

Title (en)

MAGNETO-ELECTRIC CONVERTER AND ELECTRICITY GENERATOR COMPRISING SAID CONVERTER

Title (de)

MAGNETO-ELEKTRISCHER WANDLER UND STROMGENERATOR MIT DIESEM WANDLER

Title (fr)

CONVERTISSEUR MAGNETO-ELECTRIQUE ET GENERATEUR D'ELECTRICITE COMPRENANT LEDIT CONVERTISSEUR

Publication

**EP 4309215 A1 20240124 (FR)**

Application

**EP 22714485 A 20220317**

Priority

- FR 2102796 A 20210319
- FR 2022050482 W 20220317

Abstract (en)

[origin: WO2022195229A1] The invention relates to a magneto-electric converter (100) capable of converting a variation of a magnetic field (B) into a potential difference between two electrical terminals, including: a stack (10) having an upper face and a lower face, which are parallel to a reference plane (x,y), and comprising a first layer of piezoelectric material rigidly connected to a second layer of magnetostrictive material, the first and second layers extending parallel to the reference plane (x,y) and each having a polarisation axis (P) and a main magnetisation axis (A) normal to the reference plane (x,y), the first layer being provided with two metal electrodes connected to the two electrical terminals, a cage (20) comprising two immobilising walls, which are respectively in contact, with no degree of freedom, with the upper face and the lower face of the stack (10). The invention also relates to a generator (150) comprising said converter (100) and at least one magnetic source (50).

CPC (source: EP)

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Citation (search report)

See references of WO 2022195229A1

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