

Title (en)

Polyvinyl alcohol-based synthetic fibers having a slender cross-sectional configuration and their use for reinforcing shaped articles.

Title (de)

Polyvinylalkoholfasern mit dünnem Querschnitt und Anwendung für verstärkte Artikel.

Title (fr)

Fibres d'alcool polyvinylique à section transversale mince, et utilisation pour des articles renforcés.

Publication

EP 0313068 A2 19890426 (EN)

Application

EP 88117568 A 19881021

Priority

- JP 2938388 A 19880211
- JP 26792987 A 19871022
- JP 27215887 A 19871027
- JP 27478487 A 19871029
- JP 33384587 A 19871228

Abstract (en)

Described is the spinning of a boric acid-containing aqueous polyvinyl alcohol solution in an alkaline coagulation bath. The coagulation bath is maintained at a temperature of 55 to 95 DEG C. The resulting tow of monofilaments is drawn in a draw ratio of not less than 17. This process provides polyvinyl alcohol-based synthetic fibers having a slender cross-sectional configuration and superior mechanical properties. By using these fibers as a reinforcement material for synthetic resins, rubbers, hydraulic inorganic materials, etc., there can be obtained shaped articles possessing improved mechanical properties.

IPC 1-7

D01F 6/14

IPC 8 full level

D01F 6/14 (2006.01)

CPC (source: EP)

D01F 6/14 (2013.01)

Cited by

EP2746434A4; FR2997954A1; EP0950645A1; US6106945A; AU743013B2; EP0395048A3; WO2014075963A1; US7462392B2; US7749352B2

Designated contracting state (EPC)

BE CH DE ES FR GB IT LI

DOCDB simple family (publication)

EP 0313068 A2 19890426; EP 0313068 A3 19900509; EP 0313068 B1 19950802; DE 3854253 D1 19950907; DE 3854253 T2 19960111; ES 2077560 T3 19951201

DOCDB simple family (application)

EP 88117568 A 19881021; DE 3854253 T 19881021; ES 88117568 T 19881021