

Title (en)
DEVICE AND METHOD FOR MANUFACTURING THREAD LINE

Title (de)
VORRICHTUNG UND VERFAHREN ZUM SPINNEN VON FÄDEN

Title (fr)
DISPOSITIF ET PROCEDE DE FABRICATION DE FIL

Publication
EP 1510603 A1 20050302 (EN)

Application
EP 03733111 A 20030528

Priority
• JP 0306653 W 20030528
• JP 2002161124 A 20020603
• JP 2003073260 A 20030318

Abstract (en)
Production of a yarn, using a spinneret having numerous spinning holes arranged in a straight line (s) , and a spinning tube installed below it, spaced from it, and having a filament passage rectangular in cross section with its long side direction agreeing with the direction in which the spinning holes are arranged side by side, wherein gas is injected from the injection holes formed on both the long sides of the filament passage for injecting gas obliquely downward to the filaments, for disposing the numerous filaments in a row and for forming a gas stream flowing downward in the filament passage, characterized in that the speed of the gas stream flowing downward in the filament passage is not less than 60% of the take-up speed of the numerous filaments, or that the gas generated from the numerous filaments is sucked and discharged outside, in the range between the spinneret and the spinning tube. Even if the yarn runs at a high speed, the obtained yarn can have a high elongation. <IMAGE>

IPC 1-7
D01D 5/092; **D01D 5/098**

IPC 8 full level
D01D 5/092 (2006.01); **D01D 5/098** (2006.01)

CPC (source: EP US)
D01D 5/092 (2013.01 - EP US); **D01D 5/0985** (2013.01 - EP US)

Cited by
EP2135980A3; US8419987B2; EP3199672A1; RU2694912C1; WO2017129313A1

Designated contracting state (EPC)
DE TR

DOCDB simple family (publication)
EP 1510603 A1 20050302; **EP 1510603 A4 20061213**; CN 1659319 A 20050824; TW 200307771 A 20031216; US 2006145385 A1 20060706; WO 03102278 A1 20031211

DOCDB simple family (application)
EP 03733111 A 20030528; CN 03812914 A 20030528; JP 0306653 W 20030528; TW 92114656 A 20030530; US 51683504 A 20041202