

Title (en)
Method for making a plied yarn in a combined spinning-twisting process

Title (de)
Verfahren zur Herstellung eines Zwirns in einem kombinierten Spinn-Zwirnprozess

Title (fr)
Procédé pour fabriquer un fil retors dans un processus combiné de filature et retordage

Publication
EP 0900863 A3 19990929 (DE)

Application
EP 98113444 A 19980718

Priority
DE 19739282 A 19970908

Abstract (en)
[origin: EP0900863A2] The apparatus has two footstep bearings (11,12) as axial supports for the shafts (1.1,2.1) of the spinning turbines. An electromotor (M) has a drive (13) against the shafts. Each spinning turbine (1,2) has paired guide rollers (14a,14b;15a,15b), forming a wedge gap between them to hold the turbine shafts against the drive, so that the shafts and the motor (M) rotary axis form an equilateral triangle, where the bisection with the motor axis is on the centre plane of the wedge gap. At least one of the rotary axes of the motor (M) and/or the turbine shafts (1.1,2.1) and/or at least one of the guide rollers (14a,14b;15a,15b) is at an angle to the other rotary axes, so that an axial force is applied to each turbine shaft (1.1,2.1) against its footstep bearing (11,12). In relation to the spindle axis, pref. only the turbine shafts (1.1,2.1) or at least one of the two guide rollers are at an angle, and the guide roller axes are at an angle to each other. Or only the axis of the drive unit (13) is at an angle to the spindle axis. The motor (M) with its drive unit (13) and each of the guide rollers (14a,14b;15a,15b) can be moved away from the turbine shafts, pref. against spring pressure. The motor (M) drive unit (13) is a friction wheel. The dia. of the guide rollers is at least 2.5 time larger than the dia. of the turbine shafts. The friction wheel dia. is significantly larger than the sum of the axis gap of the rotor shafts and the dia. of a shaft. The circle enclosing all the guide rollers, the two spinning turbines and the motor (M), in plan, is max. equal to the sum of twice the outer dia. of the open-end spinning turbines plus 10 mm. The guide rollers are clad with an elastic material.

IPC 1-7
D01H 4/12; **D01H 4/14**; **D01H 7/90**

IPC 8 full level
D01H 1/10 (2006.01); **D01H 4/06** (2006.01); **D01H 4/08** (2006.01); **D01H 4/14** (2006.01); **D01H 7/02** (2006.01); **D01H 7/86** (2006.01); **D01H 7/88** (2006.01); **D01H 7/90** (2006.01)

CPC (source: EP US)
D01H 4/14 (2013.01 - EP US); **D01H 7/90** (2013.01 - EP US)

Citation (search report)
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• [AD] DE 4331801 C1 19950223 - PALITEX PROJECT CO GMBH [DE]
• [AD] DE 1901453 A1 19700813 - SCHURR STAHLER & GRILL

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

DOCDB simple family (publication)
EP 0900863 A2 19990310; **EP 0900863 A3 19990929**; CN 1210912 A 19990317; CZ 286998 A3 19990317; DE 19739282 A1 19990311; JP H11140726 A 19990525; US 6052985 A 20000425

DOCDB simple family (application)
EP 98113444 A 19980718; CN 98119110 A 19980908; CZ 286998 A 19980908; DE 19739282 A 19970908; JP 25259998 A 19980907; US 14938498 A 19980908