

Title (en)
Method and apparatus for stufferbox crimping a multifilament yarn

Title (de)
Verfahren und Vorrichtung zum Stauchkräuseln eines multifilen Fadens

Title (fr)
Procédé et dispositif pour le frisage à boîte de bourrage d'un fil multifilament

Publication
EP 1593762 B1 20100519 (DE)

Application
EP 05008829 A 20050422

Priority
DE 102004022469 A 20040506

Abstract (en)
[origin: EP1593762A2] The extracted airflow is induced by an injector. The compressed air flow and the extracted flow are blown off together. Before re-entering the environment, this combined flow is filtered. The compressed airflow is supplied at variable excess pressure, in order to control the rate of extraction. The compressed airflow is only produced for a short interval at the start of the process. After switching off the compressed airflow, the compressed fibers are removed from the crumpling chamber by a further conveying system. The equipment comprises a transfer nozzle (1) for pneumatic conveying of the fibers (28), followed by a compression-crumpling chamber (15) to form and contain the concentration of fibers (29). The chamber includes a gas-permeable region surrounded by an expansion chamber (16). The source of reduced pressure, an injector (18) is connected by a suction line with the expansion chamber. An independent claim is included for corresponding equipment.

IPC 8 full level
D02G 1/12 (2006.01); **D02G 1/16** (2006.01)

CPC (source: EP US)
D02G 1/12 (2013.01 - EP US); **D02G 1/122** (2013.01 - EP US); **D02G 1/161** (2013.01 - EP US)

Cited by
CN113939466A; DE102014005311A1

Designated contracting state (EPC)
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EP 1593762 A2 20051109; EP 1593762 A3 20051221; EP 1593762 B1 20100519; AT E468428 T1 20100615; CN 1693558 A 20051109; CN 1693563 B 20100609; DE 102004022469 A1 20051201; DE 502005009582 D1 20100701; JP 2005320675 A 20051117; JP 4741281 B2 20110803; US 2005246878 A1 20051110; US 7155787 B2 20070102

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