

Title (en)

Liquid aqueous bleaching compositions and pretreatment process

Title (de)

Flüssige wässrige Bleichmittelzusammensetzungen und Vorbehandlungsverfahren

Title (fr)

Compositions de blanchiment liquide aqueuses et méthode de prétraitement

Publication

**EP 0839903 A1 19980506 (EN)**

Application

**EP 96870137 A 19961031**

Priority

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Abstract (en)

The present invention relates to an acidic aqueous composition suitable for pretreating soiled fabrics comprising a peroxygen bleach and a soil suspending agent selected from the group consisting of an ethoxylated cationic diamine, an ethoxylated cationic polyamine, an ethoxylated cationic amine polymer and mixtures thereof. This invention is also a process for pretreating soiled fabrics with such a composition.

IPC 1-7

**C11D 3/39; C11D 3/37**

IPC 8 full level

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CPC (source: EP KR)

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Citation (applicant)

- EP 0271312 A2 19880615 - PROCTER & GAMBLE [US]
- US 4659802 A 19870421 - RUBINGH DONN N [US], et al
- EP 0111965 A2 19840627 - PROCTER & GAMBLE [US]
- US 2792372 A 19570514 - DICKSON WOODROW J
- US 2182306 A 19391205 - HEINRICH ULRICH, et al
- US 3033746 A 19620508 - MOYLE CLARENCE L, et al
- US 2208095 A 19400716 - PAUL ESSELMANN, et al
- US 2806839 A 19570917 - MILTON CROWTHER, et al
- US 2533696 A 19501212 - SCHAEFFER GEORGE W, et al
- GB 809060 A 19590218 - HEDLEY THOMAS & CO LTD
- US 2965576 A 19601220 - WILSON EUGENE R
- US 2703798 A 19550308 - SCHWARTZ ANTHONY M
- US 1985424 A 19341225 - ALFRED PIGGOTT HENRY
- WO 9206070 A1 19920416 - PROCTER & GAMBLE [US]
- GB 1082179 A 19670906 - CITRIQUE BELGE NV
- US 3929678 A 19751230 - LAUGHLIN ROBERT GENE, et al
- GB 1586769 A 19810325 - PROCTER & GAMBLE LTD
- GB 2143231 A 19850206 - PROCTER & GAMBLE
- EP 0062523 A2 19821013 - PROCTER & GAMBLE [US], et al
- US 4818425 A 19890404 - MEIJER JOHN [NL], et al
- US 4259201 A 19810331 - COCKRELL JR JOHN R, et al
- EP 0624154 A1 19941117 - PROCTER & GAMBLE [US]
- US 3812044 A 19740521 - CONNOR D, et al
- US 4704233 A 19871103 - HARTMAN FREDERICK A [US], et al
- US 4721580 A 19880126 - GOSSELINK EUGENE P [US]
- US 4000093 A 19761228 - NICOL CHARLES HENRY, et al
- EP 0219048 A2 19870422 - BASF AG [DE]
- US 3959230 A 19760525 - HAYS HUGH ROBERT
- US 3893929 A 19750708 - BASADUR MARINO S
- US 4702857 A 19871027 - GOSSELINK EUGENE P [US]
- US 4968451 A 19901106 - SCHEIBEL JEFFREY J [US], et al
- US 4711730 A 19871208 - GOSSELINK EUGENE P [US], et al
- US 4877896 A 19891031 - MALDONADO RENE [US], et al
- US 5415807 A 19950516 - GOSSELINK EUGENE P [US], et al
- EP 0262897 A2 19880406 - UNILEVER PLC [GB], et al
- EP 0256696 A1 19880224 - UNILEVER PLC [GB], et al
- US 4790856 A 19881213 - WIXON HAROLD E [US]
- SCHUMB W.C., SATTERFIELD C.N., WENTWORTH R.L.: "Hydrogen Peroxide.", 1955, REINHOLD PUBLISHING CORPORATION., NEW YORK.
- SWERN D.: "Organic Peroxides.", 1970, WILEY INT. SCIENCE.
- SCHWARTZ, PERRY, BERCH.: "Surface Active Agents and Detergents.", vol. I AND II
- BECHER P.: "Emulsions Theory and Practice.", 1957, REINHOLD., NEW YORK.
- APPLICATION CONTAINS STILL MORE REFERENCES.

Citation (search report)

- [DA] EP 0111965 A2 19840627 - PROCTER & GAMBLE [US]
- [A] WO 9626999 A1 19960906 - PROCTER & GAMBLE [US], et al
- [A] US 4561991 A 19851231 - HERBOTS IVAN [BE], et al
- [A] PATENT ABSTRACTS OF JAPAN vol. 096, no. 004 30 April 1996 (1996-04-30)

Cited by

EP1291410A1; EP0995792A1; CN105431515A; JP2016527332A; US10093884B2; US9267095B2; US9840681B2; US10519400B2; US6586382B1; WO03022976A1; WO2014190129A1; WO9942551A1; WO0023554A1; EP1865050A1; US7875583B2

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**EP 96870137 A 19961031**; AT 96870137 T 19961031; AU 5168698 A 19971030; BR 9713493 A 19971030; CA 2270717 A 19971030; DE 69625362 T 19961031; ES 96870137 T 19961031; HU P0202668 A 19971030; IL 12964397 A 19971030; JP 52082098 A 19971030; KR 19997003815 A 19990429; NO 992034 A 19990428; NZ 33544197 A 19971030; PL 33323097 A 19971030; SK 58599 A 19971030; TR 9901616 T 19971030; US 9720154 W 19971030