

Title (en)

DEVICE FOR PRODUCING HIGH-FREQUENCY VIBRATIONS AND METHOD FOR OPERATING SAID DEVICE

Title (de)

VORRICHTUNG ZUM ERZEUGEN VON HOCHFREQUENTEN SCHWINGUNGEN SOWIE VERFAHREN ZU DEREN BETREIBEN

Title (fr)

DISPOSITIF POUR GÉNÉRER DES VIBRATIONS À HAUTE FRÉQUENCE ET PROCÉDÉ POUR FAIRE FONCTIONNER CE DISPOSITIF

Publication

EP 2331268 A2 20110615 (DE)

Application

EP 09783445 A 20090925

Priority

- EP 2009062477 W 20090925
- DE 102008042419 A 20080926

Abstract (en)

[origin: WO2010034828A2] Proposed are devices (1; 101; 201; 301; 401; 501; 601; 701; 801; 901; 1001) for generating high-frequency vibrations, said devices comprising at least one ultrasound converter (12) and at least one ultrasound oscillator (20; 120) connected to the ultrasound converter (12), wherein a sleeve (25; 125) is fastened to the periphery of the ultrasound oscillator (20; 120). These devices are characterized in particular by individual element geometries that allow the sleeve to excite transverse vibrations in particular, said vibrations then able to be used for various purposes.

IPC 8 full level

B06B 3/00 (2006.01)

CPC (source: EP)

B06B 3/00 (2013.01)

Citation (search report)

See references of WO 2010034828A2

Designated contracting state (EPC)

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)

AL BA RS

DOCDB simple family (publication)

WO 2010034828 A2 20100401; WO 2010034828 A3 20100715; DE 102008042419 A1 20100401; EP 2331268 A2 20110615; EP 2331268 B1 20190717

DOCDB simple family (application)

EP 2009062477 W 20090925; DE 102008042419 A 20080926; EP 09783445 A 20090925