

Title (en)
PHOTOCHROMIC POLYMER MEMBRANE.

Title (de)
PHOTOCHROME POLYMERMEMBRAN.

Title (fr)
MEMBRANE POLYMERES PHOTOCHROMIQUE.

Publication
EP 0527847 A4 19921229 (EN)

Application
EP 91909034 A 19910417

Priority
US 51014690 A 19900417

Abstract (en)
[origin: WO9116644A1] A photochromic material adapted for coating light transmissive materials. The photochromic material contains photosensitive silver halide crystals having dimensions in the range of approximately 50 Angstroms to 800 Angstroms. The silver halide crystals are surface doped with copper ions and another sensitizer selected from mild reducing agents, thioethers, or sulfur-bearing ions and are treated with an agent to accelerate the forward reaction and control the reverse reaction. The accelerants are ions selected from the group consisting of cobalt, chromium, manganese, magnesium, and rare earth metals such as cerium, samarium and europium. The agent for controlling the reverse reaction is one that confers electrical conductivity on the material and while to this end glycerol containing a high concentration of metal ions, methane sulfonic acid and benzyltrimethyl ammonium chloride are useful, the preferred agent is phosphoric acid. The crystals are dispersed in one or more protective polymers that do not irreversibly bind halogen.

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CPC (source: EP)
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Citation (search report)
• [X] WO 8912839 A1 19891228 - WASSERMAN NELSON [US]
• [AP] EP 0421027 A1 19910410 - SEIKISUI CHEMICAL CO LTD [JP]
• [A] PATENT ABSTRACTS OF JAPAN vol. 9, no. 170 (P-373)(1893) 16 July 1985 & JP-A-60 046 529 (WATARU KURODA) 13 March 1985
• See references of WO 9116644A1

Designated contracting state (EPC)
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