

Title (en)

METHOD FOR CLEANING RETURNABLE BOTTLES

Title (de)

VERFAHREN ZUR REINIGUNG VON MEHRWEGFLASCHEN

Title (fr)

PROCEDE DE NETTOYAGE DE BOUTEILLES CONSIGNEES

Publication

**EP 1148955 B1 20050309 (DE)**

Application

**EP 00902629 A 20000125**

Priority

- DE 19904512 A 19990204
- EP 0000532 W 20000125

Abstract (en)

[origin: DE19904512A1] The novel method is used to clean returnable bottles and similar containers in the food industry. The inventive method uses an enzymatic solution instead of a high alkaline solution in conventional bottle washing machines during the cleaning process. The cleaning results are at least as good without incurring any increase in the duration of cleaning. Bottle corrosion and waste water pollution are, however, substantially reduced.

IPC 1-7

**B08B 9/28**; **C11D 3/386**

IPC 8 full level

**B08B 9/20** (2006.01); **B08B 9/28** (2006.01); **C11D 3/386** (2006.01); **C11D 11/00** (2006.01)

CPC (source: EP US)

**B08B 9/20** (2013.01 - EP US); **C11D 3/38618** (2013.01 - EP US); **C11D 2111/18** (2024.01 - EP US)

Cited by

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Designated contracting state (EPC)

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

DOCDB simple family (publication)

**US 6530386 B1 20030311**; AT E290439 T1 20050315; AU 2439800 A 20000825; DE 19904512 A1 20000817; DE 50009724 D1 20050414; EP 1148955 A1 20011031; EP 1148955 B1 20050309; PL 350164 A1 20021118; WO 0045969 A1 20000810

DOCDB simple family (application)

**US 89061201 A 20011002**; AT 00902629 T 20000125; AU 2439800 A 20000125; DE 19904512 A 19990204; DE 50009724 T 20000125; EP 0000532 W 20000125; EP 00902629 A 20000125; PL 35016400 A 20000125