

Title (en)  
LIQUID ALKALINE CLEANING CONCENTRATES

Publication  
**EP 0282863 A3 19900613 (DE)**

Application  
**EP 88103507 A 19880307**

Priority  
DE 3708330 A 19870314

Abstract (en)  
[origin: EP0282863A2] Liquid alkaline cleaner concentrates which have the following components: a) 80 to 99.7% by weight of an aqueous solution of a builder or builder mixture, containing 50 to 60% by weight of water and at least one alkali metal silicate and/or alkali metal phosphate, b) 0.3 to 22% by weight of a surfactant combination consisting of anionic surfactants, non-ionic surfactants and alkyl glucosides. Cleaner concentrates of this type are used in the cleaning of metal surfaces, in particular of steel, nonferrous metals, copper and zinc before refining processes and intermediate cleaning before working processes.

IPC 1-7  
**C11D 3/22**; C11D 1/83; C11D 1/66; C11D 3/02; C11D 3/06; C11D 3/08; C23G 1/14

IPC 8 full level  
**C11D 1/66** (2006.01); **C11D 1/83** (2006.01); **C11D 3/02** (2006.01); **C11D 3/06** (2006.01); **C11D 3/08** (2006.01); **C11D 3/22** (2006.01); **C23G 1/14** (2006.01); **C25F 1/00** (2006.01); **C11D 1/04** (2006.01); **C11D 1/44** (2006.01); **C11D 1/72** (2006.01)

CPC (source: EP KR)  
**C11D 1/662** (2013.01 - EP); **C11D 1/83** (2013.01 - EP); **C11D 3/06** (2013.01 - EP); **C11D 3/08** (2013.01 - EP); **C11D 10/045** (2013.01 - EP); **C11D 17/08** (2013.01 - KR); **C23G 1/14** (2013.01 - EP); **C11D 1/44** (2013.01 - EP); **C11D 1/72** (2013.01 - EP)

Citation (search report)  
• [A] EP 0075995 A2 19830406 - PROCTER & GAMBLE [US]  
• [AD] EP 0148087 A2 19850710 - PRODUITS IND CIE FSE [FR]  
• [A] EP 0108429 A1 19840516 - PROCTER & GAMBLE [US]  
• [A] EP 0136844 A2 19850410 - STALEY MFG CO A E [US]  
• [A] EP 0111285 A2 19840620 - HENKEL KGAA [DE]

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