

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**

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- 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.

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IPC 8 full level

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CPC (source: EP)

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

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