

Title (en)
COLORED ZIRCONIA

Title (de)
GEFÄRBTES ZIRKONIA

Title (fr)
ZIRCONE COLOREE

Publication
EP 4126792 A1 20230208 (FR)

Application
EP 21716204 A 20210402

Priority
• FR 2003343 A 20200403
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Abstract (en)
[origin: WO2021198519A1] A particulate mixture having the following chemical composition, by weight percentages on the basis of the oxides: - $ZrO_2 + HfO_2 + Y_2O_3 + CeO_2$: the remainder to 100%; - $0\% \leq Al_2O_3 \leq 1.5\%$; - oxides other than ZrO_2 , HfO_2 , Y_2O_3 , CeO_2 and Al_2O_3 , or "other oxides": between 0.5% and 12%; HfO_2 , Y_2O_3 and CeO_2 , being such that $-1.8\% \leq Y_2O_3 \leq 3\%$ and $-0.1\% \leq CeO_2 \leq 0.9\%$, the particulate mixture comprising between 0.5% and 10% of an oxide pigment, as weight percentage on the basis of the particulate mixture, wherein the content of oxides which are "other oxides" and which are not included in the oxide pigment is less than 2%, as weight percentage on the basis of the oxides, more than 95% of the weight of the oxide pigment particles consisting of a material chosen from: - oxide(s) of perovskite structure, optionally totally or partially replaced with an equivalent amount of precursor(s) of these oxides, - oxides of spinel structure, optionally totally or partially replaced with an equivalent amount of precursor(s) of these oxides, - oxides of hematite structure E_2O_3 , the element E being chosen from the group GE(1) formed by iron, chromium and mixtures of iron and chromium, - oxides of rutile structure FO_2 , the element F being chosen from the group GF(1) formed by mixtures of tin and vanadium, mixtures of titanium and chromium and niobium, mixtures of titanium and chromium and tungsten, mixtures of titanium and niobium and manganese, mixtures of tin and chromium, mixtures of chromium and titanium and antimony, mixtures of nickel and antimony and titanium, and mixtures thereof, - and mixtures thereof.

IPC 8 full level
C04B 35/486 (2006.01); **C04B 35/488** (2006.01); **G04B 37/22** (2006.01)

CPC (source: EP US)
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Citation (search report)
See references of WO 2021198519A1

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Designated extension state (EPC)
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