

Title (en)

Fluid-drawing system with variable breaking effect.

Title (de)

Flüssigkeitsstreckanordnung mit veränderbarer Bremswirkung.

Title (fr)

Système de tirage à l'eau avec un effet de freinage variable.

Publication

EP 0468918 B1 19950308 (DE)

Application

EP 91810514 A 19910702

Priority

CH 249990 A 19900727

Abstract (en)

[origin: EP0468918A1] In a process for the hydrodynamic drawing of a synthetic monofilament or multifilament yarn, the yarn, if it is a multifilament yarn, is made into a ribbon and pulled through a brake fluid. Within the brake fluid, the yarn is heated to a temperature which corresponds to the glass transition point of the filament material and braked in such a way that the yarn tension at one point in the brake fluid corresponds to the drawing tension which is necessary to draw the filament or filaments. To be able to match process and apparatus to various materials and to various yarn speeds and to optimise process and apparatus in respect of the quality of the drawn product, the braking effect of the drawing arrangement is set and/or controlled via the length of travel of the ribbon in the brake fluid, the viscosity of the brake fluid, additional mechanical braking and/or the flow ratios in the drawing arrangement. The apparatus consists of a quasi-sealed main chamber (1) within which a brake fluid is circulated. The brake fluid also acts as a heat transfer medium. The main chamber (1) can have a prechamber (7) with a variable liquid level (14). The chambers are formed by two mutually fold-back parts, so that there is no problem with introducing the yarn. <IMAGE>

IPC 1-7

D02J 1/22

IPC 8 full level

D01D 5/14 (2006.01); **D02J 1/22** (2006.01)

CPC (source: EP US)

D01D 5/14 (2013.01 - EP US); **D02J 1/223** (2013.01 - EP US)

Cited by

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