

Title (en)
PHOSPHATE-FREE DETERGENT COMPOSITIONS

Title (de)
PHOSPHATFREIE WASCHMITTEL

Title (fr)
COMPOSITIONS DETERGENTES SANS PHOSPHATES

Publication
EP 0991747 A4 20000412 (EN)

Application
EP 96942109 A 19961127

Priority
• GB 9524922 A 19951206
• US 9619127 W 19961127

Abstract (en)
[origin: GB2307914A] A phosphate-free detergent composition suitable for use in laundry washing methods comprises from 1% to 45% by weight of the composition of a nil-phosphate builder system; a bleaching system capable of providing a hydrophobic organic peroxyacid compound having at least 7 carbon atoms; a two-component heavy metal ion sequestrant system comprising one sequestrant having a oxidizable amino linkage and a second heavy metal ion sequestrant having no such oxidizable amino linkage. Enhanced stain removal and body soil cleaning when the composition is employed in a laundry wash method.

IPC 1-7
C11D 3/39; **C11D 3/395**; **D06L 3/02**; **C11D 3/28**

IPC 8 full level
D06L 3/02 (2006.01); **C11D 3/28** (2006.01); **C11D 3/33** (2006.01); **C11D 3/36** (2006.01); **C11D 3/39** (2006.01); **C11D 3/395** (2006.01)

CPC (source: EP)
C11D 3/33 (2013.01); **C11D 3/364** (2013.01); **C11D 3/3917** (2013.01)

Citation (search report)
• [PX] WO 9616155 A1 19960530 - PROCTER & GAMBLE [US]
• [PX] WO 9629281 A1 19960926 - PROCTER & GAMBLE [US], et al
• [E] US 5731279 A 19980324 - PANCHERI EUGENE JOSEPH [US]
• [PX] EP 0699745 A2 19960306 - PROCTER & GAMBLE [US]
• [X] EP 0684304 A2 19951129 - PROCTER & GAMBLE [US]
• See references of WO 9720907A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
GB 2307914 A 19970611; **GB 9524922 D0 19960207**; AR 004998 A1 19990407; BR 9612124 A 19990217; CA 2238551 A1 19970612; EP 0991747 A1 20000412; EP 0991747 A4 20000412; JP H11500779 A 19990119; MX 9804584 A 19980930; WO 9720907 A1 19970612

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GB 9524922 A 19951206; AR P960105555 A 19961206; BR 9612124 A 19961127; CA 2238551 A 19961127; EP 96942109 A 19961127; JP 52134097 A 19961127; MX 9804584 A 19980608; US 9619127 W 19961127