

Title (en)  
PARTICULATE DETERGENT

Title (de)  
TEILCHENFÖRMIGES WASCHMITTEL

Title (fr)  
DETERGENT PARTICULAIRE

Publication  
**EP 1186651 A4 20040728 (EN)**

Application  
**EP 00937229 A 20000615**

Priority  
• JP 0003872 W 20000615  
• JP 16935099 A 19990616

Abstract (en)  
[origin: EP1186651A1] The present invention relates to detergent particles comprising 5 to 50% by weight of a phosphate builder, 5 to 40% by weight of an anionic surfactant, and 1 to 30% by weight of a nonionic surfactant, the detergent particles having an average particle size of from 150 to 500  $\mu\text{m}$ , a bulk density of 500 g/L or more, and a flow time of 10 seconds or less, wherein the detergent particles comprise a detergent particle being capable of releasing a bubble from an inner portion thereof in a process of dissolving the detergent particle in water, the bubble having a size of one-tenth or more of a particle size of the detergent particle, and wherein the detergent particles have a dissolution rate of 90% or more, as calculated by Equation 1:  $\text{Dissolution Rate (\%)} = \frac{A}{T} \times 100$ , wherein S is a weight (g) of the detergent particles supplied; and T is a dry weight of insoluble remnants of the detergent particles remaining on the sieve when an aqueous solution prepared under the above stirring conditions is filtered with the sieve. According to the present invention, the dissolubility of the particles and the flowability are increased, so that easiness in washing with the detergent during hand-washing can be improved.

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IPC 8 full level  
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Citation (search report)  
• [XY] EP 0080222 A1 19830601 - PROCTER & GAMBLE [US]  
• [Y] EP 0229671 A2 19870722 - KAO CORP [JP]  
• [PX] WO 9929829 A1 19990617 - KAO CORP [JP], et al  
• See references of WO 0077160A1

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**EP 1186651 A1 20020313; EP 1186651 A4 20040728**; CN 1179032 C 20041208; CN 1369002 A 20020911; WO 0077160 A1 20001221

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