

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11)

EP 1 122 299 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
04.10.2001 Bulletin 2001/40

(51) Int Cl.7: **C11D 3/39, C11D 17/00**

(43) Date of publication A2:
08.08.2001 Bulletin 2001/32

(21) Application number: **00311581.3**

(22) Date of filing: **22.12.2000**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE TR**
Designated Extension States:
AL LT LV MK RO SI

- **Zambelli, Luca**
30174 Mestre Venice (IT)
- **Housmekerides, Chris E.**
30034 Mira Venice (IT)
- **Zamuner, Dora**
Chirignago Venice (IT)

(30) Priority: **28.12.1999 EP 99125979**

(71) Applicant: **Reckitt Benckiser N.V.**
2132 NZ Hoofddorp (NL)

(74) Representative: **Dickson, Elizabeth Anne**
Reckitt Benckiser plc,
Group Patents Department,
Dansom Lane
Hull HU8 7DS (GB)

(72) Inventors:

- **Fregonese, Daniele**
30030 Venice (IT)

(54) **Laundry composition**

(57) A laundry composition, preferably to be used in addition to a laundry detergent, comprises an acidic peroxidic liquid, and particles suspended in the liquid. The particles comprise a protective coating around a core which includes at least one active ingredient selected from a chelating agent, a dye-transfer inhibitor, an anti-

fading agent, an anti-bacterial agent, a fabric softener, a transition metal compound and an optical brightener. The particles are stable in the acidic peroxidic liquid but dissolve or disperse under alkaline washing conditions. Surprisingly incorporation of active ingredient(s) into particles appears to give better washing results than the dissolution of such active ingredients in such a liquid.

EP 1 122 299 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 00 31 1581

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	US 5 641 739 A (KOTT KEVIN LEE ET AL) 24 June 1997 (1997-06-24) * column 1, line 32 - line 42 * * column 19, line 63 - column 20, line 18 * * * claims 1-12 * ---	1-10	C11D3/39 C11D17/00
X	DE 299 03 534 U (HENKEL KGAA) 17 June 1999 (1999-06-17) * page 2, line 35 - line 36 * * page 9, line 31 - line 32 * * table 1 * * claims 1-9 * ---	1,6,8-10	
P,X	DE 198 55 346 A (HENKEL KGAA) 8 June 2000 (2000-06-08) * page 3, line 15 - line 40 * * table 1 * * claims 1-10 * ---	1,6,8-10	
X	WO 95 14077 A (WARWICK INT GROUP ;WITHENSHAW JOHN DAVID (GB); FRANCE MARK ALEXAND) 26 May 1995 (1995-05-26) * page 9, line 14 - line 24 * * page 10, line 16 - line 18 * * page 16, line 27 - page 17, line 8 * * claims 1-10 * ---	1-10	TECHNICAL FIELDS SEARCHED (Int.Cl.7) C11D
A	US 4 642 198 A (HUMPHREYS ROBERT W ET AL) 10 February 1987 (1987-02-10) * column 3, line 44 - line 54 * * column 5, line 20 - line 34 * ---	1-10	
A	EP 0 201 958 A (AKZO NV) 20 November 1986 (1986-11-20) * column 2, line 1 - column 3, line 38 * ---	1-10	
		-/--	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 10 August 2001	Examiner Richards, M
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

EPO FORM 1503/03-02 (P/04001)



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 00 31 1581

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	US 5 460 743 A (DELWEL FRANCOIS ET AL) 24 October 1995 (1995-10-24) * claims 1-10 *	1-10	
A	DE 40 40 654 A (HENKEL KGAA) 25 June 1992 (1992-06-25) * page 3, line 61 - line 63 * * page 4, line 51 - line 66 * * claims 1-8 *	1-10	
D,A	WO 87 07292 A (NOVO INDUSTRI AS) 3 December 1987 (1987-12-03) * claims 1-26 *	1-10	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
Place of search		Date of completion of the search	Examiner
THE HAGUE		10 August 2001	Richards, M
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

EPC FORM 1503 03 92 (P/4C/11)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 00 31 1581

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

10-08-2001

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5641739 A	24-06-1997	AT 197469 T	11-11-2000
		CA 2219987 A	07-11-1996
		DE 69610912 D	14-12-2000
		DE 69610912 T	07-06-2001
		DK 823940 T	27-11-2000
		EP 0823940 A	18-02-1998
		ES 2151656 T	01-01-2001
		JP 11504377 T	20-04-1999
		PT 823940 T	30-03-2001
		WO 9634938 A	07-11-1996
DE 29903534 U	17-06-1999	AU 2672600 A	21-09-2000
		WO 0052120 A	08-09-2000
DE 19855346 A	08-06-2000	AU 3034200 A	19-06-2000
		WO 0032729 A	08-06-2000
WO 9514077 A	26-05-1995	AU 1031695 A	06-06-1995
		DE 69419773 D	02-09-1999
		DE 69419773 T	18-11-1999
		EP 0729504 A	04-09-1996
		ES 2135035 T	16-10-1999
		US 6080710 A	27-06-2000
US 4642198 A	10-02-1987	AT 49775 T	15-02-1990
		AU 564007 B	30-07-1987
		AU 4177485 A	07-11-1985
		BR 8502065 A	31-12-1985
		DE 3575574 D	01-03-1990
		EP 0160342 A	06-11-1985
		ES 542778 D	01-01-1986
		ES 8603938 A	16-05-1986
		GR 851030 A	10-07-1985
		JP 1915320 C	23-03-1995
		JP 3060877 B	18-09-1991
		JP 60240800 A	29-11-1985
		NO 851712 A,B,	04-11-1985
		PT 80372 A,B	01-05-1985
		ZA 8503214 A	30-12-1986
EP 0201958 A	20-11-1986	AT 35425 T	15-07-1988
		CA 1284448 A	28-05-1991
		DE 3660350 D	04-08-1988
		DK 208286 A,B,	08-11-1986
		JP 61256000 A	13-11-1986

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 00 31 1581

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

10-08-2001

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5460743 A	24-10-1995	AU 2408195 A	29-11-1995
		WO 9530735 A	16-11-1995
		US 5589267 A	31-12-1996
DE 4040654 A	25-06-1992	AT 138974 T	15-06-1996
		DE 59107903 D	11-07-1996
		WO 9211349 A	09-07-1992
		EP 0563083 A	06-10-1993
		ES 2088125 T	01-08-1996
		JP 6503111 T	07-04-1994
WO 8707292 A	03-12-1987	AT 55779 T	15-09-1990
		AT 55778 T	15-09-1990
		DE 3764450 D	27-09-1990
		DE 3764460 D	27-09-1990
		DK 12188 A,B,	12-01-1988
		DK 61288 A	05-02-1988
		EP 0270608 A	15-06-1988
		EP 0277532 A	10-08-1988
		JP 63503390 T	08-12-1988
		US 4973417 A	27-11-1990