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- (74) Agent: **SMITH, Michael, H.**; Hall, Estill, Hardwick, Gable, Golden & Nelson, P.C., 100 N. Broadway Ave., Suite 2900, Oklahoma City, OK 73102 (US).
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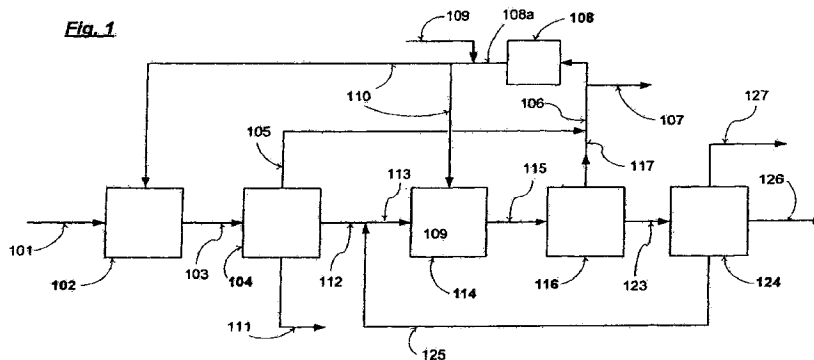
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(54) Title: BIORENEWABLE NAPHTHA





(57) Abstract: The present invention generally relates to a method for producing a naphtha product from a renewable feedstock. The method includes hydrotreating the renewable feedstock to produce a hydrotreating unit heavy fraction that includes n-paraffins, and hydrocracking the hydrotreating unit heavy fraction to produce a hydrocracking unit product that includes the naphtha product. The method also includes separating the naphtha fraction and optionally recycling the hydrocracking unit heavy fraction through the hydrocracking unit. The present invention also relates to a biorenewable naphtha product suitable for use as feed stock for steam crackers and catalytic reforming units, and for use as fuel, or fuel blend stock.

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# INTERNATIONAL SEARCH REPORT

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<b>A. CLASSIFICATION OF SUBJECT MATTER</b>				
<i>C10G 3/00(2006.01)i, C10G 65/12(2006.01)i</i>				
According to International Patent Classification (IPC) or to both national classification and IPC				
<b>B. FIELDS SEARCHED</b>				
Minimum documentation searched (classification system followed by classification symbols) C10G, C10L, C07C				
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) eKOMPASS(KIPO internal), Keywords: (triglyceride* <or> fatty*) <and> (naphtha* <or> paraffin*) <and> hydro*				
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>				
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	WO 2007-063874 A1 (NIPPON OIL CORPORATION et al.) 07 June 2007 See paragraph [0082]-[0085], [0096]-[0108], claims, and figure 2	1-21		
Y	US 2004-0230085 A1 (JAKKULA et al.) 18 November 2004 See figures and paragraph [0035]-[0063]	2		
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A	JP 59-108088 A (HONDA MOTOR CO LTD et al.) 22 June 1984 See abstract and tables	1-21		
A	US 2007-0260102 A1 (DUARTE SANTIAGO et al.) 08 November 2007 See abstract and claims	1-21		
A	WO 2008-054442 A1 (CONOCOPHILLIPS COMPANY et al.) 08 May 2008 See abstract and claims	1-21		
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <span style="margin-left: 100px;"><input checked="" type="checkbox"/> See patent family annex.</span>				
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; vertical-align: top;">                     * Special categories of cited documents:                      "A" document defining the general state of the art which is not considered to be of particular relevance                      "E" earlier application or patent but published on or after the international filing date                      "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)                      "O" document referring to an oral disclosure, use, exhibition or other means                      "P" document published prior to the international filing date but later than the priority date claimed                 </td> <td style="width: 50%; border: none; vertical-align: top;">                     "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention                      "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone                      "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                      "&amp;" document member of the same patent family                 </td> </tr> </table>			* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "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
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Date of the actual completion of the international search <p style="text-align: center;">12 JANUARY 2010 (12.01.2010)</p>		Date of mailing of the international search report <p style="text-align: center;"><b>12 JANUARY 2010 (12.01.2010)</b></p>		
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Information on patent family members

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