

Title (en)

SYSTEM FOR CREATING A MAGNETIC FIELD VIA A SUPERCONDUCTING MAGNET

Title (de)

SYSTEM ZUM ERZEUGEN EINES MAGNETFELDS ÜBER EINEN SUPRALEITENDEN MAGNETEN

Title (fr)

SYSTEME DE CREATION D'UN CHAMP MAGNETIQUE VIA UN AIMANT SUPRACONDUCTEUR

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Application

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Abstract (en)

[origin: WO2009063150A1] The invention relates to a system (100) for creating a magnetic field via a superconducting magnet (102) intended to produce the magnetic field. According to the invention, the system (100) includes a first branch including the superconducting magnet (102) formed by a coil inductor (L') in series with a residual resistor (R'2), a second branch including a protection resistor (R'3) and a third branch including a power source (103). The system also includes a fourth branch formed by a resistor (R'1) mounted in series with a current-limiting superconducting device (106) switching from a low-resistance state to a high-resistance state when the current passing therethrough exceeds a breaking current, said first, second, third and fourth branches being mounted in parallel.

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