

Title (en)

METHOD FOR REFINING OF SOAPSTOCK BY ACIDULATION AND SOLVENT EXTRACTION

Title (de)

VERFAHREN ZUR RAFFINATION VON SEIFENGRUNDSTOFF DURCH ANSÄUERUNG UND LÖSUNGSMITTELEXTRAKTION

Title (fr)

PROCÉDÉ D'AFFINAGE DE PÂTE DE NEUTRALISATION PAR ACIDULATION ET EXTRACTION DE SOLVANT

Publication

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Application

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Priority

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Abstract (en)

The invention refers to the vegetable oil processing and energy sector, in particular the obtaining of raw material for the production of biodiesel from the oil refining process waste, called soapstock (SS), that is formed after the washing of the crude oil with an aqueous alkali solution. The invention is to be used for the industrial production of advanced biodiesel from the SS, which is generally considered a waste to be deposited and which cannot be used for the production of food. A high-yield high-quality acid oil, that can be used to produce modern biodiesel, is obtained via the developed two-stage process that includes the acidulation of the SS to pH 2-3 with subsequent high-temperature treatment in an ultrasound environment and the extraction of raw materials for the synthesis of advanced biodiesel from the resulting mixture using an ultrasound environment without prior separation of the aqueous phase.

IPC 8 full level

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