



Europäisches Patentamt  
European Patent Office  
Office européen des brevets



(11) **EP 1 240 893 A8**

(12) **CORRECTED EUROPEAN PATENT APPLICATION**

Note: Bibliography reflects the latest situation

(15) Correction information:  
**Corrected version no 1 (W1 A2)**  
**INID code(s) 30,74**

(51) Int Cl.7: **A61K 7/32**

(48) Corrigendum issued on:  
**02.01.2003 Bulletin 2003/01**

(43) Date of publication:  
**18.09.2002 Bulletin 2002/38**

(21) Application number: **02251682.7**

(22) Date of filing: **08.03.2002**

(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**

(30) Priority: **16.03.2001 GB 0106601**

(71) Applicants:  
• **UNILEVER PLC**  
**London EC4P 4BQ (GB)**  
Designated Contracting States:  
**GB IE CY**  
• **UNILEVER N.V.**  
**3013 AL Rotterdam (NL)**  
Designated Contracting States:  
**BE CH DE DK ES FI FR GR IT LI LU MC NL PT SE  
AT**

(72) Inventors:  
• **Abend, Sven Jorg Willi Max**  
**Bebington, Wirral, Merseyside CH63 3JW (GB)**  
• **Courtois, Jean-Philippe Andre Roger**  
**Bebington, Wirral, Merseyside CH63 3JW (GB)**  
• **Cropper, Martin Peter**  
**Bebington, Wirral, Merseyside CH63 3JW (GB)**  
• **Fletcher, Neil Robert**  
**Bebington, Wirral, Merseyside CH63 3JW (GB)**  
• **Grainger, Lynda**  
**Bebington, Wirral, Merseyside CH63 3JW (GB)**  
• **Murphy, Angela Mary**  
**Bebington, Wirral, Merseyside CH63 3JW (GB)**

(74) Representative: **Pearce, Timothy et al**  
**Unilever PLC,**  
**Patent Division,**  
**Colworth House**  
**Sharnbrook, Bedford, MK44 1LQ (GB)**

(54) **Antiperspirant formulations**

(57) Structured antiperspirant emulsion formulations for topical application to human skin in a cosmetic method for controlling sweat and body odour generation comprising an hydrophilic phase containing an aluminium and/or zirconium astringent salt dispersed in a structured continuous oil phase can suffer from problems of impaired sensory properties and impaired efficacy (sweat reduction).

Such problems are ameliorated or overcome in structured antiperspirant emulsions in which

- i) the hydrophilic phase comprises from 25 to 55% by weight of the emulsion;
- ii) the hydrophilic phase contains from 0 to not more than 15% polyhydric alcohol by weight of the emulsion;

iii) the emulsifier comprises an alkyl dimethicone copolyol;

iv) the weight ratio of the hydrophilic phase to the emulsifier is selected in the range of from at least 60:1

v) the structurant comprises an acylated sugar and

vi) the water-immiscible oil and the structurant are present in a weight ratio of from 1.5:1 to 8.5:1.

EP 1 240 893 A8