

Title (en)  
HAIR SPRAY COMPOSITIONS

Title (de)  
HAARSPRAYZUSAMMENSETZUNGEN

Title (fr)  
COMPOSITIONS DE LAQUES CAPILLAIRES

Publication  
**EP 0977542 A1 20000209 (EN)**

Application  
**EP 98918734 A 19980424**

Priority

- US 9808349 W 19980424
- US 84293897 A 19970425
- US 93936297 A 19970929

Abstract (en)

[origin: WO9848771A1] The present invention relates to hair styling compositions and in particular to hair spray compositions. These compositions comprise a silicone containing adhesive copolymer, and a solvent for said copolymer selected from the group consisting of water, ethanol, n-propanol, isopropanol, and mixtures thereof. The spray compositions, when dried, have a cohesive strength of greater than about 0.5 kgf/mm<sup><2></sup>, a total energy absorption per unit volume of greater than about 0.55 kgfmm/mm<sup><3></sup> and, preferably an impact strength of greater than about 7000 ergs. The hair spray embodiments of the present invention preferably provide improved removeability from hair as defined by a hair stiffness value of from 0 to about 3.5 (0 to 4 scale) and a hair flaking value of from 0 to about 3.5 (0 to 4 scale) as determined by the removeability methodology defined herein.

IPC 1-7

**A61K 7/06; C08G 77/44; C09D 183/10; C08L 83/10; C08F 290/06; C08F 290/14**

IPC 8 full level

**A61K 8/00 (2006.01); A61K 8/34 (2006.01); A61K 8/89 (2006.01); A61K 8/895 (2006.01); A61K 8/899 (2006.01); A61Q 5/00 (2006.01); A61Q 5/06 (2006.01); A61Q 7/00 (2006.01); C08F 30/08 (2006.01); C08F 290/04 (2006.01); C08F 290/06 (2006.01); C08F 290/14 (2006.01); C08F 293/00 (2006.01); C08G 77/42 (2006.01); C08G 77/442 (2006.01); C08L 83/10 (2006.01); C09D 183/10 (2006.01)**

CPC (source: EP)

**A61K 8/34 (2013.01); A61K 8/895 (2013.01); A61K 8/899 (2013.01); A61Q 5/06 (2013.01); C08F 290/046 (2013.01); C08F 290/068 (2013.01); C08F 293/00 (2013.01); C08G 77/442 (2013.01)**

Citation (search report)

See references of WO 9848771A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)

**WO 9848771 A1 19981105; AU 7160598 A 19981124; BR 9812296 A 20000718; CA 2288040 A1 19981105; CN 1259033 A 20000705; EP 0977542 A1 20000209; JP 2001507368 A 20010605**

DOCDB simple family (application)

**US 9808349 W 19980424; AU 7160598 A 19980424; BR 9812296 A 19980424; CA 2288040 A 19980424; CN 98805780 A 19980424; EP 98918734 A 19980424; JP 54719898 A 19980424**