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(71) Applicant: **DOW GLOBAL TECHNOLOGIES LLC**
[US/US]; 2211 H.H. Dow Way, Midland, Michigan 48674
(US).

(72) Inventors: **CHANDAK, Swapnil B.**; 5555 San Felipe
Street, Houston, Texas 77056 (US). **BORSE, Nitin K.**; 230
Abner Jackson Parkway, Lake Jackson, Texas 77566 (US).
KUHLMAN, Roger L.; 230 Abner Jackson Pkwy., Lake
Jackson, Texas 77566 (US). **SZUL, John F.**; 1840 Union
Carbide Drive, S. Charleston, West Virginia 25303 (US).

(74) Agent: **HAGEN, Robert J.**; 1201 Marquette Avenue
South, Suite 400, Minneapolis, Minnesota 55403 (US).

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(54) Title: BIMODAL LINEAR LOW DENSITY POLYETHYLENE COPOLYMER

(57) Abstract: Provided are bimodal linear low density polyethylene copolymers (B-LLDPE copolymers) that have a combination of improved properties comprising at least one processability characteristic similar or better than that of an unblended monomodal ZN-LLDPE and a dart impact property similar or better than that of an unblended monomodal MCN-LLDPE. For the various aspects, the B-LLDPE copolymer has a density from 0.8900 to 0.9300 g/cm³; a melt index (I₂) from 0.1 g/10 min. to 5 g/10 min.; a M_z from 600,000 to 1,900,000 g/mol; and a SHI from 5.35 to 75 $\eta^*(1.0)/\eta^*(100)$. The B-LLDPE copolymer can be further characterized by a first melt flow ratio (I₂₁/I₂) from 32 to 140 and a first molecular weight ratio (M_z/M_w) from 4.5 to 11.

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