

Title (en)

DETERGENT COMPOSITIONS CONTAINING SILVER ANTI-TARNISHING AGENTS

Title (de)

WASCHMITTELZUSAMMENSETZUNGEN ENTHALTEND MITTEL ZUR VERHINDERUNG DES ANLAUFENS VON SILBER

Title (fr)

COMPOSITIONS DETERGENTES CONTENANT DES AGENTS EMPECHANT LE TERNISSEMENT DE L'ARGENT

Publication

EP 0723577 A1 19960731 (EN)

Application

EP 94928878 A 19941007

Priority

- EP 9403322 W 19941007
- US 13662993 A 19931014
- US 13678793 A 19931014
- US 13679193 A 19931014
- US 30145994 A 19940907
- US 30228494 A 19940908

Abstract (en)

[origin: WO9510588A1] A bleaching detergent composition which prevents or inhibits tarnishing of silver comprises: (a) a bleaching agent selected from a peroxygen or peroxygen-yielding compound, a hypohalite or hypohalite-yielding compound, or a salt thereof, or mixtures thereof; (b) an anti-tarnishing agent selected from: (i) a purine class compound; (ii) cyanuric acid or isocyanuric acid or a salt thereof; (iii) a 1,3-N azole compound; (iv) a mixture of any of the above compounds (i), (ii) or (iii); (c) optionally a builder; (d) optionally, a surfactant; wherein the composition exhibits a pH value in the range from 7 to 13, and wherein the anti-tarnishing agent has a pKa value below the pH value of an aqueous solution of the composition.

IPC 1-7

C11D 3/28; C11D 3/39; C11D 3/395

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 9510588A1

Cited by

WO2018206812A1; WO2021063560A1; WO2017148990A1; US6463939B1; WO2017153528A1; WO2018206811A1; WO2017148985A1; WO2017148989A1; WO2022161793A1; WO2014198547A2; WO2024089079A1; WO2013092276A1; WO2021170398A1; WO2021170427A1; WO2022200053A1

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