

Title (en)

PGO SOLUTIONS FOR THE PREPARATION OF PGO THIN FILMS VIA SPIN COATING

Title (de)

PGO LÖSUNGEN FÜR DIE HERSTELLUNG VON DÜNNEN PGO FILMEN MITTELS SPIN-COATINGS

Title (fr)

SOLUTIONS DE PGO UTILISEES DANS LA PREPARATION DE FILMS MINCES DE PGO PAR REVETEMENT PAR CENTRIFUGATIONSOLUTIONS DE PGO UTILISEES DANS LA PREPARATION DE FILMS MINCES DE PGO PAR REVETEMENT PAR CENTRIFUGATION

Publication

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Application

EP 02711271 A 20020131

Priority

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Abstract (en)

[origin: WO03065438A1] A method of preparing a PGO solution for spin coating includes preparing a 2-methoxyethanol organic solvent; adding Pb(OCH₃CO)₂·3H₂O to the organic solvent at ambient temperature and pressure in a nitrogen-filled gloved box to form Pb in methoxyethanol; refluxing the solution in a nitrogen atmosphere at 150 °C for at least two hours; fractionally distilling the refluxed solution at approximately 150 °C to remove all of the water from the solution; cooling the solution to room temperature; determining the Pb concentration of the solution; adding the 2-methoxyethanol solution to the Pb 2-methoxyethanol until a desired Pb concentration is achieved; combining Ge(OR)₄, where R is taken from the group of Rs consisting of CH₂CH₃ and CH(CH₃)₂, and 2-methoxyethanol; and adding Ge(OR)₄ 2-methoxyethanol to PbO 2-methoxyethanol to form the PGO solution having a predetermined metal ion concentration and a predetermined Pb:Ge molar ratio.

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