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(54) Title: METHOD FOR BIO-OXIDATIVE DESULFURIZATION OF LIQUID HYDROCARBON FUELS AND PRODUCT THEREOF

(57) Abstract: Disclosed herein is a method for producing ultra-low-sulfur content hydrocarbon fuel and product thereof. The method comprises selective biocatalytic oxidation of sulfur containing compounds present in the fuels employing enzyme lipase as biocatalyst in presence of controlled and incremental amount of hydrogen peroxide and carboxylic acid without using water or any co-factor for the reactivity of said enzymes.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC: **A61L 9/01**(2006.01)

USPC: 435/266

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)

U.S. : 435/266

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)

EAST-USPTO Internal Patent Database

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,876,990 (REDDY et al) 02 March 1999 (02.03.1999), Example 9	1, 2, 4-9, 10, 12, 13
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Y		6, 11
Y	US 6,398,707 (WU et al.) 04 June 2002 (04.06.2002) Abstract	3
A	US 5980733 (COLLINS et al) 09 November 1999 (09.11.1999)	1-13

Further documents are listed in the continuation of Box C.

See patent family annex.

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