

Title (en)

Heating device for a running yarn

Title (de)

Heizkörper für einen laufenden Faden

Title (fr)

Dispositif de chauffage pour un fil en mouvement

Publication

EP 0796935 A2 19970924 (DE)

Application

EP 97107164 A 19930211

Priority

- DE 4218809 A 19920606
- DE 4222631 A 19920710
- DE 4228129 A 19920825
- DE 4232066 A 19920924
- DE 4233731 A 19921007
- DE 4237092 A 19921103
- EP 93903163 A 19930211

Abstract (en)

Yarn is heated, esp. on a false twist texturing machine, by a heater with a contact heating surface consisting of a series of spaced ridges which carry the yarn at a distance from the heater surface and which are arranged to reach the temperature of the heater, pref. a sufficiently high temperature to be self cleaning. A heating tube is heated by resistance heaters and carries a series of rings or discs of wear and heat resistant material, e.g. Al or Ti oxide, which are sepd. by spacers. Adjustable inlet and outlet guides guide the yarn across them along a helix. The relative position of the guides is adjustable to control the helix angle and contact length. The spacing length and height of the yarn carriers can be varied to control the contact length. The yarn carrier can be made of a single shape, perforated cuff placed on the heating tube.

Abstract (de)

Die vorliegende Erfindung betrifft einen Heizkörper für einen laufenden thermoplastischen Faden, der entlang einer beheizten Heizoberfläche über Stege geführt wird, die an einer zur Heizoberfläche kongruenten Manschette gebildet sind. Der Wärmefluß auf den Faden ist durch Veränderung der geometrischen Wärmeübertragungsparameter einstellbar.

IPC 1-7

D02J 13/00

IPC 8 full level

D02G 1/02 (2006.01); **D02G 1/08** (2006.01); **D02J 13/00** (2006.01)

CPC (source: EP)

D02J 13/00 (2013.01)

Cited by

CN106192105A

Designated contracting state (EPC)

CH DE ES FR GB IT LI

DOCDB simple family (publication)

WO 9325738 A1 19931223; DE 59307740 D1 19980108; EP 0602190 A1 19940622; EP 0602190 B1 19971126; EP 0796935 A2 19970924; EP 0796935 A3 20040616; ES 2109476 T3 19980116; JP 3430244 B2 20030728; JP H07501366 A 19950209; KR 970009802 B1 19970618; RU 2101400 C1 19980110; RU 94030381 A 19960727; UA 26999 C2 20000228

DOCDB simple family (application)

DE 9300118 W 19930211; DE 59307740 T 19930211; EP 93903163 A 19930211; EP 97107164 A 19930211; ES 93903163 T 19930211; JP 50100494 A 19930211; KR 19940700371 A 19940204; RU 94030381 A 19930211; UA 94005353 A 19930211