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(54) Title: AN UNDERCOATING LAYER FORMULATION FOR NON-PLATABLE GRADE SUBSTRATE FOR ELECTROLESS METAL PLATING

(57) Abstract: Described herein is a coating formulation for non-platable grade substrate prior to undergoing an electroless metal plating process. Said coating formulation comprises of a mixture of multifunctional based monomer and diphenylmetane- 4, 4-diisocyanate (MDI), said multifunctional based monomer has allyl group or alkyl group or vinyl group or ether group or ester group or methacrylate group or acrylate group or phthalate group or combination thereof but does not include multifunctional monomer having hydroxyl group. According to the present invention, the ratio of said multifunctional based monomer is less than or equal (<) to diphenylmetane-4, 4-diisocyanate (MDI). Said coating formulation is mixed in a vacuum chamber for about 30 minutes before being applied to the surface of a non-platable grade substrate.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

C09D 125/00(2006.01)i, C08L 75/08(2006.01)i, C23C 18/18(2006.01)i

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)
IPC 8: C09D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean Utility models and applications for Utility models since 1975
Japanese Utility models and applications for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKIPASS(KIPO internal), USPAT, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2006/0247326 A1 (HENKE et al.) NOV., 2, 2006 see paragraphs [0017], [0041]-[0045]	1,2, 10
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A	US 2003/0111159 A1 (HASHIMOTO et al.) JUN., 19, 2003 see whole document	1-10
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A	WO 2006/029151 A1 (BUSHENDORF et al.) MAR., 16, 2006 see whole document	1-10

☐ 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	Date of mailing of the international search report
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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