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(54) High strength fibers of stereoregular polystyrene.

(57) The invention is a crystalline fiber comprising syndiotactic polystyrene, or a mixture. Preferably the fiber is a high strength fiber isotactic polystyrene and syndiotactic polystyrene wherein the fiber is monoaxially oriented, has a tensile strength of 10,000 psi or greater, and a modulus of 1,000,000 psi or greater.

In another aspect the invention is a process for the preparation of fibers of syndiotactic polystyrene, or a mixture of isotactic polystyrene and syndiotactic polystyrene.

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EUROPEAN SEARCH REPORT

Application Number

EP 89 11 2750

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	GB-A-502191 (DISTILLERS COMPANY LIMITED) * claims *	1	D01F6/22
P,A	EP-A-291915 (IDEMITSU KOSAN COMPANY LIMITED) * page 7, lines 25 - 34; claims *	1	

TECHNICAL FIELDS SEARCHED (Int. Cl.5)

D01F

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
THE HAGUE	25 JULY 1990	BLAS V.

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
Y : particularly relevant if combined with another document of the same category
A : technological background
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T : theory or principle underlying the invention
E : earlier patent document, but published on, or after the filing date
D : document cited in the application
L : document cited for other reasons

& : member of the same patent family, corresponding document

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