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(54) **METHOD FOR PRODUCING LIPIDS BY LIBERATION FROM BIOMASS**

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CPC . ***A23D 9/00*** (2013.01); ***A23L 1/296*** (2013.01); ***A23L 1/3006*** (2013.01); ***A23L 1/3008*** (2013.01); ***A61K 31/202*** (2013.01); ***C11B 1/025*** (2013.01); ***C11B 3/001*** (2013.01); ***C11B 5/0021*** (2013.01); ***C12N 1/06*** (2013.01); ***C12N 1/066*** (2013.01); ***C12P 7/6472*** (2013.01); *A23V 2002/00* (2013.01)

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See application file for complete search history.

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(57) **ABSTRACT**

Disclosed are methods of preparing high-quality polyunsaturated fatty acid-containing lipids from a lipid-containing material that include enzymatic treatment of components of the material and/or pressure disruption of the material. Lipid-containing materials include biomass, such as microorganisms. The invention further includes products containing the lipid compositions, such as dietary supplements, food products, pharmaceutical formulations, humanized animal milk, and infant formula.

40 Claims, No Drawings