

Title (en)

USE OF SUPERCONDUCTOR COMPONENTS IN THIN LAYERS AS VARIABLE INDUCTANCE AND DEVICES INCLUDING SAID COMPONENTS AND CORRESPONDING CONTROL METHOD

Title (de)

VERWENDUNG VON SUPRALEITERKOMPONENTEN IN DÜNNEN SCHICHTEN ALS VARIABLE INDUKTIVITÄT UND DIE KOMPONENTEN ENTHALTENDE BAUTEILE SOWIE ENTSPRECHENDES STEUERVERFAHREN

Title (fr)

UTILISATION DE COMPOSANTS SUPRACONDUCTEURS EN COUCHES MINCES COMME INDUCTANCE VARIABLE, DISPOSITIFS INCLUANT DE TELS COMPOSANTS, ET PROCEDE DE COMMANDE ASSOCIE

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Application

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Abstract (en)

[origin: WO2006075098A1] The invention relates to a use of a superconductor component in thin layers as a variable inductance. The invention further relates to devices permitting such a use and a method for control of the inductance of such a component. The superconducting inductive component comprises a stack of thin layers of, alternately, electrical insulating material and superconducting material. The inductance thereof varies as a function of the current passing through the same, as part of an alternating current, or by injection of a direct current, superimposed on an alternating current.

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