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## (71) Applicants (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). **EXXONMOBIL RESEARCH AND ENGINEERING COMPANY** [US/US]; 1545 Route 22 East, Annandale, NJ 08801-0900 (US).

## (72) Inventors; and

(75) Inventors/Applicants (for US only): **MEHTA, Aspy, K.** [US/US]; 21210 Atascocita Point Drive, Humble, TX77346 (US). **VARMA-NAIR, Manika** [US/US]; 28 Sycamore Way, Warren, NJ 07059 (US). **KISS, Gabor** [US/US]; 4 Thomas Court, Hampton, NJ 08827 (US). **BRANT, Patrick** [US/US]; 1038 Shorewood Drive, Seabrook, TX 77586 (US). **REYNOLDS, Robert, P.** [US/US]; 22 Goosetown Rd., Clinton, NJ 08809 (US). **CHU, John, W.** [US/US]; 484 Whiton Road, Neshanic Station, NJ 08853 (US). **RUCKER, Steven, P.** [US/US]; 5 Fawn Lane, Warren, NJ 07059 (US). **JIANG, Peijun** [US/US]; 119 Mariner Cove Court, League City, TX 77573 (US).(74) Agents: **ABDON, Robert, L.** et al.; Exxonmobil Chemical Company, Law Technology, P.O. Box 2149, Baytown, TX 77522-2149 (US).

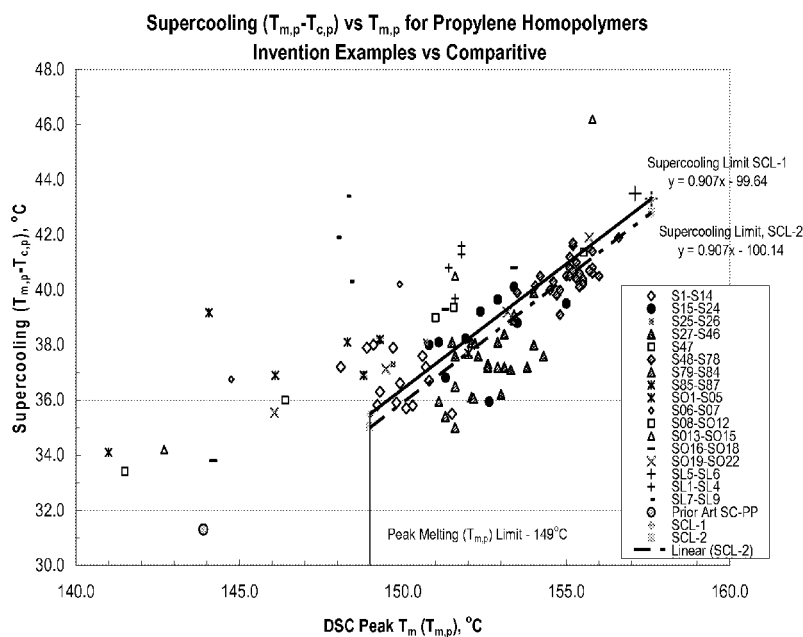
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(54) Title: ISOTACTIC POLYPROPYLENE PRODUCED FROM SUPERCRITICAL POLYMERIZATION PROCESS

FIGURE 1

(57) Abstract: This invention relates to an isotactic propylene homopolymer having: more than 15 and less than 100 regio defects (sum of 2,1-erythro and 2,1-threo insertions and 3,1-isomerizations) per 10,000 propylene units; an Mw of 35000 g/mol or more; a peak melting temperature of greater than 149 °C; anmmmm pentad fraction of 0.85 or more; a heat of fusion of 80 J/g or more; and a peak melting temperature minus peak crystallization temperature ( $T_{mp} - T_{cp}$ ) of less than or equal to  $(0.907 \text{ times } T_{mp})$  minus 99.64 ( $T_{mp} - T_{cp} < (0.907 \times T_{mp}) - 99.64$ ), as measured in 0C on the homopolymer having 0 wt% nucleating agent.



SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA,  
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