

Title (en)

An apparatus, process and an array of nozzles for extruding cellulose fibers

Title (de)

Apparatur, Verfahren und Düsenanordnung zur Extrusion von Cellulosefasern

Title (fr)

Un appareil, procédé et réseau de buses pour extruder des fibres de cellulose

Publication

EP 2108719 B1 20120620 (EN)

Application

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Priority

- US 8250208 A 20080411
- US 8250308 A 20080411
- US 8250408 A 20080411

Abstract (en)

[origin: EP2108719A1] An apparatus is disclosed for extruding cellulose fibers. The apparatus includes a first member, a second member and a third member all secured together. Multiple nozzles extend outward from the first member and each is designed to direct an aqueous cellulose solution therethrough. As the aqueous solution is extruded, it is accentuated and accelerated by pressurized gas flowing through the first member and the second member and out through first openings formed in the third member. The pressurized gas at least partially surrounds each nozzle and shelters the molten filaments extruded therefrom. The third member also has multiple second openings formed therethrough which are also connected to a source of pressurized gas. The pressurized gas streams exiting each of the second openings function to keep each of the molten filaments from contacting an adjacent molten filament.

IPC 8 full level

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CPC (source: EP)

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Cited by

CN111607829A; CN103882535A; WO2017103314A1

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