

(19)



(11)

EP 2 836 463 B8

(12)

CORRECTED EUROPEAN PATENT SPECIFICATION

(15) Correction information:

Corrected version no 1 (W1 B1)
Corrections, see
Bibliography INID code(s) 54

(51) Int Cl.:

C01G 33/00 ^(2006.01) **C04B 35/495** ^(2006.01)
B32B 18/00 ^(2006.01) **H01G 4/12** ^(2006.01)
H01L 41/187 ^(2006.01) **H02N 2/10** ^(2006.01)

(48) Corrigendum issued on:

27.03.2019 Bulletin 2019/13

(86) International application number:

PCT/JP2013/060764

(45) Date of publication and mention of the grant of the patent:

02.01.2019 Bulletin 2019/01

(87) International publication number:

WO 2013/157452 (24.10.2013 Gazette 2013/43)

(21) Application number: **13722861.5**

(22) Date of filing: **03.04.2013**

(54) **SODIUM NIOBATE POWDER, METHOD FOR PRODUCING THE SAME, METHOD FOR PRODUCING CERAMIC, AND PIEZOELECTRIC ELEMENT**

NATRIUMNIOBATPULVER, VERFAHREN ZUR HERSTELLUNG DESSELBEN, VERFAHREN ZUR HERSTELLUNG EINER KERAMIK, UND PIEZOELEKTRISCHES ELEMENT

POUDRE DE NIOBATE DE SODIUM, SON PROCÉDÉ DE PRODUCTION, PROCÉDÉ DE FABRICATION D'UNE CÉRAMIQUE, ET ÉLÉMENT PIÉZO-ÉLECTRIQUE

(84) Designated Contracting States:

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

- **FURUTA, Tatsuo**
Tokyo 146-8501 (JP)
- **HAYASHI, Jumpei**
Tokyo 146-8501 (JP)

(30) Priority: **16.04.2012 JP 2012093069**

(74) Representative: **WESER & Kollegen**
Radeckestraße 43
81245 München (DE)

(43) Date of publication of application:
18.02.2015 Bulletin 2015/08

(73) Proprietor: **Canon Kabushiki Kaisha**
Tokyo 146-8501 (JP)

(56) References cited:
EP-A1- 2 418 174 EP-A2- 1 808 908
WO-A1-2012/165267

(72) Inventors:

- **MASUBUCHI, Tomoaki**
Tokyo 146-8501 (JP)
- **AIBA, Toshiaki**
Tokyo 146-8501 (JP)
- **IFUKU, Toshihiro**
Tokyo 146-8501 (JP)
- **KUBOTA, Makoto**
Tokyo 146-8501 (JP)
- **WATANABE, Takayuki**
Tokyo 146-8501 (JP)

- **LIANG JI ET AL: "Polymorphology of sodium niobate based on two different bidentate organics", MATERIALS RESEARCH BULLETIN, ELSEVIER, KIDLINGTON, GB, vol. 45, no. 3, 1 March 2010 (2010-03-01), pages 314-317, XP002684632, ISSN: 0025-5408, DOI: 10.1016/J.MATERRESBULL.2009.12.003 [retrieved on 2009-12-16]**

Note: Within nine months of the publication of the mention of the grant of the European patent in the European Patent Bulletin, any person may give notice to the European Patent Office of opposition to that patent, in accordance with the Implementing Regulations. Notice of opposition shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

EP 2 836 463 B8

- O'CALLAGHAN S A ET AL: "Synthesis and processing of nanosized sodium potassium niobate powders", MATERIALS SCIENCE AND TECHNOLOGY, MANEY PUBLISHING, GB, vol. 25, no. 11, 1 November 2009 (2009-11-01), pages 1302-1306, XP009170981, ISSN: 0267-0836, DOI: 10.1179/026708309X12474766656137