UND NORTH DAKOTA

CORPORATE ENGAGEMENT & COMMERCIALIZATION

Production of aromatics from non-catalytically cracked fatty acid-based oils

UND Technology 11-11 Patent Number US 9,273,252 Date of Issuance: March 1, 2016

Summary

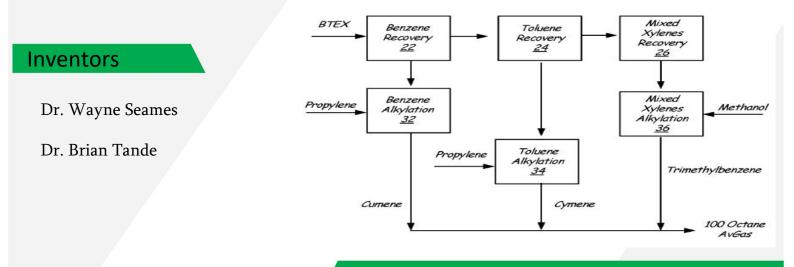
The University of North Dakota has patented a method for producing aromatic compounds from fatty acid oils. The method includes heating a fatty acid oil to a temperature ranging from about 100° C. to about 800° C. at a pressure between about vacuum conditions and about 200 psia for a time sufficient to crack the fatty acid oil and produce a cracked fatty acid oil. Undesired materials are removed from the cracked fatty acid oil, and aromatic organic compounds are obtained.





Advantages

- Renewable alternative to traditional petrochemicals
- Produces high-octane (above 95) aviation grade fuel
- Mild conditions with a simplified process



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