

Title (en)
A MAGNETIC POWER UNIT

Title (de)
MAGNETISCHE ANTRIEBSEINHEIT

Title (fr)
GÉNÉRATEUR D'ÉNERGIE MAGNÉTIQUE

Publication
EP 3319174 A1 20180509 (EN)

Application
EP 16002348 A 20161104

Priority
EP 16002348 A 20161104

Abstract (en)
The magnetic poser unit (100) comprises a magnetic core (10) including a first, a second and a third winding channels (2a, 2b, 2c) respectively arranged around a first, a second and a third crossing axis (A-A, B-B, C-C) orthogonal to each other, each of said winding channels (2a, 2b, 2c) being intended for receiving one coil wound around the magnetic core (10), each coil having at least one turn. The crossing axis (A-A, B-B, C-C) define orthogonal planes providing eight octants, each including a protrusion defining a protruding spacer (20), being spaced to each other by said winding channels (2a, 2b, 2c). The magnetic core (10) is a composed core formed by several different partial magnetic cores assembled together including two side partial magnetic cores (12), each including four protruding spacers (20). The magnetic core (10) further includes a through hole (30) housing a device for heat dissipation (50).

IPC 8 full level
H01Q 7/06 (2006.01); **H01F 27/26** (2006.01)

CPC (source: EP)
H01F 27/263 (2013.01); **H01Q 7/06** (2013.01); **H01F 27/18** (2013.01)

Citation (applicant)
US 4210859 A 19800701 - CARMON AMIRAM [IL], et al

Citation (search report)
• [Y] EP 1315178 A1 20030528 - ABB RESEARCH LTD [CH]
• [Y] EP 1526606 A1 20050427 - TOKO INC [JP]
• [Y] US 2015310976 A1 20151029 - TONG AI-XING [CN], et al
• [A] EP 2360704 A1 20110824 - SUMIDA CORP [JP]
• [A] JP 2005236098 A 20050902 - TOKO INC
• [A] EP 2315220 A1 20110427 - SUMITOMO ELECTRIC INDUSTRIES [JP]
• [A] WO 2005045992 A1 20050519 - PEMETZRIEDER NEOSID [DE], et al

Cited by
EP4060693A1; WO2022194517A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3319174 A1 20180509; EP 3319174 B1 20200812; ES 2832423 T3 20210610

DOCDB simple family (application)
EP 16002348 A 20161104; ES 16002348 T 20161104