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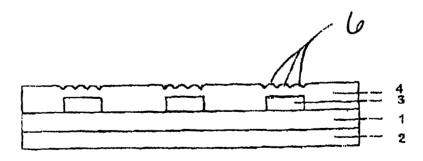
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(54) Title: PRINTING METHOD FOR MAKING A LENTICULAR LENS MATERIAL



(57) Abstract: The invention generally provides a method for making a lenticular lens material using energy-curable inks and energy-curable coatings, for example, UV-curable inks and coatings, having differential surface tensions or different surface energies. The steps of the method include: (a) providing a transparent substrate sheet having a front and a back; (b) printing an array of substantially parallel lines in at least one energy-curable ink on the front of the sheet; (c) applying at least one energy-curable coating over the array printed in energy-curable ink, the ink and coating being chosen so that sufficient repulsion is created on contact between the ink and the coating to form an aligned series of contiguous beads of coating material before curing takes over to ensure the formation of a lenticular lens structure over the image printed in energy-curable ink; and (d) curing to produce a stable lenticular lens structure.



International application No. INTERNATIONAL SEARCH REPORT PCT/US06/22536 CLASSIFICATION OF SUBJECT MATTER IPC: G02B 27/10(2006.01);B29D 11/00(2006.01) USPC: 359/619;264/1.32 According to International Patent Classification (IPC) or to both national classification and IPC FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S.: 359/619; 264/1.32, 1.36, 1.38, 1.7, 132; 430/321 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. A, P US 6,964,806 A (TAZAKI) 15 November 2005 (15.11.05) Α US 6,000,332 A (HRUBY et al) 14 December 1999 (14.12.99) Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents: later document published after the international filing date or priority date and not in conflict with the application but cited to understand the "A" document defining the general state of the art which is not considered to be of principle or theory underlying the invention particular relevance "X" document of particular relevance; the claimed invention cannot be "E" earlier application or patent published on or after the international filing date considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as "Y" document of particular relevance; the claimed invention cannot be specified) considered to involve an inventive step when the document is combined with one or more other such documents, such combination being "O" document referring to an oral disclosure, use, exhibition or other means obvious to a person skilled in the art document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed Date of the actual completion of the international search Date of mailing of the international search report 05 October 2007 (05.10.2007) Authorized officer Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US

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