

Title (en)  
DESCALING DEVICE

Title (de)  
ENTZUNDERUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF DE DÉCALAMINAGE

Publication  
**EP 3461561 B1 20211229 (DE)**

Application  
**EP 18195481 A 20180919**

Priority  
DE 102017122802 A 20170929

Abstract (en)  
[origin: US2019099791A1] A descaling device having a device housing, a shaft, a shaft bearing, a nozzle head and a medium coupling, wherein the shaft bearing is arranged in the device housing and the shaft is mounted in the device housing by the shaft bearing for carrying out a rotary movement, wherein the shaft and the nozzle head are detachably connected to one another in a non-destructive manner, wherein the medium coupling has a medium connection for supply of a medium, wherein the shaft has a shaft cavity for conducting the medium supplied at the medium connection to the nozzle head. The descaling device has an improved maintainability and reliability due to the descaling device having a motor, and due to the motor being arranged on the shaft in the device housing between the nozzle head and the medium coupling in order to generate the rotary movement of the shaft.

IPC 8 full level  
**B05B 3/02** (2006.01); **B05B 1/14** (2006.01); **B05B 13/04** (2006.01); **B21B 45/08** (2006.01)

CPC (source: CN EA EP KR US)  
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Citation (opposition)  
Opponent : Hermetik Pump International GmbH  
• DE 9216438 U1 19930114  
• US 4690325 A 19870901 - PACTH AMOS [US]  
• DE 102014109160 A1 20151231 - HAMMELMANN PAUL MASCHF [DE]  
• DE 4328303 C2 19970213 - GAYDOUL JUERGEN [SE]  
• US 3850373 A 19741126 - GROLITSCH E  
• DE 202015101733 U1 20150423 - EBM PAPST MULFINGEN GMBH & CO [DE]

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**DE 102017122802 B3 20181025**; BR 102018069784 A2 20190416; BR 102018069784 A8 20230207; CN 109570247 A 20190405; CN 109570247 B 20220705; EA 038496 B1 20210907; EA 201891935 A2 20190329; EA 201891935 A3 20190830; EP 3461561 A1 20190403; EP 3461561 B1 20211229; JP 2019063871 A 20190425; JP 7260274 B2 20230418; KR 20190038457 A 20190408; PL 3461561 T3 20220816; TW 201922371 A 20190616; TW I766107 B 20220601; US 10894279 B2 20210119; US 2019099791 A1 20190404; US 2021107048 A1 20210415

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