

Title (en)  
METHOD AND DEVICE FOR ULTRASONIC CLEANING

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR ULTRASCHALLREINIGUNG

Title (fr)  
PROCÉDÉ ET DISPOSITIF DE NETTOYAGE PAR ULTRASONS

Publication  
**EP 3260209 A1 20171227 (EN)**

Application  
**EP 16382293 A 20160623**

Priority  
EP 16382293 A 20160623

Abstract (en)  
A method for ultrasonic cleaning of a part (60, 600) which comprises: applying a cleaning solution on a surface (65, 650) of a part (60, 600) to be cleaned; moving (M) a device (10, 10', 100) comprising a sonotrode (4, 4', 40, 50) along said surface (65, 650), maintaining a distance (D) between said surface (65, 650) and the output surface (4e, 4e', 40e, 50e) of the sonotrode (4, 4', 40, 50) closest to said surface (65, 650); applying ultrasonic vibration (V) by the output surface (4e, 4e', 40e, 50e) of the sonotrode (4, 4', 40, 50), wherein the applied ultrasonic vibration (V) has a certain vibration amplitude; as a consequence of said ultrasonic vibration (V), generating a linear homogeneous column (20) of cleaning solution between said output surface (4e, 4e', 40e, 50e) of the sonotrode (4, 4', 40, 50) and said surface (65, 650) and exposing said surface (65, 650) in contact with said linear homogeneous column (20) of cleaning solution to cavitation, thus removing dirt (70) from said surface (65, 650).

IPC 8 full level  
**B08B 3/12** (2006.01); **A47L 1/02** (2006.01)

CPC (source: EP ES)  
**A47L 1/02** (2013.01 - EP ES); **A47L 1/08** (2013.01 - EP ES); **A47L 11/03** (2013.01 - EP ES); **A47L 11/125** (2013.01 - EP ES); **A47L 13/26** (2013.01 - EP ES); **B08B 3/12** (2013.01 - EP ES)

Citation (search report)

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Designated extension state (EPC)  
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DOCDB simple family (publication)  
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**EP 16382293 A 20160623**; EP 2017064645 W 20170614; ES 201890083 A 20170614