

Title (en)

Method for operating a fluid-atomising ultrasonic atomiser.

Title (de)

Verfahren zum Betrieb eines Ultraschallzerstäubers zur Flüssigkeitszerstäubung.

Title (fr)

Procédé pour actionner un pulvérisateur à ultrasons afin de pulvériser des fluides.

Publication

EP 0219693 A1 19870429 (DE)

Application

EP 86112865 A 19860917

Priority

DE 3534853 A 19850930

Abstract (en)

[origin: US4689515A] In an ultrasonic frequency generating assembly including a frequency generator coupled to a transducer through an output stage, a current measuring circuit is coupled to the output stage for sampling the current therethrough during each frequency burst upon the passage of a predetermined time interval following the onset of the respective frequency burst. The current value measured during a frequency burst is compared with a measured current value from an immediately preceding burst, the frequency output of the frequency generator being modified in accordance with the results of the comparison. The compared current values are stored in respective memories, the most recently measured current value being transferred from one memory to the other upon the termination of the comparison. A new current value is then loaded into the first memory.

Abstract (de)

Zum Betrieb eines Ultraschallflüssigkeitszerstäubers (3), vorzugsweise mit einer Piezokeramik (4), die gegebenenfalls einen temperaturabhängigen Widerstand (10) aufweist, wird für den automatischen Frequenzabgleich eine Strommessung während der Zeitdauer des Burstimpulses t1 nach einer Verzögerungszeit t3 für die Zeitspanne t4 vorgenommen. Die Summe aus der Verzögerungszeit t3 und der Zeitspanne t4 darf nicht größer als die Burstzeit t1 sein.

IPC 1-7

B06B 1/06; **B05B 12/00**

IPC 8 full level

B05B 12/00 (2006.01); **B05B 15/14** (2018.01); **B05B 17/06** (2006.01); **B06B 1/02** (2006.01); **B06B 1/06** (2006.01)

CPC (source: EP US)

B05B 12/08 (2013.01 - EP US); **B05B 15/14** (2018.01 - EP); **B05B 17/0623** (2013.01 - EP US); **B05B 17/063** (2013.01 - EP US); **B05B 17/0669** (2013.01 - EP US); **B06B 1/0253** (2013.01 - EP US); **B06B 2201/55** (2013.01 - EP US); **B06B 2201/77** (2013.01 - EP US)

Citation (search report)

- [A] FR 2421513 A1 19791026 - GABORIAUD PAUL [FR]
- [A] US 4275363 A 19810623 - MISHIRO SHOJI, et al
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Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 0219693 A1 19870429; **EP 0219693 B1 19911009**; AT E68111 T1 19911015; DE 3534853 A1 19870402; DE 3681871 D1 19911114; US 4689515 A 19870825

DOCDB simple family (application)

EP 86112865 A 19860917; AT 86112865 T 19860917; DE 3534853 A 19850930; DE 3681871 T 19860917; US 91095986 A 19860924