



PCT

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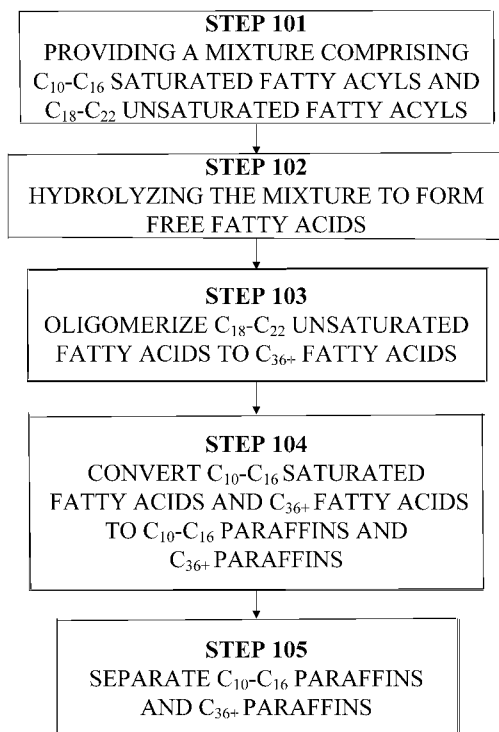
(54) **Title:** FUEL AND BASE OIL BLENDSTOCKS FROM A SINGLE FEEDSTOCK

FIGURE 1

(57) **Abstract:** A method comprising providing a fatty acyl mixture comprising: (i) a C₁₀-C₁₆ acyl carbon atom chain content of at least 30 wt. % wherein at least 80% of the C₁₀-C₁₆ acyl carbon atom chains are saturated; and (ii) a C₁₈-C₂₂ acyl carbon atom chain content of at least 20 wt. % wherein at least 50% of the acyl C₁₈-C₂₂ carbon atom chains contain at least one double bond; hydrolyzing the mixture to yield a quantity of C₁₀-C₁₆ saturated fatty acids and C₁₈-C₂₂ unsaturated fatty acids; oligomerizing at least some of the C₁₈-C₂₂ unsaturated fatty acids to yield a quantity of C₃₆₊ fatty acid oligomers; hydrotreating at least some of the C₁₀-C₁₆ saturated fatty acids and at least some of the C₃₆₊ fatty acid oligomers to yield a quantity of diesel fuel blendstock and C₃₆₊ alkanes; and separating at least some of the diesel fuel blendstock from the C₃₆₊ alkanes.



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