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(71) Applicant (for all designated States except US):

**EXXONMOBIL CHEMICAL PATENTS INC.**  
[US/US]; A Corporation Of The State Of Delaware, 5200  
Bayway Drive, Baytown, TX 77520-2101 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **WU, Margaret, M.**  
[US/US]; 45 Richmond Drive, Skillman, NJ 08558 (US).  
**BAILLARGEON, David, J.** [US/US]; 112 Morningside  
Drive, Cherry Hill, NJ 08003 (US). **JACKSON, Andrew**  
[US/US]; 4 Walking Purchase Drive, Pennington, NJ  
08534 (US).

(74) Agent: **KRAWCZYK, Nancy, T.**; Exxonmobil Chemical  
Company, Law Technology, P.O. Box 2149, Baytown,  
TX 77522-2149 (US).

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(54) Title: POUR POINT DEPRESSANT FOR HYDROCARBON COMPOSITIONS

(57) Abstract: Disclosed is a hydrocarbon blend made from 0.001 to 10 wt% of at least one poly- $\alpha$ -olefin, by weight of the blend, the at least one poly- $\alpha$ -olefin having a  $K_v^{100}$  within the range of from 10 to 3000 cSt and a molecular weight distribution within the range of from 1.0 to 4.5; and a base stock having a  $K_v^{100}$  below 20.0 cSt; wherein the at least one poly- $\alpha$ -olefin is present in an amount sufficient to lower the pour point of the blend by at least 5°C relative to the pour point of the base stock. The blend is formed by (a) reacting a catalyst composition and a feed containing at least two sets of  $\alpha$ -olefins, wherein the first set of  $\alpha$ -olefins is selected from C<sub>4</sub> to C<sub>12</sub>  $\alpha$ -olefins and the second set of  $\alpha$ -olefins is selected from C<sub>14</sub> or larger  $\alpha$ -olefins. The  $\alpha$ -olefin feed may have a number average carbon number of at least 8 carbon atoms or greater.



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