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Declarations under Rule 4.17:

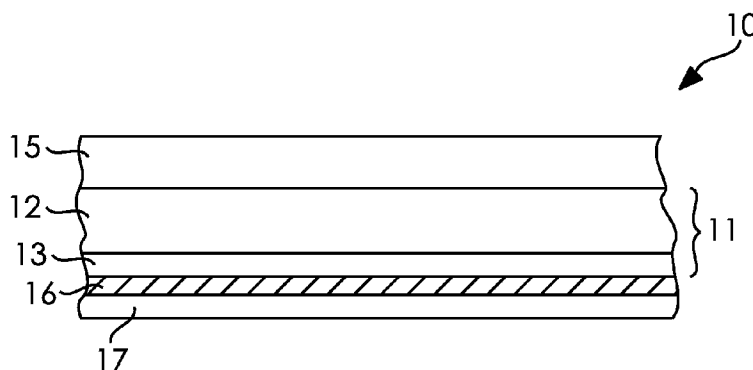
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

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[Continued on next page]

(54) Title: WEATHER RESISTANT EXTERIOR FILM COMPOSITE

**Fig. 1**

(57) Abstract: This invention relates to film composites with a single coating of hard coat material which have a significant improved adhesion together with improved weather resistance while also increasing resistance to abrasion and cracking. In one embodiment, this film composite is comprised of a transparent base sheet having on one side thereof a weather resistant hard coat comprised of: at least one multifunctional acrylate monomer or oligomer; a dual-curable resin comprising an aliphatic urethane acrylate resin having isocyanate functional groups and an aliphatic urethane acrylate having hydroxyl functional groups; an ultraviolet (UV) stabilizer; and a photoinitiator.





— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

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27 December 2012

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/031520**A. CLASSIFICATION OF SUBJECT MATTER***C08J 7/04(2006.01)i, C08J 5/18(2006.01)i, B32B 27/18(2006.01)i, C08L 33/14(2006.01)i, C09D 133/14(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)

C08J 7/04; B05D 5/00; C09D 133/10; B32B 27/40; C09D 133/08; B32B 27/30; B32B 27/36; C03C 17/42

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

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: urethane, acrylate, isocyanate, hydroxyl

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2009-087575 A2 (CPFILMS INC.) 16 July 2009 See pages 2, 4, 5, 7, 9, 10, 12 and 15.	1-20
Y	KR 10-0759101 B1 (SPOLYTECH INC.) 19 September 2007 See claims 1 and 2.	1-20
A	US 2008-0166569 A1 (S.M. GASWORTH et al.) 10 July 2008 See the abstract and claims.	1-20
A	US 2006-0134400 A1 (K. TAKADA) 22 June 2006 See the abstract and claims.	1-20

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

* Special categories of cited documents:

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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