

Title (en)
Process for degumming.

Title (de)
Entschleimungsverfahren.

Title (fr)
Procédé de démulcination.

Publication
EP 0473985 B1 19941207 (DE)

Application
EP 91113617 A 19910814

Priority
HU 529290 A 19900823

Abstract (en)
[origin: EP0473985A2] Unwanted substances such as gums and phosphatides also get into the oil in the production of crude vegetable oils. Many of these substances can be hydrated and can be removed by aqueous degumming, that is to say by a treatment with water or steam, swelling or hydration with subsequent separation, normally by centrifugation. The removal of the remaining non-hydratable substances requires special and very elaborate methods. Reducing the content of gums which can no longer be hydrated with water and simultaneously reducing the wax content of vegetable oils is considerably simplified and improved by the following treatment steps which are to be carried out consecutively. <??>First a dilute acid or an anhydride is mixed carefully with the oil at elevated temperature and the mixture is stirred for a contact time lasting several minutes. Then a dilute basic solution is added and this mixture is likewise stirred slowly for a reaction time lasting, for example, two hours. This is followed by very rapid heating, and the substances which have separated out, and the water are separated from the oil and, if required, the oil is washed with water.

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C11B 3/00

IPC 8 full level
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CPC (source: EP US)
C11B 3/04 (2013.01 - EP US); **C11B 3/06** (2013.01 - EP US)

Cited by
DE102008048009A1; US6376689B1; EP0583648A2; WO2017212076A1; WO9421762A1

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EP 0473985 A2 19920311; EP 0473985 A3 19920603; EP 0473985 B1 19941207; CA 2049720 A1 19920224; CA 2049720 C 20000523; DE 59103777 D1 19950119; DK 0473985 T3 19950501; ES 2064834 T3 19950201; HU 208037 B 19930728; HU 905292 D0 19910228; HU T59955 A 19920728; PL 291494 A1 19920824; US 5239096 A 19930824; YU 143291 A 19940120; YU 47451 B 19950327

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