

Title (en)

CLEANING METHOD FOR REMOVING STARCH

Title (de)

REINIGUNGSVERFAHREN ZUR STÄRKEENTFERNUNG

Title (fr)

PROCEDE D'EPURATION DESTINE A L'ELIMINATION D'AMIDON

Publication

EP 1392807 A1 20040303 (DE)

Application

EP 02743135 A 20020531

Priority

- DE 10127919 A 20010608
- EP 0205964 W 20020531

Abstract (en)

[origin: US2004173244A1] The described cleaning process comprises an alkaline and an acid cleaning step as well as one or more additional alkaline and/or acid cleaning steps, in particular for the mechanical cleaning of crockery in commercial dishwashers, in which primarily deposits of starch can be removed exceptionally well.

IPC 1-7

C11D 3/02; C11D 3/20; C11D 7/06; C11D 7/08; C11D 7/26

IPC 8 full level

A47L 15/00 (2006.01); **B08B 3/08** (2006.01); **C11D 3/02** (2006.01); **C11D 3/20** (2006.01); **C11D 7/06** (2006.01); **C11D 7/08** (2006.01); **C11D 7/26** (2006.01); **C11D 7/34** (2006.01); **C11D 7/36** (2006.01); **C11D 11/00** (2006.01); **C11D 17/00** (2006.01)

CPC (source: EP US)

C11D 7/06 (2013.01 - EP US); **C11D 7/08** (2013.01 - EP US); **C11D 7/265** (2013.01 - EP US); **C11D 7/34** (2013.01 - EP US); **C11D 7/36** (2013.01 - EP US); **C11D 2111/14** (2024.01 - EP US); **C11D 2111/44** (2024.01 - EP US)

Citation (search report)

See references of WO 02100993A1

Cited by

US9357898B2; US10165925B2; US10925460B2; US11304587B2; US11812914B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

US 2004173244 A1 20040909; AT E277157 T1 20041015; CA 2448548 A1 20021219; CA 2448548 C 20100525; DE 10127919 A1 20021219; DE 50201125 D1 20041028; EP 1392807 A1 20040303; EP 1392807 B1 20040922; ES 2230503 T3 20050501; JP 2004533301 A 20041104; JP 4202910 B2 20081224; PL 201167 B1 20090331; PL 367269 A1 20050221; WO 02100993 A1 20021219

DOCDB simple family (application)

US 47966903 A 20031204; AT 02743135 T 20020531; CA 2448548 A 20020531; DE 10127919 A 20010608; DE 50201125 T 20020531; EP 0205964 W 20020531; EP 02743135 A 20020531; ES 02743135 T 20020531; JP 2003503746 A 20020531; PL 36726902 A 20020531