

Title (en)
ZINC OXIDE NANOPARTICLES

Title (de)
ZINKOXID-NANOPARTIKEL

Title (fr)
NANOPARTICULES D'OXYDE DE ZINC

Publication
EP 1954631 A1 20080813 (DE)

Application
EP 06806561 A 20061026

Priority
• EP 2006010328 W 20061026
• DE 102005056622 A 20051125

Abstract (en)
[origin: DE102005056622A1] Modified zinc oxide nanoparticles comprise a particle size of 3-50 nm as determined by particle correlation spectroscopy (PCS) or transmission electron microscopy and are modified with silica by a process in which at least one precursor is placed in an organic solvent and grown by addition of at least one modifier, that is a precursor for silica, until the absorption edge in the UV/visible spectrum of the reaction solution reaches the desired value when the process is ended. Independent claims are also included for the following: (A) A dispersion comprising nanoparticles as above; (B) A method of producing the nanoparticles as above; and (C) UV-stabilized polymers as above.

IPC 8 full level
B01F 23/00 (2022.01); **C01G 9/02** (2006.01); **C08C 1/04** (2006.01); **C08K 3/22** (2006.01); **C09C 3/00** (2006.01); **C09C 3/12** (2006.01)

CPC (source: EP KR US)
B82B 3/00 (2013.01 - KR); **B82Y 30/00** (2013.01 - EP US); **C01G 9/02** (2013.01 - EP KR US); **C08K 3/22** (2013.01 - EP US); **C08K 9/02** (2013.01 - EP US); **C09C 1/043** (2013.01 - EP US); **B82Y 40/00** (2013.01 - KR); **C01P 2004/64** (2013.01 - EP US); **Y10T 428/256** (2015.01 - EP US); **Y10T 428/2993** (2015.01 - EP US)

Citation (search report)
See references of WO 2007059841A1

Cited by
CN104470992A

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
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