

Title (en)  
DOUBLE-LAYER SURFACE-MODIFIED NANOPARTICULATE ZINC OXIDE, METHOD FOR THE PRODUCTION THEREOF, AND USE THEREOF

Title (de)  
ZWEISCHICHTIG OBERFLÄCHENMODIFIZIERTES NANOPARTIKULÄRES ZINKOXID, VERFAHREN ZU DESSEN HERSTELLUNG UND VERWENDUNG DESSELBEN

Title (fr)  
OXYDE DE ZINC NANOPARTICULAIRE A MODIFICATION DE SURFACE BILATERALE, PROCEDE POUR LE PRODUIRE ET L'UTILISER

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Application  
**EP 06806491 A 20061024**

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Abstract (en)  
[origin: WO2007048570A2] The invention relates to a double-layer surface-modified nanoparticulate zinc oxide, in which the first layer comprises one or several compounds of general formula A<SUP>1</SUP>-O-(CH<SUB>2</SUB>CH<SUB>2</SUB>-O)<SUB>n</SUB>-CH<SUB>2</SUB>-SUB>-X and/or one or several compounds of general formula (II), wherein A<SUP>1</SUP>, A<SUP>2</SUP>, and A<SUP>3</SUP> independently represent saturated or unsaturated hydrocarbon radicals with 1 to 30 carbon atoms, n represents a number from 3 to 30, and X represents a group that has affinity to the zinc oxide surface, while the second layer comprises at least one compound selected among the group encompassing polyether carboxylic acids, polyether alkyl ethers, dialkyl polyethylene glycol esters, dialkylene polyethylene glycol esters, dialkyl polyethylene glycol ethers, and dialkylene polyethylene glycol ethers, polyglycerin esters, and surfactants from the substance class of sulfosuccinates and amphopropionates. The invention further relates to a method for producing said zinc oxides and the use thereof in dispersions, especially for cosmetic and antimicrobial purposes and promoting wound healing.

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