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(71) Applicant (for all designated States except US): **BAR-ILAN UNIVERSITY** [IL/IL]; 52900 Ramat Gan (IL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ZABAN, Arie** [IL/IL]; 23 Adulam Street, 60850 Shoham (IL). **GRINIS, Larissa** [IL/IL]; 16/28 Hatzivoni Street, 75421 Rishon Lezion (IL). **OFIR, Asher** [IL/IL]; 119 Hayarden Street, 49950 Moshav Nehalim (IL).

(74) Agent: **BEN-AMI, Paulina**; Ben-Ami & Associates, P.O. Box 94, 76100 Rehovot (IL).

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(54) Title: METHOD FOR PREPARATION OF STABLE METAL OXIDE NANOPARTICLES SUSPENSIONS

(57) Abstract: The invention relates to a method for the preparation of stable suspensions of metal oxide nanoparticles, in which uncharged metal oxide nanoparticles are first treated with a non-ionic surfactant in a polar organic solvent under certain conditions, and the suspension obtained is then treated with a charging solution. The suspensions of the invention can be used for preparation of high quality metal oxide films by electrophoresis deposition (EPD).



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL06/00898

A. CLASSIFICATION OF SUBJECT MATTER
 IPC: **C23C 16/00**(2006.01);**C25C 1/12**(2006.01);**B01D 57/02**(2006.01);**B01D 53/04**(2006.01)

USPC: 427/248.1;427/255.12;204/548;204/551
 According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 U.S. : 427/248.1;427/255.12;204/548;204/551

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

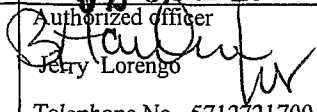
C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,410,086 B1 (Brandon et al.), 25 June 2002 (25.06.2002), Whole document	1-12
Y	"Fabrication of metal oxide-diamond composite films by electrophoretic deposition and anodic dissolution" (Kamada et al.), 19 May 2003 (19.05.2003), J. Mater. Res., Vol. 18, No. 12, Dec 2003, Whole document	1-12
A	US 6,258,237 B1 (Gal-Or et al.), 10 Jul. 2001 (10.07.2001), Whole document	1-12

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

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Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Authorized officer  Jerry Lorengo Telephone No. 5712721700
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