

Title (en)  
METHOD OF MAKING A POLARIZING GLASS

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON POLARISIERENDEM GLAS

Title (fr)  
PROCEDE DE FABRICATION DE VERRE POLARISANT

Publication  
**EP 0931029 A4 20000510 (EN)**

Application  
**EP 97941471 A 19970908**

Priority  
• US 9715895 W 19970908  
• US 2725696 P 19960930

Abstract (en)  
[origin: WO9814409A1] A method of producing a polarizing glass article that exhibits a broad band of high contrast polarizing properties in the infrared region of the radiation spectrum, that is phase-separated or exhibits photochromic properties based on silver, copper, or copper-cadmium halide crystals or a combination thereof precipitated in the glass and having a size in the range of 200-5000 Angströms, and that has a surface layer containing elongated silver, copper, or copper cadmium metal particles, or a mixture of same, the method comprising the step of thermally forming and precipitating large halide crystals by subjecting the glass article to a time-temperature cycle in which the temperature is at least 75 DEG C above the glass softening point. The figure is a graphical representation of stress levels in psi versus center wavelengths (CWLs) in nm, where center wavelength is defined as the center of a given range of polarizing capability. Specifically, the stress levels required to achieve a given center wavelength is compared for two heat treatment cycles. The upper line (A) represents data for the standard heat treatment of polarizing glasses; 710 DEG C for 4 hours. Line (B) represents data for the new high temperature heat treatment of 750 DEG C for 8 hours.

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Citation (search report)  
• [XY] EP 0719742 A1 19960703 - HOYA CORP [JP]  
• [XY] EP 0719741 A1 19960703 - HOYA CORP [JP]  
• [XY] US 5430573 A 19950704 - ARAUJO ROGER J [US], et al  
• [DY] US 4908054 A 19900313 - JONES KELLY E [US], et al  
• See references of WO 9814409A1

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