

Title (en)  
Yarn feeder with improved yarn path

Title (de)  
Fadenliefergerät mit verbessertem Fadenlauf

Title (fr)  
Fournisseur de fil avec une voie de fil améliorée

Publication  
**EP 0943571 B1 20040609 (DE)**

Application  
**EP 99103639 A 19990225**

Priority  
DE 19811240 A 19980314

Abstract (en)  
[origin: EP0943571A2] The thread delivery wheel (6) is rotatably located around a rotary axis (7) and is arranged in a thread running path so that a thread is wound around it. A motor (9) drives the thread running wheel and the thread running path in connection with the thread delivery wheel is fixed at an acute angle different from zero to a plane (41) on which the rotary axis (7) stands vertically. The thread feed devices (25,6,22,26) contain a guide device (22), which feeds the thread exclusively in a first cross direction and is formed as a pin, over which the thread runs freely movably in the pin longitudinal direction. The thread locates on the guide device at an obtuse angle greater than 130 degrees.

IPC 1-7  
**B65H 51/22**

IPC 8 full level  
**B65H 49/00** (2006.01); **B65H 51/22** (2006.01); **D04B 15/48** (2006.01); **D04B 15/50** (2006.01); **D04B 15/52** (2006.01)

CPC (source: EP KR US)  
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Cited by  
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**EP 0943571 A2 19990922; EP 0943571 A3 20000112; EP 0943571 B1 20040609**; BR 9901004 A 20000308; CA 2265382 A1 19990914; CA 2265382 C 20041109; CN 1238297 A 19991215; CO 4810243 A1 19990630; DE 19811240 A1 19990930; DE 19811240 C2 20000531; DE 59909667 D1 20040715; ES 2218889 T3 20041116; ID 22179 A 19990916; IL 128885 A0 20000131; IL 128885 A 20030529; JP 3133298 B2 20010205; JP H11292393 A 19991026; KR 19990077813 A 19991025; RU 2162816 C2 20010210; TR 199900565 A2 19991021; TR 199900565 A3 19991021; TW 473452 B 20020121; US 6131842 A 20001017; UY 25424 A1 19990719

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**EP 99103639 A 19990225**; BR 9901004 A 19990312; CA 2265382 A 19990312; CN 99103983 A 19990312; CO 99015393 A 19990312; DE 19811240 A 19980314; DE 59909667 T 19990225; ES 99103639 T 19990225; ID 999901 A 19990310; IL 12888599 A 19990308; JP 5986599 A 19990308; KR 19990008227 A 19990312; RU 99105266 A 19990312; TR 9900565 A 19990312; TW 88103791 A 19990312; US 26840699 A 19990315; UY 25424 A 19990311