

Title (en)
Builder composition

Title (de)
Bauzusammensetzung

Title (fr)
Composition d'adjuvant

Publication
EP 2154233 A1 20100217 (EN)

Application
EP 08168065 A 20081031

Priority
IN 1723MU2008 A 20080814

Abstract (en)

The present invention provides an effective builder composition comprising two precipitating builders which are (a) an alkali metal carbonate and (b) an alkali metal silicate; calcium carbonate; and a building enhancer. This building enhancer is a compound capable of precipitating magnesium ions from hard water selected from the group comprising alkali or alkaline earth metal oxides or hydroxides and alkali metal aluminate, zincate or titanate.

IPC 8 full level
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Citation (applicant)
• US 3957695 A 19760518 - DAVIES CHARLES BLOOR, et al
• US 4049586 A 19770920 - COLLIER EVERETT J

Citation (search report)

- [A] US 4174291 A 19791113 - BENJAMIN LAWRENCE [US], et al
- [DA] US 3957695 A 19760518 - DAVIES CHARLES BLOOR, et al
- [DA] US 4049586 A 19770920 - COLLIER EVERETT J
- [A] WO 9322411 A1 19931111 - UNILEVER PLC [GB], et al
- [A] WO 9840457 A1 19980917 - PROCTER & GAMBLE [US], et al
- [A] EP 0241962 A2 19871021 - UNILEVER NV [NL], et al
- [A] GB 1424406 A 19760211 - PROCTER & GAMBLE

Cited by
WO2011147646A1

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