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ning of each regular issue of the PCT Gazette.

(54) Title: FLUORINATED TRANSITION METAL CATALYSTS AND FORMATION THEREOF

(57) Abstract: Supported catalyst systems and methods of forming polymers are generally described herein. The polymerization processes generally include contacting an inorganic support composition with a fluorinating agent to form a fluorinated support, wherein the fluorinating agent includes an organofluorine compound having the formula $R_n^4AlF_{3-n}$ and wherein each R is independently selected from alkyls, aryls and combinations thereof and n is 1 or 2, contacting the fluorinated support with a transition metal compound to form a supported catalyst system and contacting an olefin monomer with the supported catalyst composition to form a polyolefin.



WO 2007/127418 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 07/10320

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - C08F 10/00 (2007.01)

USPC - 502/152; 526/160

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)
502/152; 526/160

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC - 526/127, 172, 351, 943 (text search, see terms below)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PubWEST(USPT,PGPB,EPAB,JPAB); DialogPRO(Engineering); Google Scholar
Search Terms: transition metal, silica, fluorine, aluminum, metallocene, indenyl, bimodal, triisobutyl aluminum, diethylaluminum fluoride

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X -- Y	US 2005/0054790 A1 (MAWSON et al.) 10 March 2005 (10.03.2005), entire document especially para [0017]-[0019], [0081], [0150], [0151], [0155], [0009], [0149], [0205]-[0209], [0217], [0219], [0224], [0295], [0301], [0303], [0308], [0313], [0318], [0324], [0339], [0352], [0353], [0371], [0383], and [0379]	1-16 and 18-22 ----- 17
Y	US 2005/0266982 A1 (HOLTCAMP) 01 December 2005 (01.12.2005), para [0276]	17
A	US 2006/0089470 A1 (LOPEZ et al.) 27 April 2006 (27.04.2006), para [0037]	1-22

Further documents are listed in the continuation of Box C.

* Special categories of cited documents:

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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

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