

Title (en)

POLYVINYL ALCOHOL-BASED SYNTHETIC FIBERS HAVING A SLENDER CROSS-SECTIONAL CONFIGURATION AND THEIR USE FOR REINFORCING SHAPED ARTICLES

Publication

EP 0313068 A3 19900509 (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)

[origin: EP0313068A2] 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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D01F 6/14

IPC 8 full level

D01F 6/14 (2006.01)

CPC (source: EP)

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Citation (search report)

- [Y] US 3850901 A 19741126 - TANAKA S, et al
- [A] EP 0150513 A2 19850807 - KURARAY CO [JP]
- [A] EP 0286112 A2 19881012 - KURARAY CO [JP]
- [AD] EP 0146084 A2 19850626 - TORAY INDUSTRIES [JP]
- [Y] PATENT ABSTRACTS OF JAPAN, vol. 10, no. 373 (C-391)[2430], 12th December 1986; & JP-A-61 167 011 (KURARAY CO. LTD) 28-12-1986

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