

Title (en)
SOUND-INSULATING GLAZING WITH THERMOVISCOUS LOSSES

Title (de)
SCHALLISOLIERENDE VERGLASUNG MIT THERMOVISKOSEN VERLUSTEN

Title (fr)
VITRAGE ISOLANT ACOUSTIQUE A EFFET DE PERTES THERMO-VISQUEUSES

Publication
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Application
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Abstract (en)
[origin: WO2004007886A1] The invention relates to sound-insulating glazing comprising at least two sheets of substrate (2, 3) which are assembled at the periphery thereof using a device (4) forming a sealed joint and a spacer frame which, together with the two sheets of substrate (2, 3), forms a flat gas-filled cavity (5). The invention is characterised in that at least one micro-cavity (5a, 5b) is formed on at least one part of the edge of the aforementioned gas-filled cavity (5), thereby forming an area of thermoviscous losses from the cavity (5) along at least one of the inner walls of the two sheets of substrate (2, 3) defining said cavity (5). The dimensions of the micro-cavity (5a, 5b) are selected so as to encourage the propagation of part of the acoustic waves from the cavity (5) towards the micro-cavity, thus producing thermoviscous losses and reducing the acoustic energy of said cavity. In addition, means (6e) are provided in order to contain the acoustic waves leaving said micro-cavity (5a, 5b).

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