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(54) Title: CONTROLLING BRANCH LEVEL AND VISCOSITY OF POLYALPHAOLEFINS WITH PROPENE ADDITION

(57) Abstract: The invention relates to a polyalphaolefin formed from a decene and propene and having a branch level greater than 19 % and to a process for forming such polyalphaolefins. The invention also relates to a process for forming a polyalphaolefin from at least two monomers, the two monomers comprising a decene and propene, the process comprising the steps of, inter alia, providing a correlation between the total amount of propene used to form the polyalphaolefin and at least one of branch level or viscosity of the polyalphaolefin to make polyalphaolefins comprising decene and propene with predictable branch levels and viscosities.



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