

Title (en)

Stabilization of oxidation-sensitive ingredients in percarbonate detergent compositions.

Title (de)

Stabilisierung von oxidationsempfindlichen Wirkstoffen in Percarbonat enthaltende Detergenszusammensetzungen.

Title (fr)

Stabilisation de substances sensibles à l'oxidation dans de compositions détergentes contenant un percarbonate.

Publication

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Application

EP 93309960 A 19931210

Priority

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Abstract (en)

Granular laundry detergents are formulated with percarbonate bleach and oxidation-sensitive ingredients such as brighteners, enzymes, perfumes and the like. The storage stability of such compositions is improved by the presence of silicate. For example, the tendency of stilbene-type brighteners to form undesirable yellow shades in the presence of percarbonate is diminished by the incorporation of silicate materials into the granules.

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IPC 8 full level

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C11D 3/50 (2013.01)

Citation (search report)

- [XY] EP 0567140 A1 19931027 - KAO CORP [JP], et al
- [X] DE 4116701 A1 19920206 - MITSUBISHI GAS CHEMICAL CO [JP], et al
- [X] FR 2335594 A1 19770715 - COLGATE PALMOLIVE CO [US]
- [X] FR 2226463 A1 19741115 - KAO CORP [JP]
- [Y] G.JACOBI: "detergents and textile washing", 1987, VCH, DE,WEINHEIM, 169450

Cited by

US6448218B2; US6204239B1; EP0808358A4; EP0819164A4; AU726683B2; CZ299297B6; US5854198A; AU725258B2; US6664221B1;
WO2006029676A1; WO0032734A1; WO0075269A1; US7645853B2; US7323539B2; WO9735951A1; WO9734979A1; WO9734980A1;
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DOCDB simple family (application)

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