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

EXXONMOBIL CHEMICAL PATENTS INC.
[US/US]; 5200 Bayway Drive, Baytown, TX 77520-2101 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MEHTA, Aspy, K.**

[US/US]; 21210 Atascocita Point Drive, Humble, TX 77346 (US). **VARMA-NAIR, Manika** [US/US]; 28 Sycamore Way, Warren, NJ 07059 (US). **KISS, Gabor** [US/US]; 4 Thomas Court, Hampton, NJ 08827 (US). **REYNOLDS, Robert, Patrick, Jr.** [US/US]; 22 Goose-town Road, 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).

(74) Agents: **BELL, Catherine, L.** et al.; Exxonmobil Chemi-

cal Company, Law Technology, P.O. Box 2149, Baytown, TX 77522-2149 (US).

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(54) Title: SUPER-SOLUTION HOMOGENEOUS PROPYLENE POLYMERIZATION AND POLYPROPYLENES MADE THEREFROM

(57) Abstract: This invention relates to processes for producing 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; a weight-averaged molecular weight of 35000 g/mol or more; a peak melting temperature of greater than 149 °C; an mmmm 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 times T_{mp}) minus 99.64 (T_{mp}-T_{cp} < (0.907×T_{mp}) - 99.64), as measured in °C on the homopolymer having 0 wt % nucleating agent.



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