

Title (en)

Yarn heating device

Title (de)

Garnerwärmungsvorrichtung

Title (fr)

Dispositif de chauffage de fil

Publication

EP 1849894 B1 20100922 (EN)

Application

EP 07007132 A 20070404

Priority

JP 2006104872 A 20060406

Abstract (en)

[origin: EP1849894A2] An object of the present invention is to provide a structure of a yarn heating device suitable for a high-speed heat processing of a yarn. The yarn heating device (5) comprises rollers (6a and 6b) which a yarn (2) is wound around, induction heating coils (22 and 22) as a heating means, and electric motors (21 and 21) for driving to rotate the rollers (6a and 6b). Each of the rollers (6a and 6b) includes a cylindrical portion (31) which the yarn (2) is wound around and a flange portion (32) for connecting the cylindrical portion (31) with an output shaft (23) of the electric motor (21). The induction heating coil (22) is disposed outside each of the rollers (6a and 6b), and each of the rollers (6a and 6b) is heated by the induction heating coil (22) to heat the yarn (2).

IPC 8 full level

D02G 1/00 (2006.01)

CPC (source: EP)

D01H 13/28 (2013.01); **D02J 13/005** (2013.01); **H05B 6/107** (2013.01); **H05B 6/145** (2013.01)

Designated contracting state (EPC)

DE IT

DOCDB simple family (publication)

EP 1849894 A2 20071031; **EP 1849894 A3 20080305**; **EP 1849894 B1 20100922**; CN 101050558 A 20071010; DE 602007009334 D1 20101104; JP 2007277753 A 20071025

DOCDB simple family (application)

EP 07007132 A 20070404; CN 200710096726 A 20070406; DE 602007009334 T 20070404; JP 2006104872 A 20060406