

Title (en)
Sonotrode for an ultrasound processing apparatus

Title (de)
Sonotrode für ein Ultraschall-Bearbeitungsgerät

Title (fr)
Sonotrode pour un appareil de traitement à ultrason

Publication
EP 0594541 B1 19970115 (DE)

Application
EP 93810735 A 19931020

Priority
CH 325892 A 19921021

Abstract (en)
[origin: EP0594541A2] The sonotrode is annular and vibrates as a flexural vibrator at one of its natural frequencies, preferably with four nodes distributed over its circumference. As a result, the vibrations initiated along the axis (10) at the input (17) can be picked up along an output axis (19) angled away by 90° at the output (18). Due to this design, even relatively inaccessible workpieces can be efficiently machined with ultrasonics.
<IMAGE>

IPC 1-7
B06B 3/00

IPC 8 full level
B06B 3/00 (2006.01); **B60B 3/00** (2006.01)

CPC (source: EP US)
B06B 3/00 (2013.01 - EP US)

Cited by
DE102012105349A1; WO2013117509A2; WO2008129570A1; WO9522938A3; WO2012123182A2; US9629690B2; WO2007101362A2; US8876529B2; US9339355B2; US10300453B2; US10758372B2

Designated contracting state (EPC)
AT BE CH DE ES FR GB IT LI PT SE

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EP 0594541 A2 19940427; EP 0594541 A3 19940921; EP 0594541 B1 19970115; AT E147666 T1 19970215; CH 689445 A5 19990430; DE 59305134 D1 19970227; ES 2098711 T3 19970501; JP 3739418 B2 20060125; JP H06198249 A 19940719; US 5426341 A 19950620

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