

Title (en)
Electromagnetic ultrasound converter

Title (de)
Elektromagnetischer Ultraschallwandler

Title (fr)
Transducteur à ultrasons électromagnétique

Publication
EP 2407251 B1 20130605 (DE)

Application
EP 11005723 A 20110713

Priority
DE 102010027250 A 20100715

Abstract (en)
[origin: EP2407251A1] The transducer has permanent magnets (1) arranged in rows (R1-R4) adjacent to each other such that magnetic polarities (N, S) assigned to the magnets are periodically alternated with periodic length that corresponds to a track wavelength. Conductor sections (L1, L2) of a high frequency coil arrangement are arranged along rows and run parallel to each other, where the coil arrangement is provided in an opposite direction of current. The permanent magnets are arranged relative to other magnets and displaced around the semi track wavelength.

IPC 8 full level
B06B 1/04 (2006.01)

CPC (source: EP US)
B06B 1/04 (2013.01 - EP US)

Cited by
CN110496768A; CN110603442A; US11359917B2

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

DOCDB simple family (publication)
EP 2407251 A1 20120118; EP 2407251 B1 20130605; DE 102010027250 A1 20120119; US 2012014222 A1 20120119;
US 8806949 B2 20140819

DOCDB simple family (application)
EP 11005723 A 20110713; DE 102010027250 A 20100715; US 201113179965 A 20110711