

Title (en)

METHOD FOR PRODUCING OIL FROM A MICROALGAE PRODUCT

Title (de)

VERFAHREN ZUR HERSTELLUNG VON ÖL AUS EINEM MIKROALGENERZEUGNIS

Title (fr)

PROCÉDÉ DE PRODUCTION D'HUILE À PARTIR D'UN PRODUIT DE MICRO-ALGUES

Publication

**EP 4203693 A1 20230705 (DE)**

Application

**EP 21766652 A 20210826**

Priority

- LU 102019 A 20200826
- EP 2021073641 W 20210826

Abstract (en)

[origin: WO2022043453A1] The invention relates to a method for producing oil, more particularly edible oil, having a high content of unsaturated fatty acids, from a product of microalgae. According to the invention, the microalgae product is treated, an intermediate product thus being formed, and the intermediate product is subjected to a material separation process for removing impurities, in which material separation process the triglyceride is used as a carrier for the impurities. A microalgae oil and/or a lipid extract is advantageously used as the microalgae product. The microalgae product is preferably obtained from microalgae, more particularly photoautotrophic and/or mixotrophic microalgae. In one embodiment of the invention, the microalgae product is treated by means of transesterification in order to form the intermediate product, wherein the microalgae product is preferably transformed into an ethyl ester. In one embodiment of the invention, an organic phase is separated from an inorganic phase of the intermediate product and the organic phase of the intermediate product is subjected to a material separation process for removing impurities, in which material separation process the triglyceride is used.

IPC 8 full level

**A23D 9/04** (2006.01); **C11C 1/00** (2006.01); **C11C 1/08** (2006.01); **C11C 1/10** (2006.01); **C11C 3/00** (2006.01); **C11C 3/08** (2006.01)

CPC (source: EP US)

**A23D 9/04** (2013.01 - EP US); **C11C 1/005** (2013.01 - EP US); **C11C 1/08** (2013.01 - EP); **C11C 1/10** (2013.01 - EP US); **C11C 3/003** (2013.01 - EP); **C11C 3/04** (2013.01 - US); **C11C 3/08** (2013.01 - EP)

Citation (search report)

See references of WO 2022043453A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**WO 2022043453 A1 20220303**; CN 115956114 A 20230411; EP 4203693 A1 20230705; LU 102019 B1 20220228; US 2023357665 A1 20231109

DOCDB simple family (application)

**EP 2021073641 W 20210826**; CN 202180050384 A 20210826; EP 21766652 A 20210826; LU 102019 A 20200826; US 202118022847 A 20210826