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- as to the applicant's entitlement to claim the priority of  
the earlier application (Rule 4.17(iii))

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(54) Title: POLYOLEFIN ADHESIVE COMPOSITIONS AND METHOD OF MAKING THEREOF

(57) **Abstract:** The packaging industry desires adhesive compositions having a fast set time, such as those setting in less than five seconds from a molten state at conventional packaging operating temperatures to a solid or quasi solid having favorable Dot T-Peel, set time, and/or fiber tear adhesion properties. Polymer based adhesives performing within this window are a favorable alternative to conventional formulated adhesives. The provided adhesive compositions exhibit a favorable balance of properties such as high adhesive strength, wide temperature operating window, and fast set time. Provided are adhesive compositions composed of a polyolefin composition comprising at least about 50 mol% polypropylene, at least one wax and at least one wax modifier.



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## INTERNATIONAL SEARCH REPORT

International application No.  
**PCT/US2010/031354****A. CLASSIFICATION OF SUBJECT MATTER***C09J 123/10(2006.01)i, C09J 123/00(2006.01)i, C09J 11/08(2006.01)i, C09J 11/06(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)

C09J 123/10; C08L 23/12; C09D 151/06; C08F 8/00; C09J 123/20; C09J 123/00; C09J 4/00

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) &amp; Keywords: hot melt, wax, polyolefin, propylene

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                                     | Relevant to claim No.             |
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| A         | KR 10-0400876 B1 (SEONG IL CHEMICAL CO., LTD.) 08 October 2003<br>See abstract, page 1-3, claims 1-7                   | 1-21                              |
| A         | KR 10-2000-0016706 A (MINNESOTA MINING AND MANUFACTURING CO.) 25 March 2000<br>See abstract, claims 1-14               | 1-21                              |
| A         | KR 10-0386372 B1 (MITSUI CHEMICALS, INC.) 02 June 2003<br>See abstract, pages 1-3, claims 1-11                         | 1-21                              |

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

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