

Title (en)

SUPERCONDUCTING DEVICE WITH INDUCTIVE CURRENT LIMITER USING A HIGH-TC SUPERCONDUCTING MATERIAL

Title (de)

SUPRALEITUNGSEINRICHTUNG MIT INDUKTIVER STROMBEGRENZEREINHEIT UNTER VERWENDUNG VON HOCH-TC-SUPRALEITERMATERIAL-----

Title (fr)

DISPOSITIF SUPRACONDUCTEUR COMPORTANT UNE UNITE DE LIMITATION DE COURANT INDUCTIVE REALISEE A L'AIDE D'UN MATERIAU SUPRACONDUCTEUR HOTE TC

Publication

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Application

**EP 01953888 A 20010709**

Priority

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- DE 10035634 A 20000721

Abstract (en)

[origin: WO0209129A1] The invention relates to a superconducting device (22) that comprises an inductive current limiter (28a, 29b) with an annular element (27a, 27b) produced from high-Tc superconducting material. The device is further provided with a soft-magnetic yoke leg (26c, 26d) enclosed by said material and with a transformer (23) with primary and secondary windings (24, 25) and a soft-magnetic flux element (26) with a plurality of yoke legs (26a-26e). The magnetic flux element (26) is designed to contain between the primary winding (24) and the secondary winding (25) of the transformer (23) the yoke leg (26c, 26d) of the current limiter (28), the conductor of one winding (24) producing a switch current for the current limiter (28).

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