

Title (en)
YARN FEEDING DEVICE

Title (de)
FADENLIEFERGERÄT

Title (fr)
DISPOSITIF DE LIVRAISON DE FIL

Publication
EP 1429988 B1 20060607 (DE)

Application
EP 02777186 A 20020924

Priority
• EP 0210700 W 20020924
• SE 0103196 A 20010924

Abstract (en)
[origin: US7083134B2] The invention relates to a yarn feeding device (F) for weaving or knitting machines whose winding element (W) is driven by an electric motor (M) controlled by an electronic speed control device (CU). According to the invention, the electric motor (M) is a synchronous motor, in particular, a permanent magnet (PM) motor with the speed control device (CU) provided for effecting a permanent vector control with the stator being sinusoidally acted upon. Continuously determined information pertaining to the relevant rotational position of the rotor (R) of the motor (M) is used in the speed control device (CU), which serves to perform permanent vector control, in order to adjust at least one predetermined rotational position (X 1 , X 2) of the winding element (W).

IPC 8 full level
B65H 51/22 (2006.01); **D03D 47/36** (2006.01); **D04B 15/48** (2006.01)

CPC (source: EP KR US)
D03D 47/34 (2013.01 - KR); **D03D 47/361** (2013.01 - EP US); **D04B 15/482** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)
WO 03029121 A1 20030410; AT E328838 T1 20060615; CN 100337893 C 20070919; CN 1753823 A 20060329; DE 50207126 D1 20060720; EP 1429988 A1 20040623; EP 1429988 B1 20060607; JP 2005504190 A 20050210; JP 4505223 B2 20100721; KR 20040039397 A 20040510; SE 0103196 D0 20010924; US 2005061903 A1 20050324; US 7083134 B2 20060801

DOCDB simple family (application)
EP 0210700 W 20020924; AT 02777186 T 20020924; CN 02818652 A 20020924; DE 50207126 T 20020924; EP 02777186 A 20020924; JP 2003532391 A 20020924; KR 20047004188 A 20020924; SE 0103196 A 20010924; US 49054104 A 20041018