

Title (en)
HARD PZT CERAMIC, PIEZOELECTRIC MULTILAYER COMPONENT AND METHOD FOR PRODUCING A PIEZOELECTRIC MULTILAYER COMPONENT

Title (de)
HARTE PZT-KERAMIK, PIEZOELEKTRISCHES VIELSCHICHTBAUELEMENT UND VERFAHREN ZUR HERSTELLUNG EINES PIEZOELEKTRISCHEN VIELSCHICHTBAUELEMENTS

Title (fr)
CÉRAMIQUE PZT DURE, ÉLÉMENT DE CONSTRUCTION MULTICOUCHE PIÉZOÉLECTRIQUE ET PROCÉDÉ DE FABRICATION D'UN ÉLÉMENT DE CONSTRUCTION MULTICOUCHE PIÉZOÉLECTRIQUE

Publication
EP 3658520 A1 20200603 (DE)

Application
EP 18732297 A 20180612

Priority
• DE 102017116925 A 20170726
• EP 2018065499 W 20180612

Abstract (en)
[origin: WO2019020265A1] The invention relates to a hard lead-zirconate-titanate (PZT) ceramic of general structure ABO₃, which has A areas and B areas, wherein the PZT ceramic has a doping on the B areas with Mn and Nb with the ratio Nb/Mn < 2. The invention also relates to a piezoelectric multilayer component comprising such a PZT ceramic and to a method for producing a piezoelectric multilayer component.

IPC 8 full level
C04B 35/491 (2006.01); **C04B 35/626** (2006.01); **C04B 35/64** (2006.01); **H01L 41/00** (2013.01); **H01L 41/273** (2013.01)

CPC (source: EP US)
C04B 35/491 (2013.01 - EP US); **C04B 35/62605** (2013.01 - EP); **C04B 35/64** (2013.01 - EP US); **C04B 37/021** (2013.01 - US); **H10N 30/053** (2023.02 - EP US); **H10N 30/40** (2023.02 - US); **H10N 30/8554** (2023.02 - EP US); **H10N 30/877** (2023.02 - EP); **C04B 2235/3201** (2013.01 - EP US); **C04B 2235/3208** (2013.01 - EP); **C04B 2235/3213** (2013.01 - EP); **C04B 2235/3215** (2013.01 - EP); **C04B 2235/3217** (2013.01 - EP); **C04B 2235/3224** (2013.01 - EP); **C04B 2235/3227** (2013.01 - EP); **C04B 2235/3234** (2013.01 - US); **C04B 2235/3251** (2013.01 - EP); **C04B 2235/3255** (2013.01 - EP US); **C04B 2235/3262** (2013.01 - EP US); **C04B 2235/3263** (2013.01 - EP); **C04B 2235/3272** (2013.01 - EP); **C04B 2235/3281** (2013.01 - EP US); **C04B 2235/3284** (2013.01 - EP); **C04B 2235/3286** (2013.01 - EP); **C04B 2235/3287** (2013.01 - EP); **C04B 2235/3291** (2013.01 - EP); **C04B 2235/3293** (2013.01 - EP); **C04B 2235/3294** (2013.01 - EP); **C04B 2235/3296** (2013.01 - US); **C04B 2235/3298** (2013.01 - EP); **C04B 2235/656** (2013.01 - US); **C04B 2235/768** (2013.01 - EP US); **C04B 2235/79** (2013.01 - EP); **C04B 2237/348** (2013.01 - US); **C04B 2237/407** (2013.01 - US)

Citation (search report)
See references of WO 2019020265A1

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

DOCDB simple family (publication)
WO 2019020265 A1 20190131; CN 110914219 A 20200324; CN 110914219 B 20221018; DE 102017116925 A1 20190131; DE 102017116925 B4 20210422; EP 3658520 A1 20200603; JP 2020524655 A 20200820; JP 7033615 B2 20220310; US 11608301 B2 20230321; US 2020131093 A1 20200430

DOCDB simple family (application)
EP 2018065499 W 20180612; CN 201880049720 A 20180612; DE 102017116925 A 20170726; EP 18732297 A 20180612; JP 2019571288 A 20180612; US 201816621149 A 20180612