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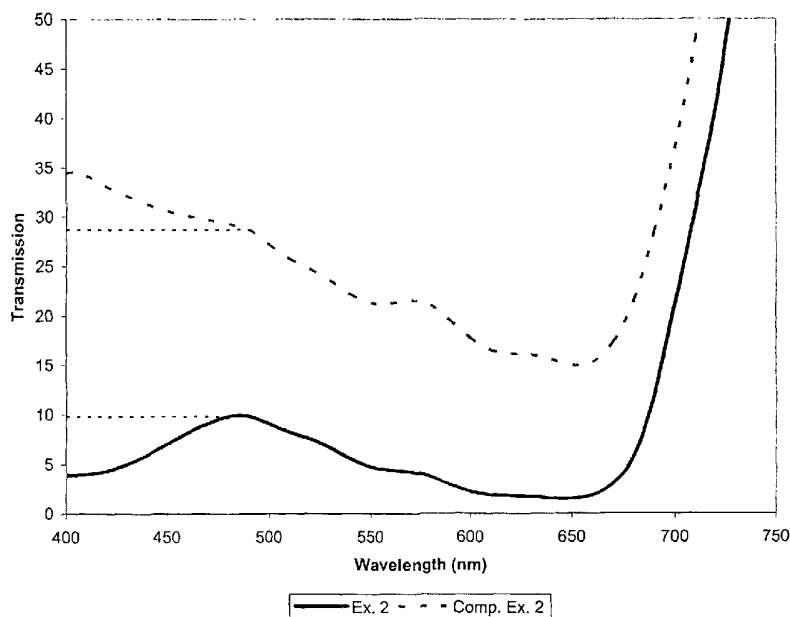
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(54) Title: LIGHT POLARIZING FILM WITH MELANIN



(57) Abstract: A dichroic dye can be blended with a non-dichroic dye (melanin and melanin derivatives) and still maintain a commercially acceptable level of polarizing efficiency. Efficient polarizers exhibit polarizing efficiencies of greater or equal to 95 % and the best are even greater than or equal to 98 %. Since melanin has unique features with respect to absorption of wavelengths of light, melanin is very useful to have in combination with a polarizer that takes advantage of this absorption. The blending can be done by a mixture (preferably an aqueous mixture) of melanin and a dichroic dye in a ratio sufficient to achieve the desired color and polarizing effect.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/23853

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G02B5/30 G02C7/12

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)

IPC 7 G02B G02C

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 practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 859 039 A (OKUMURA TAKUZO ET AL) 22 August 1989 (1989-08-22) cited in the application column 5, line 1 - line 16; claim 1; figures 1,2	1-21
A	US 6 102 539 A (TUCKER JOHN F) 15 August 2000 (2000-08-15) abstract column 6, line 2 - column 7, line 4; figure	1-21
A	US 5 036 115 A (GALLAS JAMES M) 30 July 1991 (1991-07-30) cited in the application column 5, line 1 - line 16; claim 1; figures 1,2	1-21
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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INTERNATIONAL SEARCH REPORT

International Application No

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 187 207 A (GALLAS JAMES M) 16 February 1993 (1993-02-16) claims 1,2; figure 1; example 1 -----	1-21

INTERNATIONAL SEARCH REPORT

Information on patent family members

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