

Title (en)

ACIDIC CLEANING METHOD FOR MACHINE DISHWASHING

Title (de)

SAUREREINIGUNGSVERFAHREN FÜR GESCHIRRRSPÜLEN IN DER MASCHINE

Title (fr)

PROCEDE DE NETTOYAGE ACIDE POUR LAVAGE DE VAISSELLE EN MACHINE

Publication

EP 1567289 B2 20170607 (EN)

Application

EP 03772309 A 20031106

Priority

- DE 10257391 A 20021206
- EP 0312366 W 20031106

Abstract (en)

[origin: WO2004052564A1] The process of continuous machine dishwashing, which can be carried out in single-tank or multi-tank machines, is improved by the machine-operated process disclosed. This is achieved, in particular, by treatment of the tableware at least in one process step with an acidic cleaning solution and in another process step with an alkaline cleaning solution, comprising the steps of: a) applying an acidic aqueous cleaning solution to the at least partly soiled tableware and b) removing the acidic aqueous solution and the soil in one or more following steps, the at least one alkaline treatment taking place before and/or after the acidic treatment and the alkaline and at least acidic aqueous cleaning solution at least partially neutralizing one another.

IPC 8 full level

B08B 3/04 (2006.01); **A47L 15/00** (2006.01); **C11D 3/00** (2006.01); **C11D 7/00** (2006.01); **C11D 7/06** (2006.01); **C11D 7/08** (2006.01); **C11D 7/26** (2006.01); **C11D 7/34** (2006.01); **C11D 11/00** (2006.01)

CPC (source: EP)

C11D 7/06 (2013.01); **C11D 7/08** (2013.01); **C11D 7/265** (2013.01); **C11D 7/34** (2013.01); **C11D 2111/14** (2024.01); **C11D 2111/44** (2024.01)

Cited by

US8092613B2; US8709167B2; US8882932B2; WO2024164162A1; US9357898B2; US10165925B2; US10925460B2; US11304587B2; US11812914B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2004052564 A1 20040624; AT E362807 T2 20070615; AU 2003279362 A1 20040630; AU 2003279362 A2 20040630; AU 2003279362 B2 20090312; BR 0316171 A 20050927; CA 2502423 A1 20040624; CA 2502423 C 20100803; DE 10257391 A1 20040624; DE 60314007 D1 20070705; DE 60314007 T2 20080124; DE 60314007 T3 20171012; EP 1567289 A1 20050831; EP 1567289 B1 20070523; EP 1567289 B2 20170607

DOCDB simple family (application)

EP 0312366 W 20031106; AT 03772309 T 20031106; AU 2003279362 A 20031106; BR 0316171 A 20031106; CA 2502423 A 20031106; DE 10257391 A 20021206; DE 60314007 T 20031106; EP 03772309 A 20031106