

Title (en)

MATERIAL COMPRISING A STACK OF THIN LAYERS FOR THERMAL INSULATION AND AESTHETIC PROPERTIES

Title (de)

MATERIAL MIT EINEM STAPEL AUS DÜNNSCHICHTEN ZUR WÄRMEDÄMMUNG UND ÄSTHETISCHEN EIGENSCHAFTEN

Title (fr)

MATÉRIAU COMPRENANT UN EMPILEMENT DE COUCHES MINCES POUR DES PROPRIÉTÉS D'ISOLATION THERMIQUE ET ESTHÉTIQUES

Publication

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Application

**EP 21897343 A 20211125**

Priority

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Abstract (en)

[origin: WO2022113107A1] A material comprising a transparent substrate deposited with a stack of thin layers on at least one of its surface for thermal insulation and aesthetic properties is disclosed. The stack of thin layers successively comprises, starting from the substrate not more than two metallic functional layers based on silver F1, F2 and three dielectric coatings M1, M2, M3 comprising at least one dielectric layer such that each of the metallic functional layer is sandwiched between two dielectric coatings. The material comprising said stack of thin layers exhibits blue color in external reflection (Rext); preferably neutral color in internal reflection (Rint) and has less than 20% reflection internally and externally. Additionally, the material has a high selectivity while retaining a light transmission in the visible spectrum as high as 70%.

IPC 8 full level

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