

Title (en)
Insulating glazing unit

Title (de)
Isolierverglasungseinheit

Title (fr)
Unité de vitrage isolant

Publication
EP 0613990 B2 19991215 (EN)

Application
EP 94104145 A 19910829

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• EP 91114587 A 19910829
• US 68695691 A 19910418
• US 57869690 A 19900904
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Abstract (en)
[origin: EP0613990A1] An insulating unit (150) has a pair of glass sheets (12,14) about an edge assembly (152) to provide a compartment (18) between the sheets. The edge assembly has a U-shaped spacer (158) made of metal, metal coated plastic, gas and moisture impervious polymer, or gas and moisture impervious film coated polymer. The outer legs (156) of the spacer (158) and the glass (12,14) provide a long diffusion path to limit the diffusion of argon gas out of the compartment (18). The edge assembly (152) has materials selected and sized to provide edge assembly having an RES-value of at least 75. A spacer (158) for use in insulating units includes a plastic core having a gas impervious film e.g. a metal film or a halogenated polymer film. Also taught herein are techniques for making the unit (150) and spacer (158). The unit (150) has a long diffusion path to increase the time period in which insulating glass e.g. Argon gas may be retained in the compartment (18). The increased RES-value provides a unit (150) that has a low thermal conducting edge (152). In this manner heat loss through the marginal edge (152) of the unit (150) is reduced. <IMAGE>

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IPC 8 full level
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Citation (opposition)
Opponent :
GB 2202261 A 19880921 - HOME INSULATION LIMITED

Cited by
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EP 0475213 A1 19920318; EP 0475213 B1 19950125; AT E117762 T1 19950215; AT E143092 T1 19961015; CA 2049703 A1 19920305; CA 2049703 C 19950117; CA 2125504 A1 19920305; CA 2125504 C 19961210; CA 2125505 A1 19920305; CA 2125505 C 19970422; DE 69106985 D1 19950309; DE 69106985 T2 19950803; DE 69122273 D1 19961024; DE 69122273 T2 19970410; DE 69122273 T3 20010329; DK 0475213 T3 19950710; DK 0613990 T3 19970310; DK 0613990 T4 20000417; EP 0613990 A1 19940907; EP 0613990 B1 19960918; EP 0613990 B2 19991215; JP 2817902 B2 19981030; JP H04250285 A 19920907; KR 100205524 B1 19990701; KR 920006605 A 19920427; NO 300932 B1 19970818; NO 913315 D0 19910823; NO 913315 L 19920305

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