

Title (en)
LIMESCALE REMOVING COMPOSITION

Title (de)
ZUSAMMENSETZUNG ZUM ENTFERNEN VON KESSELSTEIN

Title (fr)
COMPOSITION PERMETTANT D'ENLEVER DES DEPOTS CALCAIRES

Publication
EP 0730628 A1 19960911 (EN)

Application
EP 95900745 A 19941112

Priority

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Abstract (en)
[origin: WO9514756A1] The invention provides limescale-removing compositions of pH 1-4, comprising maleic acid, a nonionic surfactant, an anionic surfactant, a perfume and an alpha-hydroxy carboxylic acid (preferably citric acid). It is believed that the combination of alpha-hydroxy carboxylic acid with maleic acid is less toxic and less prone to decomposition than an equivalent amount of maleic acid, i.e. an amount which provides comparable limescale-removing performance. However, it is also believed that the alpha-hydroxy carboxylic acid interacts with the nonionic surfactant to destabilise the product in the absence of the anionic surfactant. Thus, there is believed to a synergistic interaction between the components which provides a stable and effective composition containing the alpha-hydroxy fatty acid as a partial replacer for the maleic acid.

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Citation (search report)
See references of WO 9514756A1

Citation (examination)

- DATABASE WPI Week 8818, Derwent Publications Ltd., London, GB; AN 88-124390 &
- JP,A,63 069 895 (KAO) 29 March 1988

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CH DE ES FR GB IT LI NL SE

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WO 9514756 A1 19950601; AU 678313 B2 19970522; AU 8143694 A 19950613; BR 9408132 A 19970805; CA 2175677 A1 19950601; DE 69409254 D1 19980430; DE 69409254 T2 19980716; EP 0730628 A1 19960911; EP 0730628 B1 19980325; ES 2113723 T3 19980501

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