

Title (en)

MAGNETIC FIELD GENERATOR, AND MAGNETOCALORIC DEVICE COMPRISING SAID MAGNETIC FIELD GENERATOR

Title (de)

MAGNETFELDGENERATOR UND MAGNETOKALORISCHE VORRICHTUNG MIT DIESEM MAGNETFELDGENERATOR

Title (fr)

GENERATEUR DE CHAMP MAGNETIQUE ET DISPOSITIF MAGNETOCALORIQUE COMPORTANT LEDIT GENERATEUR DE CHAMP MAGNETIQUE

Publication

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Application

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Priority

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- CH 2011000163 W 20110713

Abstract (en)

[origin: WO2012006752A2] The invention relates to a magnetic field generator (10) comprising an assembly of anisotropic permanent magnets (30) that define air gaps (40) within which the magnetic flux is concentrated. The permanent magnet assembly consists of two assembly elements (21, 22) mounted on a carrier (50) symmetrically relative to a central axis of symmetry (A-A) and perpendicular to a middle plane (B-B) of the air gaps (40). The carrier (50) includes two substantially identical portions, i.e. an upper portion (50a) and a lower portion (50b). The upper portion (50a) consists of two identical arms (51a, 51b) arranged symmetrically relative to the central axis of symmetry (A-A). The lower portion (50b) consists of two identical arms (52a, 52b) arranged symmetrically relative to the central axis of symmetry (A-A). The ends of the identical arms (51a, 51b) have two anisotropic permanent magnets (30), respectively, wherein said permanent magnets are provided in the form of parallelepiped or cubical blocks. The magnetic circuit generated in each of the arms is closed by an arcuate block (61, 62) that is made of a ferromagnetic material and mounted on the end faces of the corresponding permanent magnets (30).

IPC 8 full level

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