Title (en)
DEVICE FOR MONITORING THE LOOPER-THREAD SUPPLY IN A DOUBLE-LOCK-STITCH SEWING MACHINE.

Title (de)
VORRICHTUNG ZUM ÜBERWACHEN DES GREIFERFADEN-VORRATS EINER DOPPELSTEPPSTICH-NÄHMASCHINE.

Title (fr)
DISPOSITIF DE CONTROLE DE LA RESERVE EN FIL DE DESSOUS D'UNE MACHINE A COUDRE A POINTS NOUES DEUX FILS.

Publication
EP 0542760 B1 19941019

Application
EP 91912435 A 19910713

Priority
• DE 4024989 A 19900807
• DE 4118158 A 19910603
• EP 9101320 W 19910713

Abstract (en)
[origin: WO9202673A1] Fixed to the bobbin (13) mounted in the shuttle (9) of a sewing machine (1) is a data carrier (22) in which data describing the amount and optionally the nature of the thread wound on the bobbin are stored. The data carrier (22) is scanned by a sensor preferably comprising a first (27) and a second (27') read/write head. After the thread has been wound on an empty bobbin (13'), the second read/write head (27') enters the data defining the thread supply into the data carrier (22) on the bobbin (13'). The first read/write head (27) is used, on completion of a sewing operation, to enter the data defining the current thread supply into the data carrier (22) on the bobbin (13) concerned, or to read the data off the data carrier (22). Thus the bobbin (13) can give information at any time on the instantaneous thread supply on the bobbin (13).

IPC 1-7
D05B 59/02

IPC 8 full level
B65H 67/06 (2006.01); **B65H 75/18** (2006.01); **D05B 59/02** (2006.01)

CPC (source: EP US)
B65H 67/063 (2013.01 - EP US); **B65H 75/182** (2013.01 - EP US); **D05B 59/02** (2013.01 - EP US); B65H 2701/31 (2013.01 - EP US)

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
WO 9202673 A1 19920220; DE 59103298 D1 19941124; EP 0542760 A1 19930526; EP 0542760 B1 19941019; JP 3041046 B2 20000515; JP H06500241 A 19940113; US 5353726 A 19941011

DOCDB simple family (application)
EP 9101320 W 19910713; DE 59103298 T 19910713; EP 91912435 A 19910713; JP 51185891 A 19910713; US 94980892 A 19921215