

Title (en)

PARTITIONED WAVE-GUIDE SOUND INSULATION GLAZING

Title (de)

ISOLIERGLAS MIT GESCHOTTETEM AKUSTISCHEM WELLENLEITER

Title (fr)

VITRAGE ISOLANT ACOUSTIQUE A GUIDE D'ONDE CLOISONNE

Publication

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Application

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Abstract (en)

[origin: US6668974B1] The invention relates to an acoustic insulating glazing unit. This glazing unit comprises two glass sheets (12, 14) joined together around their periphery by means of an assembly (16) forming a seal (163) and an insert frame (161) which defines, with the two glass sheets, a flat cavity filled with a gas, and a waveguide fastened between the glass sheets, internal to the insert frame. The waveguide consists of at least one straight tubular section (20, 22, 24, 26) placed on the periphery of the gas-filled cavity along one side of the glazing unit, this section being provided with a transverse partition (28) which closes the latter in its length direction, the said partition being placed at a length position along the section which depends on the acoustic mode of the cavity that it is desired to disorganize, this partition defining, on either side of it, two chambers (30, 31) which communicate with the cavity through the ends of the sections.

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