Title (en)
METHOD FOR MANUFACTURING TRANSPARENT CONDUCTING OXIDES

Title (de)
VERFAHREN ZUR HERSTELLUNG VON TRANSPARENTEN LEITFÄHIGEN OXIDEN

Title (fr)
PROCÉDÉ DE PRODUCTION D'OXYDES CONDUCTEURS TRANSPARENTS

Publication
EP 2297381 A2 20110323 (DE)

Application
EP 09753841 A 20090525

Priority
• EP 2009056273 W 20090525
• EP 08157333 A 20080530
• EP 09753841 A 20090525

Abstract (en)
[origin: WO2009144186A2] The present invention relates to a method for producing transparent conductive oxides comprising the following steps in the sequence a-b-c: (a) Reacting at least one starting compound (A) containing at least one metal or semi-metal M and optionally a dopant (D) containing at least one doping element M', wherein at least one M' is not the same as M, in the presence of a block copolymer (B) and a solvent (C), forming a composite material (K), (b) optionally applying the composite material (K) onto a substrate (S) and (c) heating the composite material (K) to a temperature of at least 350°C, characterized in that the block copolymer (B) contains at least one alkylene oxide block (AO) and at least one isobutylene block (IB). The present invention also relates to transparent conductive oxides so obtained, use thereof in electronic components, as electrode materials and as material for antistatic applications. Finally, the present invention relates to electronic components containing the transparent conductive oxides.

IPC 8 full level
C23C 18/12 (2006.01)

CPC (source: EP US)
C23C 18/1216 (2013.01 - EP US); **C23C 18/1254** (2013.01 - EP US); Y10T 428/24355 (2015.01 - EP US); Y10T 428/24364 (2015.01 - EP US)

Citation (search report)
See references of WO 2009144186A2

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 TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
WO 2009144186 A2 20091203; **WO 2009144186 A3 20100318**; EP 2297381 A2 20110323; US 2011073814 A1 20110331; US 8834748 B2 20140916

DOCDB simple family (application)
EP 2009056273 W 20090525; EP 09753841 A 20090525; US 99504309 A 20090525