

Title (en)

METHODS AND APPARATUS FOR PRODUCING ALKYL ESTERS FROM LIPID FEED STOCKS AND SYSTEMS INCLUDING SAME

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON ALKYLESTERN AUS FETTHALTIGEN ROHSTOFFMATERIALIEN UND SYSTEME DAMIT

Title (fr)

PROCÉDÉS ET APPAREIL PERMETTANT DE PRODUIRE DES ESTERS D'ALKYLES À PARTIR DE MATÉRIAUX DE DÉPART LIPIDIQUES ET SYSTÈMES LES UTILISANT

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Abstract (en)

[origin: WO2008019325A2] The present invention relates to methods and apparatus for producing alkyl esters from lipid feed stocks, such as plant oils and/or animal fats, and systems including the same. In an embodiment, the invention includes a process for producing alkyl esters including mixing a lipid feed stock with an alcohol to form a reaction mixture; and contacting the reaction mixture with a catalyst under supercritical conditions for the alcohol, the catalyst comprising an unmodified metal oxide selected from the group consisting of alumina, titania, zirconia, and hafnia, and removing residual free fatty acids from the reaction mixture. Other embodiments are included herein.

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