



Method for cold stable bio-jet fuel

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Summary

The University of North Dakota has developed and patented a method for producing a fuel composition that is derived from biomass. The fuel can operate at very low temperatures, making it suitable for aviation and cold climates. The process is based on the cracking of plant or animal oils or their associated esters, known as biodiesel, to generate lighter chemical compounds that have substantially lower cloud, pour, and/or freeze points than the original oil or biodiesel.

Advantages

- Biofuel suitable for use in aviation turbines or biodiesel engines used on land or at sea in a wide range of temperatures
- Derived from 100% biomass with a cloud point of less than -10°C
- Applicable for use with a wide variety of plant oils including flax, soybean, sunflower, and coconut oil

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