

Title (en)  
SYSTEMS AND METHODS FOR REFINING ALKYL ESTER COMPOSITIONS

Title (de)  
SYSTEME UND VERFAHREN ZUR REINIGUNG VON ALKYLESTERZUSAMMENSETZUNGEN

Title (fr)  
SYSTÈMES ET PROCÉDÉS POUR RAFFINER DES COMPOSITIONS D'ESTER ALKYLIQUE

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Application  
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Abstract (en)  
[origin: WO2010144597A1] The present invention relates to systems and methods for producing and/or refining alkyl ester compositions. In an embodiment the invention includes a method of producing a refined fatty acid alkyl ester composition. The method can include contacting a fatty acid feedstock and an alcohol with a first metal oxide catalyst at a temperature of greater than 200 degrees Celsius and a pressure of greater than 500 psi to form an unrefined fatty acid alkyl ester composition. The method can further include combining the unrefined fatty acid alkyl ester composition with dimethyl carbonate to form a refining mixture. The method can also include contacting the refining mixture with a second metal oxide catalyst at a temperature of greater than 100 degrees Celsius to form a refined fatty acid alkyl ester composition. Other embodiments are also described herein.

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