

Title (en)
LEAD ZIRCONATE TITANATES AND METHOD FOR THE PRODUCTION THEREOF

Title (de)
BLEIZIRKONATTITANATE UND VERFAHREN ZU DEREN HERSTELLUNG

Title (fr)
ZIRCONATES TITANATES DE PLOMB ET PROCÉDÉ DE PRODUCTION ASSOCIÉ

Publication
EP 2411347 A1 20120201 (DE)

Application
EP 10710338 A 20100325

Priority
• EP 2010053941 W 20100325
• DE 102009001857 A 20090325

Abstract (en)
[origin: WO2010108988A1] The invention relates to piezoceramic compositions in the form of lead zirconate titanates (PZT), to a method for their production using fine-grained titanium dioxide particles, a fine-grained zirconium compound and a lead compound. The invention also relates to a piezoelectric component containing a lead zirconate titanate.

IPC 8 full level
C04B 35/491 (2006.01); **C04B 35/626** (2006.01)

CPC (source: EP)
C01G 25/006 (2013.01); **C04B 35/491** (2013.01); **C04B 35/62675** (2013.01); **H10N 30/853** (2023.02); **C01P 2002/72** (2013.01); **C01P 2004/61** (2013.01); **C01P 2006/10** (2013.01); **C01P 2006/12** (2013.01); **C01P 2006/40** (2013.01); **C01P 2006/80** (2013.01); **C04B 2235/3227** (2013.01); **C04B 2235/3251** (2013.01); **C04B 2235/3272** (2013.01); **C04B 2235/5409** (2013.01); **C04B 2235/6567** (2013.01); **C04B 2235/6587** (2013.01); **C04B 2235/72** (2013.01); **C04B 2235/724** (2013.01); **C04B 2235/77** (2013.01); **C04B 2235/79** (2013.01)

Citation (search report)
See references of WO 2010108988A1

Citation (examination)
• EP 1690844 A1 20060816 - KYOCERA CORP [JP]
• "Piezoelectric Ceramics", 1 January 1971, ISBN: 978-0-12-379550-2, article BERNARD JAFFE: "Piezoelectric Ceramics", pages: 154 - 160, XP055544108
• NIALI J. DONNELLY ET AL: "Addition of a Sr, K, Nb (SKN) Combination to PZT(53/47) for High Strain Applications", JOURNAL OF THE AMERICAN CERAMIC SOCIETY., vol. 90, no. 2, 12 January 2007 (2007-01-12), US, pages 490 - 495, XP055543653, ISSN: 0002-7820, DOI: 10.1111/j.1551-2916.2006.01450.x

Designated contracting state (EPC)
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 SE SI SK SM TR

DOCDB simple family (publication)
WO 2010108988 A1 20100930; EP 2411347 A1 20120201

DOCDB simple family (application)
EP 2010053941 W 20100325; EP 10710338 A 20100325