Title (en)

FLAT GLASS PANE

Title (de)

FLACHGLASSCHEIBE

Title (fr)

PLAQUE DE VERRE PLAT

Publication

EP 4208422 A1 20230712 (DE)

Application

EP 21770234 A 20210902

Priority

- LU 102045 A 20200903
- EP 2021074284 W 20210902

Abstract (en)

[origin: WO2022049205A1] The invention relates to a flat glass pane made of a base material, which is an alkali-containing silicate glass. The flat glass pane is characterized in that at least one surface layer is enriched with potassium and is depleted of sodium and/or lithium while an inner layer, in particular an inner layer directly adjoining the surface layer, is not enriched with potassium and is not depleted of sodium and/or lithium; and the flat glass pane has a compressive stress up to a compressive stress depth and a tensile stress starting from the compressive stress depth, wherein the tensile stress increases as the depth increases up to a tensile stress maximum arranged in the inner layer, and/or the curve of the tensile stress does not have a linear section depending on the depth, and/or the curve of the tensile stress does not have a section in which the tensile stress is constant depending on the depth.

IPC 8 full level

C03C 21/00 (2006.01); **C03B 27/012** (2006.01); **C03B 27/016** (2006.01)

CPC (source: EP KR US)

C03B 27/04 (2013.01 - US); **C03B 27/0404** (2013.01 - KR); **C03C 3/083** (2013.01 - KR US); **C03C 3/091** (2013.01 - US); **C03C 21/00** (2013.01 - EP KR); **C03C 21/002** (2013.01 - US); C03B 27/04 (2013.01 - EP)

Citation (search report)

See references of WO 2022049205A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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