

Title (en)

Method of producing a uniaxially oriented polymer material.

Title (de)

Verfahren zur Herstellung von uniaxial orientiertem polymerem Material.

Title (fr)

Méthode de fabrication d'une matière en polymères uniaxialement orientés.

Publication

**EP 0000639 A1 19790207 (EN)**

Application

**EP 78300158 A 19780717**

Priority

GB 3091377 A 19770722

Abstract (en)

[origin: US4183893A] In a method of producing uniaxially oriented polymer material, particularly a uniaxially oriented film, from a high density polyethylene, in which the material is put under tension and is drawn from a transverse heated portion with a draw ratio of 5:1 or higher (preferably 7:1 to 20:1), the drawing temperature is selected to be between 80 DEG C. and 110 DEG C., and preferably below 105 DEG C., whereby excellent gas barrier characteristics are obtained in the drawn material.

IPC 1-7

**B29D 7/24**

IPC 8 full level

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CPC (source: EP US)

**B29C 55/005** (2013.01 - EP US); **C08J 5/18** (2013.01 - EP US); **B29K 2023/06** (2013.01 - EP US); **C08J 2323/06** (2013.01 - EP US)

Citation (search report)

- [X] US 3173977 A 19650316 - PAUL ESSELMANN, et al
- FR 1167990 A 19581203 - PHILLIPS PETROLEUM CO
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- FR 1446292 A 19660715 - ICI LTD

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US2018111436A1; EP0523542A1; US5017323A; EP0021635A1

Designated contracting state (EPC)

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**EP 0000639 A1 19790207**; **EP 0000639 B1 19830413**; AT 362926 B 19810625; AT A530478 A 19801115; DE 2862230 D1 19830519; DK 326678 A 19790123; GB 1598912 A 19810923; IE 47279 B1 19840208; IE 781394 L 19790122; IT 1103774 B 19851014; IT 7812712 A0 19780718; JP S5423684 A 19790222; US 4183893 A 19800115

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**EP 78300158 A 19780717**; AT 530478 A 19780721; DE 2862230 T 19780717; DK 326678 A 19780721; GB 3091377 A 19770722; IE 139478 A 19780711; IT 1271278 A 19780718; JP 8988078 A 19780721; US 92741078 A 19780724