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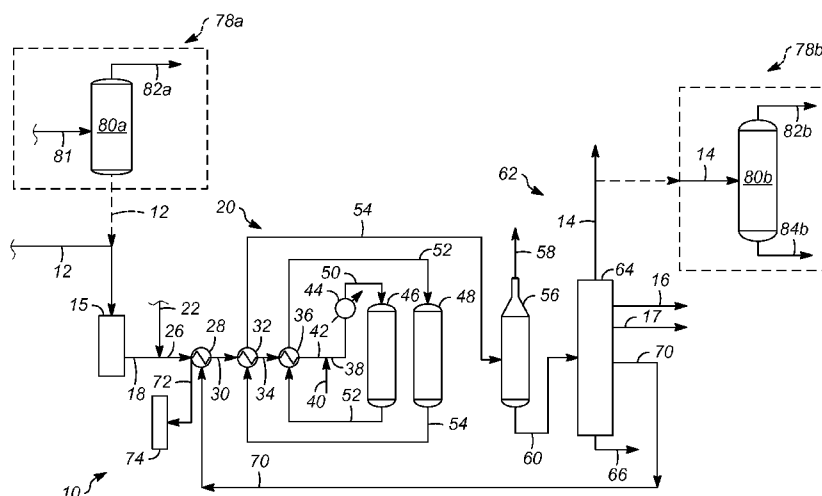
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(54) **Title:** METHODS AND SYSTEMS FOR PRODUCING GASOLINE



(57) **Abstract:** Methods and systems for producing gasoline are disclosed. In one exemplary embodiment, a method for producing gasoline includes the steps of isomerizing a first stream comprising normal C₆ hydrocarbons to produce a second stream comprising first and second branched C₆ hydrocarbons and deisohexanizing the second stream to produce a third stream comprising the first and second branched C₆ hydrocarbons wherein the first branched hydrocarbons and the second branched hydrocarbons are present in a first proportion, and a fourth stream comprising the first second branched hydrocarbons wherein the first branched and the second branched hydrocarbons are present in a second proportion. The first proportion has a relative percentage of first branched hydrocarbons that is greater than a relative percentage of first branched hydrocarbons in the second proportion.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2014/047362**A. CLASSIFICATION OF SUBJECT MATTER****C10G 2/00(2006.01)i, C10L 1/00(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)

C10G 2/00; C07C 5/22; C07C 5/13; C07C 7/13; C07C 5/27; B01J 8/00; C10L 1/00

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) & keywords: gasoline, octane rating, isomerization, deisohexanizer, dimethyl butane, methyl pentane, depentanizer, hydrocarbon

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2013-0096356 A1 (BHARUKA, L. V. et al.) 18 April 2013 See abstract; paragraphs [0012]-[0017]; claims 1-6, 12, 13, 19; figure 1.	1-10
Y	WO 2006-099254 A1 (UOP LLC) 21 September 2006 See abstract; paragraphs [0042], [0043], [0094]; claims 1, 7, 10; figure 1.	1-10
A	US 3755144 A (ASSELIN, G. F.) 28 August 1973 See abstract; column 2, line 42-column 3, line 35; column 8, lines 6-45; claims 1, 5; figure.	1-10
A	US 2006-0205990 A1 (RICE, L. H.) 14 September 2006 See abstract; paragraphs [0033]-[0043], [0046]; claims 1, 9, 11; figures 1, 2, 4.	1-10
A	US 5146037 A (ZARCHY, A. S. et al.) 8 September 1992 See abstract; column 4, line 10-column 5, line 12; column 6, lines 18-56; claims 1-3, 5, 7, 15, 20; figure 1.	1-10



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

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"O" document referring to an oral disclosure, use, exhibition or other means

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"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

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"&" document member of the same patent family

Date of the actual completion of the international search

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Date of mailing of the international search report

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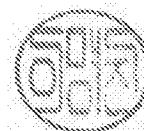
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2014/047362

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