

Title (en)

Vibration cutting device and method of vibration cutting

Title (de)

Vibrationsschneidvorrichtung und ein Verfahren zum Vibrationsschneiden

Title (fr)

Dispositif de coupe à vibrations et procédé destiné à la coupe à vibrations

Publication

**EP 2065146 B1 20150826 (DE)**

Application

**EP 08020238 A 20081120**

Priority

DE 102007057468 A 20071129

Abstract (en)

[origin: EP2065146A1] The device has a controller for electrically activating a vibrating head (10) to vibrate the vibrating head in a frequency range below a kilohertz range. A cutting tool (50) i.e. saw, is arranged between retainers (30, 40). The retainer (30) is connected with the vibrating head using a leaf-spring pile (60) such that the mechanical vibration of the vibrating head is transferred onto the cutting tool. A vibrating head (70) is connected with the retainer (40). The vibrating heads are mechanically or electrically connected with each other. An independent claim is also included for a method for performing vibration cutting.

IPC 8 full level

**B26D 7/08** (2006.01); **B26D 1/06** (2006.01); **B26D 1/553** (2006.01)

CPC (source: EP US)

**B26D 7/086** (2013.01 - EP US); **B26D 1/06** (2013.01 - EP US); **B26D 1/553** (2013.01 - EP US); **Y10T 83/04** (2015.04 - EP US); **Y10T 83/7076** (2015.04 - EP US); **Y10T 83/9292** (2015.04 - EP US)

Citation (examination)

- US 5341054 A 19940823 - TAL ZEEV [US], et al
- JP 2003061713 A 20030304 - KURARAY CO

Cited by

CN106363683A; FR3057195A1; EP2554344A1

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 MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 2065146 A1 20090603**; **EP 2065146 B1 20150826**; CN 101909834 A 20101208; CN 101909834 B 20150617; DE 102007057468 A1 20090610; DE 102007057468 B4 20121004; JP 2011504816 A 20110217; JP 5442629 B2 20140312; US 2010288092 A1 20101118; WO 2009068293 A1 20090604

DOCDB simple family (application)

**EP 08020238 A 20081120**; CN 200880124500 A 20081127; DE 102007057468 A 20071129; EP 2008010091 W 20081127; JP 2010535292 A 20081127; US 74410108 A 20081127