



US006433095B1

(12) **United States Patent**
Laurent

(10) **Patent No.:** **US 6,433,095 B1**
(45) **Date of Patent:** **Aug. 13, 2002**

(54) **HIGH DENSITY MULTIMODAL
POLYETHYLENE**

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EP 0533154 3/1991

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(21) Appl. No.: **09/538,541**

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(22) Filed: **Mar. 30, 2000**

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(30) **Foreign Application Priority Data**

Mar. 30, 1999 (EP) 99106461

(51) **Int. Cl.**⁷ **C08F 10/02**

(52) **U.S. Cl.** **525/240; 525/319; 525/324**

(58) **Field of Search** **525/240, 319, 525/324**

(57) **ABSTRACT**

Provided is a high density multimodal polyethylene, having a shear ratio (SR) of 18 or more and a HLMI of 15 g/10 mins or less comprising at least 20% by weight of a high molecular weight fraction, which high molecular weight fraction has:

- (a) a density (ρ) of 0.930 g/cm³ or less; and
- (b) a high load melt index (HLMI) of 0.30 g/10 mins or less.

(56) **References Cited**

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16 Claims, No Drawings