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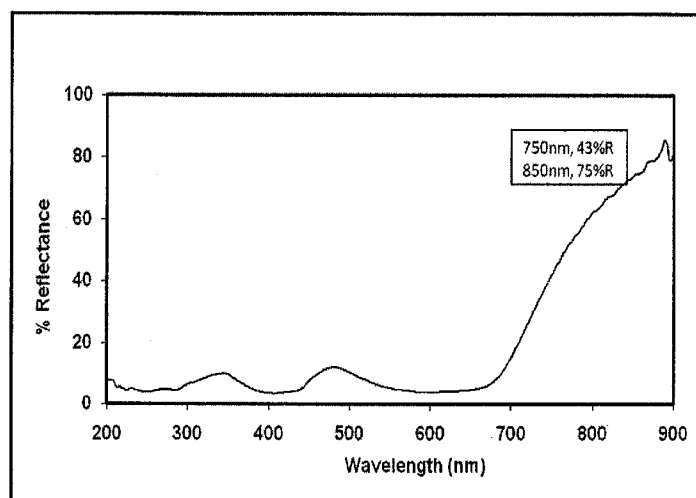
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(54) Title: ENVIRONMENTALLY-FRIENDLY NEAR INFRARED REFLECTING HYBRID PIGMENTS

FIG. 1



(57) Abstract: A hybrid pigment composition is provided including a pigment or a dye and a fibrous clay. The pigment composition has higher reflectance in a near infrared region than a visible light region of the electromagnetic spectrum. The fibrous clay can be selected from palygorskite, sepiolite, and mixtures thereof. The hybrid pigment composition is tunable to provide high reflectance at a desired wavelength in the near infrared region.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 09/36684

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - C09B 7/00 (2009.01)

USPC - 106/401, 487

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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USPC- 106/401, 487; 534/15, 457

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

USPC- 106/401, 487; 534/15, 457

IPC(8) - C09B 7/00 (2009.01)(text delimited)

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

Google, Google Patent, PubWEST

Pigment, dye, clay, palygorskite, sepiolite, coat, paint, roofing, polymer, metamer, clothing, textiles, motor vehicle, military

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2005/0007680 A1 (Naganuma et al.), 13 January 2005 (13.01.2005). Para [0043], [0044]	1-17
Y	US 2005/0207002 A1 (Liu et al.), 22 September 2005 (22.09.2005). Para [0014], [0060]	1-19
Y	US 4,842,903 A (Hayner), 27 June 1989 (27.06.1989). Cols 1, 5, claim 17, abstract	5 and 13-19
Y	US 2007/0012349 A1 (Galidiana et al.), 18 January 2007 (18.01.2007). Para [0162], [0163], [0254], [0388]	10
Y	US 2008/0031508 A1 (Baloukas et al.), 07 February, 2008 (07.02.2008). Para [0003], [0004], [0040], abstract	9-11

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