

Title (en)

DEVICE AND METHOD FOR CLEANING OR DRYING WORK PIECES

Title (de)

VORRICHTUNG UND VERFAHREN ZUM REINIGEN ODER TROCKNEN VON WERKSTÜCKEN

Title (fr)

PROCEDE ET DISPOSITIF POUR NETTOYER OU SECHER DES PIECES

Publication

**EP 0973620 B1 20030806 (DE)**

Application

**EP 98930632 A 19980408**

Priority

- DE 9801006 W 19980408
- DE 19714603 A 19970409

Abstract (en)

[origin: US6253462B1] A device and method for cleaning and drying workpieces in a treatment vessel in which a reduced pressure can be provided. During the cleaning process, a liquid bath is formed in the treatment vessel (1), said liquid bath at least partially surrounding the work pieces, and cleaning fluid and optionally a gaseous medium are introduced into the treatment vessel under excess pressure via a spray unit. The workpiece support moves up and down or rotates so that the work pieces are subjected alternately to different cleaning processes in the liquid bath and a gas space located above said liquid bath.

IPC 1-7

**B08B 3/04**; **B08B 3/10**; **C23G 3/00**

IPC 8 full level

**B08B 3/04** (2006.01); **B08B 3/10** (2006.01); **C23G 3/00** (2006.01); **F26B 5/04** (2006.01); **F26B 7/00** (2006.01); **F26B 11/18** (2006.01)

CPC (source: EP US)

**B08B 3/045** (2013.01 - EP US); **B08B 3/10** (2013.01 - EP US); **F26B 5/04** (2013.01 - EP US); **F26B 5/048** (2013.01 - EP US); **F26B 5/14** (2013.01 - EP US); **F26B 7/00** (2013.01 - EP US); **F26B 11/18** (2013.01 - EP US); **F26B 11/181** (2013.01 - EP US)

Citation (examination)

- DE 4446588 A1 19960627 - IPSEN IND INT GMBH [DE]
- DE 4446589 A1 19960627 - IPSEN IND INT GMBH [DE]
- DE 4328199 C1 19941013 - DUERR GMBH & CO [DE]
- DE 4111099 C1 19921015
- DE 4324432 A1 19950126 - MULTIMATIC OBERFLAECHENTECHNIK [DE]

Cited by

CN109078957A; EP2543600A2

Designated contracting state (EPC)

AT CH DE FR LI

DOCDB simple family (publication)

**US 6253462 B1 20010703**; AT E246552 T1 20030815; AU 8101098 A 19981030; BR 9808526 A 20000523; CA 2286102 A1 19981015; CA 2286102 C 20070918; DE 19714603 C1 19981029; DE 59809214 D1 20030911; EP 0973620 A1 20000126; EP 0973620 B1 20030806; EP 0973620 B2 20080625; EP 1342969 A2 20030910; EP 1342969 A3 20060607; EP 1342969 B1 20130529; WO 9845059 A1 19981015

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