

Title (en)
VERNIER MACHINE WITH INSERTED MAGNETS

Title (de)
VERNIER-MASCHINE MIT EINGEFÜGTEN MAGNETEN

Title (fr)
MACHINE VERNIER A AIMANTS INSÉRÉS

Publication
EP 2433349 A1 20120328 (FR)

Application
EP 10728776 A 20100518

Priority
• FR 2010050957 W 20100518
• FR 0953282 A 20090518

Abstract (en)
[origin: WO2010133796A1] The present invention relates to an electrodynamic Vernier machine with magnets, including a stator and a rotor, wherein: the stator includes teeth separated by notches opening into the air gap, said teeth defining a periodic pattern having a substantially constant pitch P_s ; the rotor includes pads having an average width L_p and separated by notches opening into the air gap, said pads defining a periodic pattern having a substantially constant pitch P_r , P_r being different from P_s ; said rotor includes magnets arranged in said notches, all the magnets having the same magnetic pole on the air gap side, characterized in that the average width L_p of the rotor pads is lower than 0.5 times the pitch P_r of said pads, said average width L_p being calculated over the height of the pad.

IPC 8 full level
H02K 21/14 (2006.01)

CPC (source: EP US)
H02K 1/278 (2013.01 - EP US); **H02K 21/02** (2013.01 - EP); **H02K 21/16** (2013.01 - EP); **H02K 2213/03** (2013.01 - EP)

Citation (search report)
See references of WO 2010133796A1

Cited by
PL422805A1; PL422728A1; PL423608A1

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 SE SI SK SM TR

Designated extension state (EPC)
BA ME RS

DOCDB simple family (publication)
FR 2945683 A1 20101119; FR 2945683 B1 20110520; EP 2433349 A1 20120328; WO 2010133796 A1 20101125

DOCDB simple family (application)
FR 0953282 A 20090518; EP 10728776 A 20100518; FR 2010050957 W 20100518