

Title (en)
METHODS FOR MAKING AN ARTICLE COATED WITH A PHOTOCHROMIC FILM AND USE THEREOF IN OPHTHALMOLOGICAL OPTICS

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES ARTIKELS MIT FOTOCHROMHALTIGER FOLIENBESCHICHTUNG UND DESSEN VERWENDUNG IN DER AUGENOPTIK

Title (fr)
PROCEDES DE FABRICATION D'UN ARTICLE REVETU D'UN FILM PHOTOCHROME ET LEUR APPLICATION EN OPTIQUE OPHTALMIQUE

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Application
EP 07731546 A 20070131

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Abstract (en)
[origin: WO2007088312A1] The invention concerns a method for making at least one substrate coated with a mesoporous photochromic film, including: a) preparing a sol precursor of a mesoporous film comprising an inorganic precursor agent, at least one organic solvent, water, at least a pore-forming agent and a hydrophobic precursor bearing at least one hydrophobic group; b) depositing a film of the sol precursor onto a main surface of a substrate; c) eliminating the pore-forming agent from the film resulting from the previous step at a temperature = 150°C ; d) impregnating the mesoporous film resulting from step c) with a solution comprising at least one photochromic agent. According to one embodiment, the photochromic agent is introduced directly into the precursor sol. According to one embodiment, the precursor sol does not comprise any hydrophobic precursor agent but the photochromic film is made hydrophobic by a treatment subsequent to its preparation.

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Citation (search report)
See references of WO 2007088312A1

Citation (examination)
BAE J Y ET AL: "Photochromism in spiropyran impregnated fluorinated mesoporous organosilicate films", JOURNAL OF MATERIALS RESEARCH AUGUST 2004 MATERIALS RESEARCH SOCIETY US, vol. 19, no. 8, August 2004 (2004-08-01), pages 2503 - 2509

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