Title (en)

SYNCHROTRON

Publication

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Application

EP 87115175 A 19871016

Priority

DE 3636841 A 19861029

Abstract (en)

[origin: US4808941A] For accelerating charged particles, an acceleration path in the form of a race track is provided with straight track sections and curved track sections with which dipole magnets with curved flat coils are associated and which are provided radially outward with at least one exit opening for synchrotron radiation. According to the invention, an absorber (20) is arranged in the chambers (16) of the curved track sections (3, 4) and a support structure (60) is provided between the dipole magnets (22, 23) behind the absorber (20) in the direction of the synchrotron radiation (18). The absorber (20) can advantageously be provided with additional cooling. The support structure serves as a spacer for the superconducting dipole magnets (22, 23) of the curved track sections (3, 4). The support structure for the flat coils is thereby simplified accordingly.

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H05H 7/06; H05H 13/04

IPC 8 full level

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CPC (source: EP US)

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Cited by

RU2477936C2; EP0426277A3; US5177448A; EP0420671A3; EP0315134A3; US4931744A; DE3928037A1; GB2223350A; GB2223350B; EP0282988A3; US4994753A; EP0277521A3

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