

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 $(\text{ZrO}_{2-x})_y(\text{Y}_{2-x}\text{O}_{3-x})_z$ with x is from greater than 0 to less than 1.

IPC 8 full level

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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)

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Citation (search report)

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Designated contracting state (EPC)

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