

Title (en)

MULTIPLE GLAZING WITH VARIABLE DIFFUSION BY LIQUID CRYSTALS AND METHOD OF MANUFACTURE THEREOF

Title (de)

MEHRFACHVERGLASUNG MIT VARIABLER DIFFUSION DURCH FLÜSSIGKRISTALLE UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

VITRAGE MULTIPLE A DIFFUSION VARIABLE PAR CRISTAUX LIQUIDES, SON PROCEDE DE FABRICATION

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Application

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Priority

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Abstract (en)

[origin: WO2013098527A1] The present invention provides multiple glazing with variable diffusion by liquid crystals (100), having first and second sheets of flat float glass (1, 2) held on the edge of their internal faces (11, 21) by a seal (7), in particular made of a given seal material, in particular substantially organic, first and second electrodes (3, 4), a layer (5) of liquid crystals of average thickness E between 5 and 15 µm including 5 µm and excluding 15 µm and incorporating spacers (6). The thickness of each of the first and second glass sheets is less than or equal to 6.5 mm and each of the coated internal faces of the first and second electrodes has a dioptric defect rating, expressed in millidiopters, of less than or equal to (I) where the thickness E of liquid crystals is in µm. The invention also relates to a method of manufacturing such glazing.

IPC 8 full level

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Citation (search report)

See references of WO 2013098527A1

Citation (examination)

- WO 9830653 A1 19980716 - RAYCHEM CORP [US]
- DE 102006054011 A1 20080521 - SCHOTT AG [DE]
- EP 1927640 A1 20080604 - SONY DEUTSCHLAND GMBH [DE]
- ANONYMOUS: "Pilkington Architectural Product Guide 2008", PILKINGTON, 31 December 2008 (2008-12-31), pages 58PP, XP055172200, Retrieved from the Internet <URL:http://assetmanager-ws.pilkington.com/fileserver.aspx?cmd=get_file&file_id=1968&digest=TSp5dCCF6fdT5Q4G7EzqnA==&ct=pdf&file_name=Final PDF.pdf> [retrieved on 20150226]

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