

Title (en)

AXIAL GAP ELECTRIC MACHINE WITH PERMANENT MAGNETS ARRANGED BETWEEN POSTS

Title (de)

ELEKTRISCHE MASCHINE MIT AXIALEM SPALT MIT ZWISCHEN PFOSTEN ARRANGIERTEN PERMANENTMAGNETEN

Title (fr)

MACHINE ÉLECTRIQUE À ENTREFER AXIAL À AIMANTS PERMANENTS DISPOSÉS ENTRE DES MONTANTS

Publication

**EP 3485556 A4 20200729 (EN)**

Application

**EP 17826733 A 20170714**

Priority

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- US 201615235088 A 20160811
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- CA 2017050857 W 20170714

Abstract (en)

[origin: WO2018010030A1] There is a method of aligning a plurality of electromagnetic elements in an electric machine. The electric machine has a first carrier having an array of electromagnetic elements and a second carrier having an array of posts defining slots between each post. The carriers are arranged to move relative to each other. The carriers are placed in axial alignment and so that an airgap is formed between them. A plurality of permanent magnets is provided, each having a pair of magnetic poles. The plurality of permanent magnets is placed one at a time in an alternating polarity arrangement in the slots so that for each post in the array of posts the two permanent magnets placed adjacent to the post are oriented so that the magnetic poles of each permanent magnet face towards the post.

IPC 8 full level

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CPC (source: EP KR US)

**F16C 19/10** (2013.01 - KR); **F16C 19/188** (2013.01 - KR); **F16C 19/49** (2013.01 - KR); **F16C 19/545** (2013.01 - KR); **F16C 35/061** (2013.01 - KR); **F16C 35/067** (2013.01 - KR); **H02K 1/146** (2013.01 - EP KR); **H02K 1/2795** (2022.01 - EP KR US); **H02K 7/08** (2013.01 - EP); **H02K 7/088** (2013.01 - EP KR); **H02K 15/16** (2013.01 - KR); **H02K 16/04** (2013.01 - EP KR); **H02K 21/24** (2013.01 - EP KR); **F16C 19/10** (2013.01 - EP); **F16C 19/188** (2013.01 - EP); **F16C 19/49** (2013.01 - EP); **F16C 19/545** (2013.01 - EP); **F16C 35/061** (2013.01 - EP); **F16C 35/067** (2013.01 - EP); **F16C 2322/59** (2013.01 - EP KR); **F16C 2380/26** (2013.01 - EP KR)

Citation (search report)

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- [Y] US 8026626 B1 20110927 - MELLER MOSHE [IL]
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- See references of WO 2018010031A1

Designated contracting state (EPC)

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