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(54) Title: METHOD FOR PRODUCING LIPID

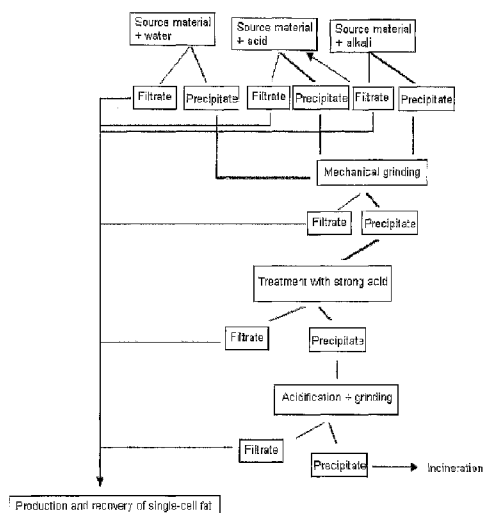


Fig. 1

(57) Abstract: The invention relates to a method for forming a lipid or a lipid mixture from an organic source material comprising cellulose, hemicellulose, starch, non-starch polysaccharide, any mixture thereof or degradation products thereof. According to the method, the source material is treated one or more times with water, an aqueous solution of acid or alkali, and the precipitate and the filtrate are separated. The precipitate obtained from the treatments mentioned above can be subjected to mechanical or thermo-mechanical grinding, or the precipitate can be treated with a strong acid, or the precipitate can be acidified and ground mechanically or thermo-mechanically. After the treatments, the precipitate and the filtrate are separated. A lipid-producing microorganism is contacted with the source material or the obtained filtrate(s) in a culture medium, whereby the microorganism cells begin to produce lipid, and the lipids are recovered.



WO 2009/063138 A3



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INTERNATIONAL SEARCH REPORT

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
C12P

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 practical, search terms used)

EPO-Internal, BIOSIS, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DAI CHUAN-CHAO ET AL: "Biodiesel generation from oleaginous yeast Rhodotorula glutinis with xylose assimilating capacity" AFRICAN JOURNAL OF BIOTECHNOLOGY, vol. 6, no. 18, September 2007 (2007-09), pages 2130-2134, XP002532682 ISSN: 1684-5315 cited in the application abstract page 2130, column 2, line 2 - page 2132, column 2, last paragraph page 2133, column 1, last paragraph - page 2134, column 1, paragraph 4	1-7, 10, 15-18
Y	----- -/--	11-13

Further documents are listed in the continuation of Box C.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>ANGERBAUER C ET AL: "Conversion of sewage sludge into lipids by <i>Lipomyces starkeyi</i> for biodiesel production" BIORESOURCE TECHNOLOGY, vol. 99, no. 8, 24 August 2007 (2007-08-24), pages 3051-3056, XP002532683 ISSN: 0960-8524 cited in the application</p>	1,2,4,6, 8-10, 15-19
Y	<p>abstract page 3051, column 2, line 8 - page 3053, column 1, paragraph 2.10 page 3054, column 2, paragraph 3.3 - page 3055, column 2, paragraph 4</p>	12
X	<p>FALL R ET AL: "BIO CONVERSION OF XYLAN TO TRI GLYCERIDES BY OIL RICH YEASTS" APPLIED AND ENVIRONMENTAL MICROBIOLOGY, vol. 47, no. 5, 1984, pages 1130-1134, XP002532684 ISSN: 0099-2240 cited in the application</p>	1,2,4, 10,14, 17,18
X	<p>abstract page 1130, column 1, paragraph 2 - page 1133, column 1, last paragraph; tables 1-4</p>	
X	<p>JACOB Z ET AL: "STUDIES ON PHYSICO-CHEMICAL CHARACTERISTICS AND FATTY ACID COMPOSITION OF LIPIDS PRODUCED BY A STRAIN OF RHODOTORULA-GRACILIS CFR-1" JOURNAL OF THE AMERICAN OIL CHEMISTS' SOCIETY, vol. 67, no. 10, 1990, pages 642-645, XP002532685 ISSN: 0003-021X the whole document</p>	1-5
X	<p>US 4 368 056 A (PIERCE SAMMY M [US] ET AL) 11 January 1983 (1983-01-11) cited in the application column 2, line 14 - line 36 column 4, line 16 - column 7, line 25</p>	1-4,8, 10,14, 16-18
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A	<p>abstract column 2, line 56 - column 5, line 3; figure 1 column 9, line 45 - line 62 column 23, line 40 - column 24, line 22; claims 1-8</p>	1-4,6
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	WO 01/32715 A (WASTE ENERGY INTEGRATED SYSTEMS [US]; LOMBARD CHARLES K [US]) 10 May 2001 (2001-05-10) page 6 page 11 - page 17 -----	11,12 1,2,4,6, 8-10

INTERNATIONAL SEARCH REPORT

Information on patent family members

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