

Title (en)
RESONANCE OSCILLATOR

Title (de)
RESONANZSCHWINGER

Title (fr)
OSCILLATEUR A RESONANCE

Publication
EP 0500765 B1 19970305 (DE)

Application
EP 91900029 A 19901109

Priority
• DE 3937365 A 19891109
• DE 4020881 A 19900629
• EP 9001882 W 19901109

Abstract (en)
[origin: DE4020881A1] A resonance oscillator comprises an active, e.g. disk-shaped, oscillator part (2) which is brought into contact, forming a couple oscillator, with a passive, relatively long oscillator part. This oscillator part, which basically determines the resonance frequency, consists of a variable-length solid column or liquid column (11) the length of which can be varied continuously in the direction of the sound vector in order to change the resonance frequency. The active oscillator part (2) is mounted on the base of an elongated resonance container (6) which contains the liquid that forms the liquid column (11). The length of the liquid column is varied by sliding a piston (5). The resonance container (6) is bounded by a corrosion-resistant, high-strength covering disk (7) of minimal thickness and is connected to an equalizing container (9) which receives the liquid displaced by the piston from the resonance container and returns the liquid to the resonance container.

IPC 1-7
G10K 11/04; **B06B 1/06**

IPC 8 full level
B06B 1/06 (2006.01); **G10K 11/02** (2006.01); **G10K 11/04** (2006.01); **H04R 17/10** (2006.01)

CPC (source: EP US)
B06B 1/0677 (2013.01 - EP US); **G10K 11/04** (2013.01 - EP US)

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AT BE CH DE DK ES FR GB GR IT LI LU NL SE

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WO 9107741 A2 19910530; **WO 9107741 A3 19910627**; AT E149726 T1 19970315; DE 4020881 A1 19910516; DE 59010665 D1 19970410; EP 0500765 A1 19920902; EP 0500765 B1 19970305; ES 2100940 T3 19970701; JP 3023420 B2 20000321; JP H05508269 A 19931118; US 5315565 A 19940524

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