

Title (en)
IMPROVED DETERGENT AND TABLEWARE CLEANER

Title (de)
VERBESSERTE WASCHMITTEL UND GESCHIRREINIGER

Title (fr)
DETERGENT ET PRODUIT A VAISSELLE AMELIORES

Publication
EP 0906394 A1 19990407 (DE)

Application
EP 97914304 A 19970325

Priority
• DE 19611989 A 19960326
• EP 9701511 W 19970325

Abstract (en)
[origin: WO9735949A1] A mixture containing (a) 0.1 to 99 wt.% of at least one polycarboxylate with at least 3 carboxyl groups, (b) 0.1 to 99 wt.% of at least one amine with a pKs of over 9, and (c) 0.1 to 99 wt.% of at least one acid selected from among mineral and organic acids with one or two carboxyl groups and 10 C atoms at the most, provided that the mixture contains less than 24 wt.% triphosphates, is used in detergent or dishwashing formulations.

IPC 1-7
C11D 3/37; C11D 3/30; C11D 3/36; C11D 1/83; C11D 3/00; C11D 3/10; C11D 3/08; C11D 3/39

IPC 8 full level
C11D 1/40 (2006.01); **C11D 1/83** (2006.01); **C11D 3/00** (2006.01); **C11D 3/08** (2006.01); **C11D 3/10** (2006.01); **C11D 3/30** (2006.01); **C11D 3/36** (2006.01); **C11D 3/37** (2006.01); **C11D 3/39** (2006.01); **C11D 7/08** (2006.01); **C11D 7/32** (2006.01)

CPC (source: EP US)
C11D 1/40 (2013.01 - EP US); **C11D 3/3761** (2013.01 - EP US); **C11D 7/08** (2013.01 - EP US); **C11D 7/3209** (2013.01 - EP US)

Citation (search report)
See references of WO 9735949A1

Designated contracting state (EPC)
DE ES FR GB

DOCDB simple family (publication)
WO 9735949 A1 19971002; AU 2160097 A 19971017; BR 9701467 A 19980825; BR 9701467 B1 20090113; BR 9708274 A 19990803; DE 59710275 D1 20030717; EP 0906394 A1 19990407; EP 0906394 B1 20030611; ES 2201281 T3 20040316; JP 2000510506 A 20000815; JP 4240535 B2 20090318; US 6172028 B1 20010109

DOCDB simple family (application)
EP 9701511 W 19970325; AU 2160097 A 19970325; BR 9701467 A 19970325; BR 9708274 A 19970325; DE 59710275 T 19970325; EP 97914304 A 19970325; ES 97914304 T 19970325; JP 53403497 A 19970325; US 15541098 A 19980928