

Title (en)
NOVEL CERAMIC FERROELECTRIC COMPOSITE MATERIAL - BSTO-MgO

Title (de)
NEUER KERAMISCHER FERROELEKTRISCHER VERBUNDWERKSTOFF

Title (fr)
NOUVEAU MATERIAU COMPOSITE CERAMIQUE FERROELECTRIQUE A BASE DE BSTO/MgO

Publication
EP 0705230 A4 19960717 (EN)

Application
EP 94920023 A 19940524

Priority

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- US 7629193 A 19930609
- US 20744694 A 19940307

Abstract (en)
[origin: WO9429236A1] A novel ceramic ferroelectric material having a low dielectric constant, extremely low loss and high tunability. The material is a composite comprising Barium Strontium Titanate (BSTO) and a ceramic material having a low dielectric constant. The preferred composite is represented by Ba_{1-x}Sr_xTiO₃-MgO, wherein x is greater than 0.00, but less than or equal to 0.75, and wherein the percent weight ratio between Ba_{1-x}Sr_xTiO₃ and MgO ranges from approximately 99 % - 40 % and 1 % - 60 %, respectively. The novel materials possess superior electronic properties; and they may be employed in various antenna systems at both microwave and millimeter wave range frequencies.

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C04B 35/46

IPC 8 full level
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CPC (source: EP)
C04B 35/465 (2013.01); **H01Q 1/38** (2013.01)

Citation (search report)

- [AP] DATABASE WPI Week 9339, Derwent World Patents Index; AN 93-306543, XP002000889
- See references of WO 9429236A1

Designated contracting state (EPC)
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