Title (en)

Method for detecting a yarn store in a yarn storage and feed device, and yarn storage and feed device

Title (de)

Verfahren zum Ermitteln eines Fadenvorrats in einer Fadenspeicher- und -liefervorrichtung, und Fadenspeicher- und -liefervorrichtung

Title (fr)

Procédé pour détecter une réserve de fil dans un dispositif pour emmagasiner et délivrer le fil, et dispositif pour emmagasiner et délivrer le fil

Publication

EP 0658507 B1 19980225 (DE)

Application

EP 94117383 A 19941103

Priority

SE 9304257 A 19931217

Abstract (en)

[origin: US5765399A] PCT No. PCT/EP94/03616 Sec. 371 Date Aug. 16, 1996 Sec. 102(e) Date Aug. 16, 1996 PCT Filed Nov. 3, 1994 PCT Pub. No. WO95/16628 PCT Pub. Date Jun. 22, 1995For determining the movement of a thread supply boundary on the storage surface of a thread storage and feed device, different scanning properties of at least two circumferentially offset circumferential sections of the storage surface are scanned simultaneously and converted into storage surface signals which are nonidentical among themselves and which are discriminated from thread signals which are identical among themselves. The thread signals are generated by sensors which scan a scanning zone on the storage surface and formed on the basis of a scanning property of the thread windings when the thread supply is present in the scanning zone. The thread storage and feed device is provided with first and second circumferential sections on the storage surface differing from one another with respect to their scanning properties, and a plurality of sensors. The sensors are spaced approximately in the circumferential direction of the storage body in such a way that at least a first circumferential section of the storage surface can be scanned by one sensor and, simultaneously, a second circumferential section of the storage surface can be scanned by at least one additional sensor.

IPC 1-7

B65H 51/22; D03D 47/36; D04B 15/48

IPC 8 full level

B65H 51/22 (2006.01); **B65H 63/06** (2006.01); **D03D 47/36** (2006.01); **D04B 15/48** (2006.01)

CPC (source: EP KR US)

B65H 51/22 (2013.01 - KR); **D03D 47/36** (2013.01 - KR); **D03D 47/367** (2013.01 - EP US); **D04B 15/48** (2013.01 - KR); **D04B 15/486** (2013.01 - EP US); **D04B 35/12** (2013.01 - EP US)

Cited by

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Designated contracting state (EPC)

BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)

US 5765399 A 19980616; BR 9408326 A 19970819; CN 1132774 C 20031231; CN 1137782 A 19961211; CZ 150196 A3 19960911; CZ 285707 B6 19991013; DE 59405305 D1 19980402; EP 0658507 A1 19950621; EP 0658507 B1 19980225; ES 2114647 T3 19980601; JP 2859440 B2 19990217; JP H09507047 A 19970715; KR 100345614 B1 20021130; KR 970700131 A 19970108; RU 2125965 C1 19990210; SE 502175 C2 19950904; SE 9304257 D0 19931217; SE 9304257 L 19950618; TR 28288 A 19960424; UA 29491 C2 20001115; WO 9516628 A1 19950622

DOCDB simple family (application)

US 65628496 A 19960816; BR 9408326 A 19941103; CN 94194511 A 19941103; CZ 150196 A 19941103; DE 59405305 T 19941103; EP 9403616 W 19941103; EP 94117383 A 19941103; ES 94117383 T 19941103; JP 51648294 A 19941103; KR 19960703303 A 19960617; RU 96115124 A 19941103; SE 9304257 A 19931217; TR 130994 A 19941215; UA 96052121 A 19941103