

Title (en)

Process for making detergent compositions.

Title (de)

Verfahren zur Herstellung von Reinigungsmittelzusammensetzungen.

Title (fr)

Procédé de préparation de compositions détergentes.

Publication

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Application

EP 93870174 A 19930818

Priority

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Abstract (en)

A process for making a high active granular detergent component or composition having a bulk density of at least 650 g/l which comprises the steps of: i) making a paste or liquid which comprises at least 40% by weight of a surfactant selected from anionic and nonionic surfactants, ii) mixing said surfactant paste or liquid with a powder to form a mixture which may be in the form of either a paste or a cohesive powder; iii) forming granules by fine dispersion mixing or granulation of said mixture, optionally in the presence of an effective amount of one or more additional powders; wherein the powder used in step ii) comprises a free-flowing, premixed powder comprising from 0.5% to 10% by weight of a hydrophobic silica and from 75% to 99.5% by weight of a hygroscopic powder comprising a polymer.

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Citation (search report)

- [DA] EP 0510746 A2 19921028 - PROCTER & GAMBLE [US]
- [DA] EP 0513824 A2 19921119 - KAO CORP [JP]
- [A] EP 0368137 A1 19900516 - HENKEL KGAA [DE]
- [A] EP 0265538 A1 19880504 - SIGNALTECHNIK GMBH [DE]
- [A] DE 2134695 A1 19730125 - HENKEL & CIE GMBH
- [A] EP 0208836 A2 19870121 - DEGUSSA [DE]

Cited by

DE19961333B4; EP2740534A1; CN103480297A; CN1105182C; EP2484747A1; EP2028261A1; EP1582222A1; FR2868079A1; US7858573B2;
US6864221B1; WO2009022318A1; WO9627655A1; WO0146375A1; WO0077148A1; WO2012117030A1; WO9711153A1; WO2012117024A1;
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