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(54) Title: METAL NANOWIRES PREPARED BY THE POLYOL METHOD USING ZERO VALENT METAL CARBONYL AND PHOSPHINE COMPOUNDS

(57) Abstract: Nanowire preparation methods, compositions, and articles are disclosed. Such methods, which reduce metal ions to metal nanowires in the presence of zero-valent metal atoms, are capable of producing long, narrow, nanowires useful for electronics and optical applications.



INTERNATIONAL SEARCH REPORT

International application No
PCT/US2012/034729

A. CLASSIFICATION OF SUBJECT MATTER
INV. C23C18/12 B22F9/24 B22F1/00
ADD.

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)
C23C B22F

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)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CHANG CHEN ET AL: "Study on the synthesis of silver nanowires with adjustable diameters through the polyol process", NANOTECHNOLOGY, IOP, BRISTOL, GB, vol. 17, no. 15, 14 August 2006 (2006-08-14), pages 3933-3938, XP020103970, ISSN: 0957-4484, DOI: 10.1088/0957-4484/17/15/054 the whole document	1-10
X	US 2006/159603 A1 (VANHEUSDEN KAREL [US] ET AL) 20 July 2006 (2006-07-20) the whole document	1-10
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Further documents are listed in the continuation of Box C.



See patent family annex.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KYLEE E. KORTE ET AL: "Rapid synthesis of silver nanowires through a CuCl- or CuCl₂-mediated polyol process", JOURNAL OF MATERIALS CHEMISTRY, vol. 18, no. 4, 1 January 2008 (2008-01-01), page 437, XP055010797, ISSN: 0959-9428, DOI: 10.1039/b714072j page 70 -----	1-10

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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US 2006159603 A1	20-07-2006	US 2006159603 A1	20-07-2006
		US 2006189113 A1	24-08-2006
		US 2007034052 A1	15-02-2007
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