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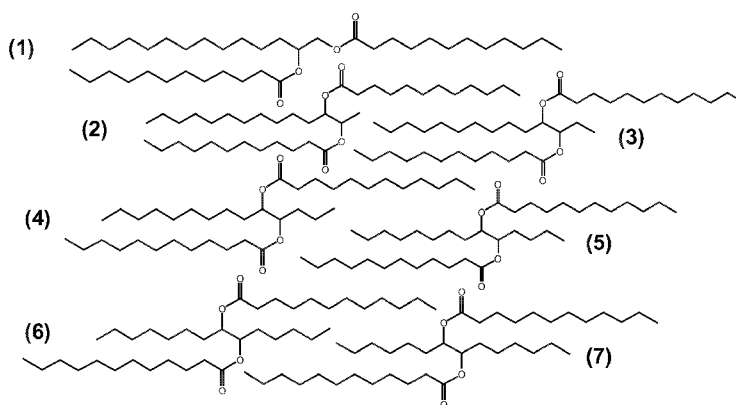


Fig. 1

(57) Abstract: The present invention is generally directed to methods of making application-specific finished lubricant compositions comprising bio-derived diester species. In some embodiments, bio-derived fatty acid moieties are reacted with Fischer-Tropsch/gas-to-liquids reaction products and/or by-products (e.g., gas-to-liquids-produced α -olefins) to yield bio-derived diester species that can then be selectively blended with base oil and one or more additive species to yield an application-specific finished lubricant product having a biomass-derived component.



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