

Title (en)
ELECTROMAGNETIC MOBILE ACTIVE SYSTEM

Title (de)
ELEKTROMAGNETISCHES MOBILES WIRKSYSTEM

Title (fr)
SYSTÈME ACTIF MOBILE ÉLECTROMAGNÉTIQUE

Publication
EP 3279603 B1 20181226 (DE)

Application
EP 17001096 A 20170628

Priority
DE 102016009408 A 20160804

Abstract (en)
[origin: US2018038675A1] An electromagnetic mobile active system for fitting in a missile with a detonation-operated magnetic field compressor. The magnetic field compressor has at least one stator coil and at least one armature casing, which is at least partially surrounded by the stator coil and kept at a radial distance. The magnetic field compressor has at least one explosive charge embedded in the armature casing. The magnetic field compressor has at least one power source. For activating the detonation of the explosive charge, a trigger system is provided. The trigger system can be controlled by a pulse of current from the power source, depending on a signal supplied by the missile. A great amount of electrical energy can be generated in the stator coil by the detonation. For the directional radiation of the electrical energy generated by the detonation of the explosive charge, the active system has at least one directional antenna.

IPC 8 full level
F41H 13/00 (2006.01)

CPC (source: EP US)
F41H 13/0043 (2013.01 - EP US); **F41H 13/0093** (2013.01 - EP US); **F42C 19/0838** (2013.01 - US); **F42C 19/09** (2013.01 - US); **F42B 15/00** (2013.01 - US); **F42B 30/00** (2013.01 - US)

Citation (opposition)
Opponent : **BAAIN Bw**
• FR 2783316 A1 20000317 - TDA ARMEMENTS SAS [FR]
• DE 19916952 A1 20030717 - DIEHL STIFTUNG & CO [DE]
• FR 2783316 A1 20000317 - TDA ARMEMENTS SAS [FR]
• DE 19916952 A1 20030717 - DIEHL STIFTUNG & CO [DE]
• "Explosively Driven Pulsed Power - Helical Magnetic Flux Compression Generators", 10 March 2005, article ANDREAS A. NEUBER, pages: 97 - 109; 235 -245, XP055592631
• B.M. NOVAC ET AL.: "Practical Considerations in Helical Flux-Compression Generator Design", vol. 3, no. 4, 2003, pages 490 - 496, XP055592641
• "Explosively Driven Pulsed Power - Helical Magnetic Flux Compression Generators", 2005, article ANDREAS A. NEUBER, pages: 97 - 109; 235 -245, XP055592631
• B.M. NOVAC ET AL.: "Practical Considerations in Helical Flux-Compression Generator Design", ELECTROMAGNETIC PHENOMENA, vol. 3, no. 4, 2003, pages 490 - 496, XP055592641

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CN111013058A; US10415937B2; DE102022112269A1; DE202023100801U1; DE102023104158A1; DE202023101056U1; DE102023105496A1; WO2023170054A1; DE102022105464A1; DE102022004989A1; DE202023100401U1; DE202023100548U1; DE102022112677A1; DE102023102766A1; DE102023102094A1; DE102023100265A1

Designated contracting state (EPC)
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DOCDB simple family (application)
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