

Title (en)

METAL OXIDES COMPRISING A PERMANENT POSITIVE SURFACE CHARGE OVER A WIDE PH RANGE

Title (de)

METALLOXIDE MIT EINER IN EINEM WEITEN PH-BEREICH PERMANENTEN POSITIVEN OBERFLÄCHENLADUNG

Title (fr)

OXYDE METALLIQUE COMPRENANT UNE CHARGE DE SURFACE POSITIVE PERMANENTE POUR DES GRANDES VARIATIONS DE PH

Publication

**EP 1834215 A1 20070919 (DE)**

Application

**EP 05809196 A 20051124**

Priority

- EP 2005012587 W 20051124
- DE 102004057997 A 20041201

Abstract (en)

[origin: WO2006058657A1] The invention relates to metal oxide particles comprising a permanent positive surface charge over a pH range of between 0 and 10 and groups of general formula (I) -O<SUB>1+n</SUB>-SiR<SUP>1</SUP> <SUB>2-n</sub>

IPC 8 full level

**G03G 9/097** (2006.01); **C08K 9/06** (2006.01); **C09C 1/30** (2006.01)

CPC (source: EP KR US)

**C01B 13/145** (2013.01 - EP KR US); **C09C 1/3081** (2013.01 - EP KR US); **G03G 9/09716** (2013.01 - EP KR US); **C01P 2006/12** (2013.01 - EP KR US); **C01P 2006/22** (2013.01 - EP KR US)

Citation (search report)

See references of WO 2006058657A1

Designated contracting state (EPC)

BE DE FR GB

DOCDB simple family (publication)

**DE 102004057997 A1 20060608**; CN 101069133 A 20071107; EP 1834215 A1 20070919; JP 2008521980 A 20080626; KR 20070092251 A 20070912; US 2008194855 A1 20080814; WO 2006058657 A1 20060608

DOCDB simple family (application)

**DE 102004057997 A 20041201**; CN 200580041386 A 20051124; EP 05809196 A 20051124; EP 2005012587 W 20051124; JP 2007543743 A 20051124; KR 20077015107 A 20070629; US 72055105 A 20051124