(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
15 December 2005 (15.12.2005)

(10) International Publication Number
WO 2005/119359 A3

(51) International Patent Classification:
B05D 5/00 (2006.01)
B05D 7/14 (2006.01)
B05D 7/06 (2006.01)
B05D 1/36 (2006.01)

(21) International Application Number:
PCT/US2005/018656

(22) International Filing Date:
27 May 2005 (27.05.2005)

(25) Filing Language:
English

(26) Publication Language:
English

(30) Priority Data:
60/574,907 27 May 2004 (27.05.2004) US

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(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, SD, TD, TG).

Published:
— with international search report
before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report: 23 November 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ENHANCED SCRATCH RESISTANCE OF ARTICLES CONTAINING A COMBINATION OF NANO-CRYSTALLINE METAL OXIDE PARTICLES, POLYMERIC DISPERSING AGENTS, AND SURFACE ACTIVE MATERIALS

(57) Abstract: A film forming composition comprises a resin, a plurality of nanoparticles, a surface active material and a polymeric dispersant. The film forming composition is substantially transparent and is adapted to be combined with a substrate to enhance abrasion resistance. The film forming composition may be used with wood objects including furniture, doors, floors, for architectural surfaces, for automotive articles and finishes, for metal coatings and coil coatings, for plastic articles, and for wipe-on protective treatments.
# INTERNATIONAL SEARCH REPORT

**A. CLASSIFICATION OF SUBJECT MATTER**

<table>
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<th>B05D 5/00(2006.01),7/06(2006.01),7/14(2006.01),1/36(2006.01)</th>
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**USPC:** 427/402,407.1,408,409,410,419.1,419.2,419.3,419.5  
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)


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)

| EAST, Google Scholar |

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

<table>
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<tr>
<th>Category</th>
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[ ] Further documents are listed in the continuation of Box C.  
[ ] See patent family annex.

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Date of the actual completion of the international search: 23 July 2006 (23.07.2006)

| Date of mailing of the international search report: | 18 SEP 2006 |

Name and mailing address of the ISA/US

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Form PCT/ISA/210 (second sheet) (April 2005)