

Title (en)
MANUFACTURE OF A CERAMIC COMPONENT

Title (de)
HERSTELLUNG EINES KERAMISCHEN BAUTEILS

Title (fr)
FABRICATION D'UN COMPOSANT EN CÉRAMIQUE

Publication
EP 4244197 A1 20230920 (FR)

Application
EP 21806290 A 20211112

Priority
• EP 20207183 A 20201112
• EP 2021081598 W 20211112

Abstract (en)
[origin: WO2022101450A1] Sintered technical ceramic based on zirconia ZrO₂, characterised in that it comprises: - less than or equal to 3.6 wt % and greater than or equal to 2.5 wt % of yttrium oxide Y₂O₃; - at least one complementary component from hafnium oxide HfO₂, alumina Al₂O₃, and magnesium oxide MgO; - at least one additional element from Fe, Ni, Cr, Zn, Co, Mn, Cu, Ti, Ta, W, Pt, the weight proportion of said at least one additional element being greater than or equal to 0.1 wt %, or greater than or equal to 0.5 wt %, or greater than or equal to 1 wt %, or greater than or equal to 1.5 wt %.

IPC 8 full level
C04B 35/486 (2006.01); **A44C 5/00** (2006.01); **A44C 27/00** (2006.01)

CPC (source: EP US)
A44C 27/001 (2013.01 - EP US); **C04B 35/486** (2013.01 - EP); **C04B 35/4885** (2013.01 - US); **C04B 35/638** (2013.01 - US); **C04B 35/64** (2013.01 - US); **C04B 41/0072** (2013.01 - US); **C04B 41/4535** (2013.01 - US); **C04B 41/458** (2013.01 - US); **C04B 41/5036** (2013.01 - US); **C04B 41/87** (2013.01 - US); **C04B 2235/3206** (2013.01 - EP US); **C04B 2235/3217** (2013.01 - EP US); **C04B 2235/3225** (2013.01 - EP US); **C04B 2235/3232** (2013.01 - EP); **C04B 2235/3241** (2013.01 - EP US); **C04B 2235/3244** (2013.01 - EP); **C04B 2235/3246** (2013.01 - US); **C04B 2235/3251** (2013.01 - EP); **C04B 2235/3258** (2013.01 - EP); **C04B 2235/3262** (2013.01 - EP); **C04B 2235/3272** (2013.01 - EP US); **C04B 2235/3275** (2013.01 - EP); **C04B 2235/3279** (2013.01 - EP US); **C04B 2235/3281** (2013.01 - EP); **C04B 2235/3284** (2013.01 - EP); **C04B 2235/3289** (2013.01 - EP); **C04B 2235/3418** (2013.01 - EP); **C04B 2235/616** (2013.01 - EP US); **C04B 2235/762** (2013.01 - EP); **C04B 2235/765** (2013.01 - EP); **C04B 2235/77** (2013.01 - EP US); **C04B 2235/781** (2013.01 - EP); **C04B 2235/785** (2013.01 - EP US); **C04B 2235/786** (2013.01 - EP); **C04B 2235/96** (2013.01 - EP)

Citation (search report)
See references of WO 2022101450A1

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

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2022101450 A1 20220519; CN 116437832 A 20230714; EP 4244197 A1 20230920; JP 2023548934 A 20231121; US 2024010570 A1 20240111

DOCDB simple family (application)
EP 2021081598 W 20211112; CN 202180076381 A 20211112; EP 21806290 A 20211112; JP 2023528244 A 20211112; US 202118252329 A 20211112