

Title (en)

LOW DIELECTRIC GLASS COMPOSITION, FIBERS, AND ARTICLE

Title (de)

NIEDRIGDIELEKTRISCHE GLASZUSAMMENSETZUNG, FASERN UND ARTIKEL

Title (fr)

COMPOSITION DE VERRE À FAIBLE CONSTANCE DIÉLECTRIQUE, FIBRES ET ARTICLE

Publication

EP 4085033 A4 20240501 (EN)

Application

EP 20909139 A 20201229

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- US 202016792658 A 20200217
- US 2020067269 W 20201229

Abstract (en)

[origin: WO2021138295A1] Glass compositions and glass fibers having low dielectric constants and low dissipation factors that may be suitable for use in electronic applications and articles are disclosed. The glass fibers and compositions of the present invention may include between 48.0 to 57.0 weight percent SiO₂; between 15.0 and 26.0 weight percent B₂O₃; between 12.0 and 18.0 weight percent Al₂O₃; between greater than 3.0 and 8.0 weight percent P₂O₅; between greater than 0.25 and 7.00 weight percent CaO; 5.0 or less weight percent MgO; and 6.0 or less weight percent TiO₂. Further, the glass composition has a glass viscosity of 1000 poise at a temperature greater than 1350 degrees Celsius and a liquidus temperature greater than 1100 degrees Celsius.

IPC 8 full level

C03C 3/087 (2006.01); **C03C 3/091** (2006.01); **C03C 3/097** (2006.01); **C03C 13/00** (2006.01)

CPC (source: EP KR)

C03C 3/097 (2013.01 - EP KR); **C03C 13/00** (2013.01 - EP KR)

Citation (search report)

- [I] CN 101269915 A 20080924 - UNIV JINAN [CN]
- [A] CN 101448753 A 20090603 - NIPPON ELECTRIC GLASS CO [JP]
- [A] WO 2018125736 A1 20180705 - AGY HOLDING CORP [US]
- See also references of WO 2021138295A1

Designated contracting state (EPC)

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