

Title (en)

MATERIAL COMPRISING A STACK WITH A THIN ZINC-BASED OXIDE DIELECTRIC SUBLAYER AND METHOD FOR DEPOSITING SAID MATERIAL

Title (de)

MATERIAL MIT EINEM STAPEL MIT EINER DÜNNEN DIELEKTRISCHEN SCHICHT AUS ZINKBASIERTEM OXID UND VERFAHREN ZUR ABSCHIEDUNG DIESER MATERIALS

Title (fr)

MATERIAU COMPORTANT UN EMPILEMENT A SOUS-COUCHE DIELECTRIQUE FINE D'OXIDE A BASE DE ZINC ET PROCEDE DE DEPOT DE CE MATERIAU

Publication

**EP 4172124 A1 20230503 (FR)**

Application

**EP 21740594 A 20210616**

Priority

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Abstract (en)

[origin: WO2021260297A1] The invention relates to a material comprising a substrate (30) coated on one face (29) with a stack of thin layers (14) comprising at least one metal functional layer (140) and comprising: - an underlayer of zinc-based oxide, ZnO (129), between 0.3 and 5.0 nm thick; - a dielectric underlayer of titanium-based oxide, TiOx (127), which is located under and in contact with said underlayer of zinc-based oxide, ZnO (129), with a thickness of between 5.0 and 50.0 nm; - a capping layer of titanium-based oxide, TiOx (150), between 0.3 and 5.0 nm thick; - an overlayer of zinc-based oxide, ZnO (161), between 2.0 and 10.0 nm thick; and - a dielectric overlayer (165).

IPC 8 full level

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