

Title (en)

YTTRIA-STABILIZED ZIRCONIA SLURRY AND METHODS OF APPLICATION THEREOF

Title (de)

YTTRIUMOXIDSTABILISIERTE ZIRKONOXIDAUFSCHLÄMMUNG UND VERFAHREN ZUR ANWENDUNG DAVON

Title (fr)

BOUE DE ZIRCONES STABILISÉE À L'YTTRIUM ET SES PROCÉDÉS D'APPLICATION

Publication

EP 4253599 A1 20231004 (EN)

Application

EP 22202037 A 20221017

Priority

- IN 202211018839 A 20220330
- US 202217841861 A 20220616

Abstract (en)

Coated components (285), along with methods of their formation, are provided. The coating (202) may include a component (280) having a surface (281) and a coating (202) over the surface (281) of the component (280). The coating (202) may include a first plurality of coarse micrograins (291) having an coarse median grain size of greater than 10 μm to 20 μm , a second plurality of medium micrograins (293) having a medium median grain size of 4 μm to 10 μm , a third plurality of fine micrograins (294) having a fine median grain size of 0.001 μm to less than 4 μm . Each of the coarse micrograins (291), medium micrograins (293), and fine micrograins (294) may include, independently, a yttria-stabilized zirconia (YSZ) constituent having a chemical formula of $(\text{ZrO}_{2-x}\text{Y}_2\text{O}_3)_x$ with x is from greater than 0 to less than 1.

IPC 8 full level

C23C 24/04 (2006.01); **C23C 24/08** (2006.01); **C23C 28/00** (2006.01); **C23C 28/04** (2006.01)

CPC (source: EP)

C23C 24/04 (2013.01); **C23C 24/08** (2013.01); **C23C 28/042** (2013.01); **C23C 28/048** (2013.01); **C23C 28/3455** (2013.01); **C23C 28/36** (2013.01)

Citation (applicant)

IN 202211018839 A 20220330

Citation (search report)

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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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

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