

Title (en)  
PROCESS FOR THE CONTINUOUS MACHINE-CLEANING OF UTILITY CROCKERY.

Title (de)  
VERFAHREN ZUR KONTINUIERLICHEN MASCHINELLEN REINIGUNG VON GEBRAUCHSGESCHIRR.

Title (fr)  
PROCEDE POUR LE LAVAGE CONTINU EN MACHINE DE LA VAISSELLE D'USAGE COURANT.

Publication  
**EP 0501996 B1 19940216 (DE)**

Application  
**EP 90916716 A 19901114**

Priority  
DE 3938755 A 19891123

Abstract (en)  
[origin: WO9107904A1] The invention concerns the continuous cleaning of utility crockery in a commercial dish-washing machine with a washing zone and a subsequent rinsing zone, an increased cleaning-agent concentration being used in at least some areas in the washing liquor. The aim of the invention is to increase cleaning performance without increasing overall cleaning-agent consumption and without the need for very highly concentrated cleaning-agent solutions. This aim is achieved by the process of the invention by virtue of the fact that a major part of the washing-solution flow is taken from the last tank and fed directly into the third from last tank and/or a tank further upstream, the amount taken being more than 50 %, preferably more than 75 %, of the amount of fresh water running into the last tank. The remaining washing solution is passed through the tanks, at least from the middle and/or penultimate tank on, in cascade. In at least the middle and/or penultimate tank, the cleaning-agent concentration in the washing solution is increased by at the most the same factor as the ratio of the fresh-water flow to the remaining washing-solution flow, the addition of cleaning agent being made into this/these tank(s) only.

IPC 1-7  
**A47L 15/00**; **A47L 15/24**

IPC 8 full level  
**A47L 15/44** (2006.01); **A47L 15/00** (2006.01); **A47L 15/24** (2006.01); **B08B 3/02** (2006.01)

CPC (source: EP US)  
**A47L 15/24** (2013.01 - EP US)

Cited by  
CN110974103A; DE102009057326B4; DE102009057326A1

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB IT LI LU NL SE

DOCDB simple family (publication)  
**WO 9107904 A1 19910613**; AT E101505 T1 19940315; DE 3938755 A1 19910529; DE 3938755 C2 19910919; DE 59004641 D1 19940324; DK 0501996 T3 19940801; EP 0501996 A1 19920909; EP 0501996 B1 19940216; ES 2049050 T3 19940401; FI 922299 A0 19920520; FI 922299 A 19920520; FI 94718 B 19950714; FI 94718 C 19951025; JP 3025531 B2 20000327; JP H05501973 A 19930415; US 5356483 A 19941018

DOCDB simple family (application)  
**EP 9001945 W 19901114**; AT 90916716 T 19901114; DE 3938755 A 19891123; DE 59004641 T 19901114; DK 90916716 T 19901114; EP 90916716 A 19901114; ES 90916716 T 19901114; FI 922299 A 19920520; JP 51534590 A 19901114; US 85941992 A 19920723