Title (en)

DEVICE FOR REDUCING PHASE ERROR OF A SUPERCONDUCTING UNDULATOR

Title (de)

VORRICHTUNG ZUR VERRINGERUNG DES PHASENFEHLERS EINES SUPRALEITENDEN UNDULATORS

Title (fr)

DISPOSITIF POUR RÉDUIRE L'ERREUR DE PHASE D'UN ONDULATEUR SUPRACONDUCTEUR

Publication

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Application

EP 09749568 A 20090513

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Abstract (en)

[origin: WO2009141078A1] The invention relates to a device for reducing the phase error of a superconducting undulator, having two rows of magnetic poles disposed next to each other, the magnetic fields of any two adjacent poles in one of the rows having different signs, characterized in that the device comprises at least one closed superconducting loop disposed such that at least two poles in one of the two rows have a superconducting loop encompassing said poles. The device according to the invention automatically compensates for the phase error of the superconducting undulator. The phase error can thereby be reduced, without cooling, heating, and re-cooling of the superconducting undulator being necessary.

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