

Title (en)
PROCESS FOR CLEANING ALUMINIUM CONTAINERS

Publication
EP 0234425 B1 19920708 (DE)

Application
EP 87101975 A 19870212

Priority
US 83061086 A 19860218

Abstract (en)
[origin: EP0234425A2] Aluminium containers are cleaned using alkaline cleaning solns., in which the alkaline cleaning is preceded by a precleaning with an aq. acidic soln. and followed by rinsing with an aq. soln. wherein at least a part of the rinsing soln. is employed in the precleaning step. A soln. of pH from 4 to less than 7, pref. 4.5-5.5 is employed in the precleaning step. The soln. contains 0.005-5 g/l, pref. 0.1-1 g/l, of a tensile, and has a temp. of less than 65.6 deg.C, esp. 32.2-54.4 deg.C.

IPC 1-7
C23G 1/00

IPC 8 full level
C23G 1/00 (2006.01); **C23G 1/12** (2006.01); **C23G 1/22** (2006.01)

CPC (source: EP)
C23G 1/00 (2013.01); **C23G 1/125** (2013.01); **C23G 1/22** (2013.01)

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DOCDB simple family (publication)
EP 0234425 A2 19870902; EP 0234425 A3 19890215; EP 0234425 B1 19920708; AT E78066 T1 19920715; AU 591231 B2 19891130; AU 6867887 A 19870820; CA 1286210 C 19910716; DE 3704376 A1 19870820; DE 3780186 D1 19920813; GB 2187206 A 19870903; GB 2187206 B 19901003; GB 8703714 D0 19870325; JP 2730891 B2 19980325; JP S62247090 A 19871028

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EP 87101975 A 19870212; AT 87101975 T 19870212; AU 6867887 A 19870211; CA 529575 A 19870212; DE 3704376 A 19870212; DE 3780186 T 19870212; GB 8703714 A 19870218; JP 3262287 A 19870217