

Title (en)

METHOD OF TUNING AN ULTRASONIC DEVICE, ULTRASONIC DEVICE AND MACHINE FOR PERFORMING AN ULTRASONIC TOOLING OPERATION

Publication

**EP 0247752 A3 19880803 (EN)**

Application

**EP 87304161 A 19870511**

Priority

GB 8611510 A 19860512

Abstract (en)

[origin: EP0247752A2] To ensure that an ultrasonic tool is driven at an optimum frequency, the phases of the voltage applied to the transducer and the current flowing through the transducer are compared, and an error signal is generated dependant upon the divergence of the phase difference from a desired difference, which may be zero phase difference. The error signal is functional to vary the frequency at which the ultrasonic device is driven, in the direction to reduce the error signal, so that the ultrasonic device can be driven at zero error signal (i.e. the desired current/voltage phase relationship) and thus at maximum efficiency.

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**B06B 1/02**; G01H 13/00

IPC 8 full level

**B06B 1/02** (2006.01)

CPC (source: EP)

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Citation (search report)

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