

Title (en)
SYNCHROTRON RADIATION SOURCE WITH FIXATION OF ITS CURVED COILS

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Application
EP 88100522 A 19880115

Priority
DE 3702388 A 19870128

Abstract (en)
[origin: US4843333A] A synchrotron radiation source contains a particle track with a curved track section. A beam guiding chamber surrounding the particle track has an exit opening for the synchrotron radiation leading in an outward direction. A magnetic device has superconducting coil windings located on both sides of the particle track having a peripheral outer rim. In addition, a device for the mechanical fixation of the superconducting coil windings is provided. The fixation device has at least one support element at the peripheral outer rim of the magnetic device. The support element is located further outward than the exit opening for the synchrotron radiation and acts substantially perpendicular to the direction of the radiation. The support element is covered from the synchrotron radiation by a radiation absorber. The use of a support element provides simple and safe support for the superconducting coil windings in the area of the radiation exit opening.

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H05H 7/04

IPC 8 full level
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CPC (source: EP US)
H05H 7/00 (2013.01 - EP US); **H05H 7/04** (2013.01 - EP US)

Cited by
USRE48047E; US5341104A; US10925147B2; US9730308B2; USRE48317E; US10258810B2; US10456591B2; US9622335B2; US10368429B2; US9706636B2; US10675487B2; US9681531B2; US9962560B2; US10155124B2; US10254739B2; US10646728B2; US10786689B2; US11213697B2; US11786754B2; US9661736B2; US9723705B2; US10434331B2; US11103730B2; US11717700B2; US9925395B2; US10279199B2; US10722735B2; US9950194B2; US10653892B2; US11291861B2; US11311746B2; US11717703B2

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