

## Title (en)

POLYMER COMBINATION FROM AT LEAST TWO DIFFERENT N-VINYLPYRROLIDONE/N-VINYLCAPROLACTAM COPOLYMERS FOR COSMETIC HAIR SHINE PRODUCTS

## Title (de)

POLYMERKOMBINATION AUS MINDESTENS ZWEI VERSCHIEDENEN N-VINYLPYRROLIDON/N-VINYLCAPROLACTAM-COPOLYMEREN FÜR GLANZGEBENDE KOSMETISCHE HAARBEHANDLUNGSMITTEL

## Title (fr)

ASSOCIATION DE POLYMÈRES COMPRENANT AU MOINS DEUX COPOLYMÈRES N-VINYLPYRROLIDONE/N-VINYLCAPROLACTAME DIFFÉRENTS POUR PRODUITS COSMÉTIQUES DE TRAITEMENT CAPILLAIRE DESTINÉS À DONNER DE LA BRILLANCE

## Publication

**EP 2427171 A2 20120314 (DE)**

## Application

**EP 10713333 A 20100409**

## Priority

- EP 2010054679 W 20100409
- DE 102009020552 A 20090508

## Abstract (en)

[origin: WO2010127921A2] The invention relates to products for treating keratin fibers, especially human hair, said products containing, in a cosmetically acceptable carrier, (i) 1.0% by weight to 2.8% by weight, especially preferred from 1.5% by weight to 2.8% by weight, of at least one copolymer (a) which comprises at least one structural unit of formula (I) and at least one structural unit of formula (II) and at least one structural unit of formula (III), wherein R1 is a hydrogen atom or a methyl group, X1 is an oxygen atom or an NH group, and R2 and R3 independently represent a (C1 to C4) alkyl group, and (ii) 0.4% by weight to 1.4 % by weight, especially from 0.6% by weight to 1.3% by weight, of at least one copolymer (b) which comprises at least one structural unit of formula (I) and at least one structural unit of formula (II) and at least one structural unit of formula (IV), wherein R4 is a hydrogen atom or a methyl group, X2 is an oxygen atom or an NH group, and R5 and R6 independently represent a (C1 to C4) alkyl group. The products according to the invention are suitable for temporarily shaping hair and providing shine, especially as aerosol hairspray or aerosol hair foam.

## IPC 8 full level

**A61K 8/81** (2006.01); **A61K 8/04** (2006.01); **A61Q 5/06** (2006.01); **A61Q 5/12** (2006.01)

## CPC (source: EP US)

**A61K 8/046** (2013.01 - EP US); **A61K 8/8182** (2013.01 - EP US); **A61Q 5/06** (2013.01 - EP US); **A61Q 5/12** (2013.01 - EP US); **A61K 2800/594** (2013.01 - EP US)

## Citation (search report)

See references of WO 2010127921A2

## Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

## DOCDB simple family (publication)

**WO 2010127921 A2 20101111**; **WO 2010127921 A3 20120126**; DE 102009020552 A1 20101118; EP 2427171 A2 20120314; US 2012052020 A1 20120301

## DOCDB simple family (application)

**EP 2010054679 W 20100409**; DE 102009020552 A 20090508; EP 10713333 A 20100409; US 201113291434 A 20111108