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- (71) Applicant: EQUISTAR CHEMICALS, L.P. [US/US];
1221 McKinney Street, P.O. Box 2583, Houston, TX
77252-2583 (US).
- (74) Agents: KOZAK, Dennis, M. et al.; Lyondell Chemical
Company, 3801 West Chester Pike, Newtown Square, PA
19073 (US).
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- (72) Inventors: SHAOTIAN, Wang; 7623 Deer Crossing
Drive, Mason, OH 45040 (US). ETHERTON, Bradley,
P.; 11520 Kemper Woods, Cincinnati, OH 45249 (US).
MEYER, Karen, E.; 1 Broadview Place, Cincinnati,
OH 45208 (US). LYNCH, Michael, W.; 8837 Revere
Run, West Chester, OH 45069 (US). WINSLOW, Linda,
N.; 7701 Malabar Terrace, Cincinnati, OH 45236 (US).
CRIBBS, Leonard, V.; 6679 Eagle Creek Drive, Hamil-
ton, OH 45011 (US). LIU, Jia-Chu; 9643 Sparrow Place,
Mason, OH 45040 (US).
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(54) Title: SUPPORTED OLEFIN POLYMERIZATION CATALYSTS

(57) Abstract: A supported olefin polymerization catalyst system and a method of making it are disclosed. The catalyst system comprises: (a) a support chemically treated with an organoaluminum, organosilicon, organomagnesium, or organoboron compound; (b) a single-site catalyst that contains a polymerization-stable, heteroatomic ligand; and (c) an activator. Chemical treatment is a key to making supported heterometallocenes that have high activity and long shelf-lives, and can effectively incorporate comonomers.