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(54) Title: MANUFACTURE OF LOW VISCOSITY POLY ALPHA-OLEFINS

(57) Abstract: The present invention relates to poly alpha-olefins (PAO 's) which exhibit superior Noack volatility at low pour points. The poly alpha-olefin is prepared from an olefin feed comprised of a blend of octene, decene, and dodecene, the feed comprising at least 10 weight % octene and at least 30 weight% dodecene. The process includes both synthesis and distillation of the olefin and oligomerization olefin. The oligomerized olefin feed yields at least 50% low viscosity PAO having a nominal viscosity at 100° C of about 4 cSt.



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