

Title (en)

DEVICE FOR COUPLING AN RF-SQUID TO A SUPER CONDUCTING TANK CIRCUIT

Title (de)

ANORDNUNG ZUR ANKOPPLUNG EINES rf-SQUID AN EINEN SUPRALEITENDEN TANKSCHWINGKREIS

Title (fr)

DISPOSITIF POUR LE COUPLAGE D'UN ANNEAU DE COMMUTATION RF A UN CIRCUIT BOUCHON SUPRACONDUCTEUR

Publication

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Application

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Abstract (en)

[origin: US6300760B1] In an arrangement for coupling an rf-SQUID to a superconducting tank circuit and to a base plate, in which the tank circuit and the rf-SQUID form a coplanar structure and the tank circuit has a slit, the base plate (10) is configured as an outer loop (10a) coplanar to the rf-SQUID (2) and the tank circuit (1) and has a slit (11), and the tank circuit (1) comprises an inner loop (1a) in which the slit (4) is embodied, whereby the orientation of the slits (4, 11) of the inner loop (1a) and the outer loop (10a) relative to one another determines the resonance frequency fr.

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