

Title (en)

Novel method of manufacturing carbon fiber using preliminary stretch.

Title (de)

Verfahren zur Herstellung von Kohlenstofffasern mittels Vorstreckung.

Title (fr)

Méthode pour la fabrication de fibres de carbone en utilisant un étirage préliminaire.

Publication

**EP 0329128 A2 19890823 (EN)**

Application

**EP 89102638 A 19890216**

Priority

US 15638988 A 19880216

Abstract (en)

Process of carbon fiber manufacture wherein the polyacrylonitrile precursor is stretched prior to oxidation in limited temperature range. Process permits greater throughput in precursor manufacture and reduces flaws in the precursor because significant stretching is at lower line speeds typically used for oxidation and carbonization in making carbon fiber.

IPC 1-7

**D01F 9/22**

IPC 8 full level

**D01F 6/18** (2006.01); **D01F 9/22** (2006.01); **D01F 9/32** (2006.01)

CPC (source: EP)

**D01D 5/12** (2013.01); **D01D 10/02** (2013.01); **D01F 9/225** (2013.01)

Cited by

FR2770233A1; EP2647745A4; WO9922052A1; US8845938B2; US10407802B2; US10961642B2

Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI LU SE

DOCDB simple family (publication)

**EP 0329128 A2 19890823**; **EP 0329128 A3 19910313**; **EP 0329128 B1 19990120**; AT E176012 T1 19990215; CA 1327258 C 19940301; DE 68928911 D1 19990304; DE 68928911 T2 19990527; ES 2128296 T3 19990516; IL 89271 A0 19890910; IL 89271 A 19921201; JP 3033960 B2 20000417; JP H026627 A 19900110

DOCDB simple family (application)

**EP 89102638 A 19890216**; AT 89102638 T 19890216; CA 590558 A 19890209; DE 68928911 T 19890216; ES 89102638 T 19890216; IL 8927189 A 19890213; JP 3731689 A 19890216