

Title (en)

PANE HAVING A SOL-GEL COATING WITH NANO INCLUSIONS

Title (de)

SCHEIBE MIT EINER SOL-GEL-BESCHICHTUNG MIT NANO-EINLAGERUNGEN

Title (fr)

VITRE AYANT UN REVÊTEMENT SOL-GEL CONTENANT DES NANO-INCLUSIONS

Publication

EP 4363386 A1 20240508 (DE)

Application

EP 22728418 A 20220509

Priority

- EP 21182237 A 20210629
- EP 2022062429 W 20220509

Abstract (en)

[origin: WO2023274610A1] The invention relates to a coated pane comprising: - a transparent substrate (1); - a sol-gel coating (2) on a surface of the substrate (1), said sol-gel coating (2) containing a sol-gel matrix (3) which is based on metal oxide or semimetal oxide and is provided with nano inclusions (4), the nano inclusions (4) comprising a core (4a) and a shell (4b) around the core (4b), the shell (4b) being produced by means of atomic layer deposition (ALD).

IPC 8 full level

C03C 17/00 (2006.01); **C03C 17/02** (2006.01)

CPC (source: EP KR)

C03C 17/002 (2013.01 - EP KR); **C03C 17/007** (2013.01 - EP KR); **C03C 17/02** (2013.01 - EP KR); **C03C 2217/213** (2013.01 - EP); **C03C 2217/452** (2013.01 - EP); **C03C 2217/465** (2013.01 - EP); **C03C 2217/477** (2013.01 - EP); **C03C 2217/478** (2013.01 - EP); **C03C 2217/73** (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2023274610 A1 20230105; CN 115812068 A 20230317; EP 4363386 A1 20240508; KR 20240025002 A 20240226

DOCDB simple family (application)

EP 2022062429 W 20220509; CN 202280002272 A 20220509; EP 22728418 A 20220509; KR 20247002824 A 20220509