

Title (en)

Use of oxidized humic acid its salts and derivatives in laundry compositions

Title (de)

Verwendung von oxidierte Huminsäure deren Salze und Derivate in Waschmittelzusammensetzungen

Title (fr)

Utilisation des produits d'oxydation de l'acide humique leurs sels et derives dans des compositions de lessive

Publication

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Application

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Priority

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Abstract (en)

The present invention relates to the field of laundry compositions. In particular this invention relates to the use of oxidized humic acid compounds, its salts and derivatives or its mixtures, in laundry compositions. Such cleaning compositions have improved foaming capacities due to excellent builder properties of oxidized humic acid, its salts and derivatives. This effective builder is useful for enhancement of cleaning capacity. Cleaning compositions of the present invention are prepared by using oxidized humic acid, its salts and derivatives or mixtures thereof and used for cleaning purposes of fabric, cloth, carpet, fibre, woven or nonwoven textile of any art.

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

- US 5451244 A 19950919 - CASTLEDINE B WAYNE [US]
- US 5201930 A 19930413 - CAMPBELL WILLIAM E [US]
- WO 2010094985 A1 20100826 - LOMOVSKIY OLEG IVANOVICH [RU], et al
- DE 19624982 A1 19980108 - PFUELLER UWE DR [DE], et al

Citation (search report)

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- [I] ALLARD ET AL: "Oxidation of humic acids from an agricultural soil and a lignite deposit: Analysis of lipophilic and hydrophilic products", ORGANIC GEOCHEMISTRY, PERGAMON, AMSTERDAM, NL, vol. 38, no. 12, 14 November 2007 (2007-11-14), pages 2036 - 2057, XP022344502, ISSN: 0146-6380, DOI: 10.1016/J.ORGGEOCHEM.2007.08.005
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