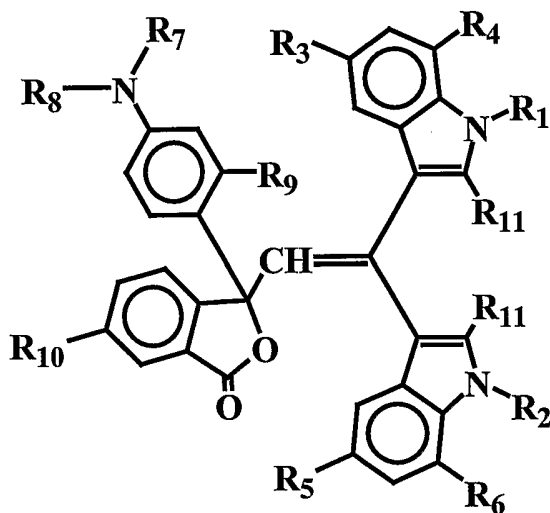
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(54) Title: LINERLESS LABELS



(I)

(57) Abstract: A linerless label system comprising pressure adhesive coating, release coating and thermal imaging coating is described. The thermal imaging coating contains as one of its components the compounds of the formula (I), wherein R<sub>1</sub> and R<sub>2</sub> are selected from methyl, ethyl, aryl, aryl substituted with methyl, ethyl, methoxy, ethoxy or halogen, benzyl or benzyl with phenyl substituted with methyl, ethyl, methoxy, ethoxy or halogen, R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub> and R<sub>6</sub> are selected from hydrogen, halogen, methyl, ethyl, methoxy, ethoxy, phenyl, R<sub>7</sub> and R<sub>8</sub> are each independently selected from methyl or ethyl, R<sub>9</sub> is selected from hydrogen, methoxy or ethoxy, R<sub>10</sub> is selected from hydrogen, dimethylamino or diethylamino, R<sub>11</sub> is methyl. The imaged linerless label according to the invention has been a bar reflectance of less than 20 at

670 nanometers, a print control contrast signal of at least 80 and a BNL background of at least 75%.

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**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US04/15722

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC(8) : B32B 3/04, 7/12, 9/00, 33/00; B41M 5/136, 5/155, 5/323, 5/333, 5/337; C07D 207/40  
 US CL : 428/40.1, 40.2, 41.6, 42.1, 121, 124, 352, 354, 906, 913; 283/81; 503/204, 206, 226  
 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. : 428/40.1, 40.2, 41.6, 42.1, 121, 124, 352, 354, 906, 913; 283/81; 503/204, 206, 226

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
 NONE

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

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,383,631 A (MEHTA) 07, May 2002, See abstract and col. 3, lines 3-5.	1-18
A	US 5,218,127 A (MATHIAPARANAM) 08 June 1993, See abstract.	1-18

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	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"O" document referring to an oral disclosure, use, exhibition or other means		
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**INTERNATIONAL SEARCH REPORT**

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PCT/US04/15722

Continuation of B. FIELDS SEARCHED Item 3:

WEST

Search Terms: label, linerless, adhesive, chromogen, phthalide, thermal, recording, contrast signal, bar reflectance, color, dye former, precursor, nm, indolyethylene phthalide