

Title (en)
FERROELECTRIC THIN FILMS OF REDUCED TETRAGONALITY

Title (de)
FERROELEKTRISCHE DÜNNSCHICHTEN MIT REDUZierter TETRAPONALITÄT

Title (fr)
FILMS FERROELECTRIQUES MINCES A TETRAGONALITE REDUITE

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Application
EP 99948440 A 19990924

Priority
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Abstract (en)
[origin: WO0017936A1] A ferroelectric material, especially as incorporated into a crystallographically oriented epitaxial ferroelectric cell, of Pb1-xLaxZryTi1-yO3 or Pb1-xNbxZryTi1-yO3 having a moderately high La or Nb content such that the unit cell is less tetragonal, that is, more nearly cubic, so as to reduce stress effects. A most preferred value of the c/a constant is about 1.01. Exemplary compositional ranges for x are 6 to 20 % for La and 3 to 15 % for Nb, when y is 20 %. The reduced polarizabilities voltages are consistent with integrated ferroelectric memories operating at 3.0V and lower.

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