

Title (en)

TAPE TAKE-UP REEL WITH AN ELECTRIC MOTOR DRIVE, ESPECIALLY ONE WITH A SPEED-TRANSFORMING TRANSMISSION

Title (de)

AUFWICKELHASPEL FÜR BÄNDER, MIT EINEM INSBESONDERE EIN ÜBERSETZUNGSGETRIEBE AUFWEISENDEN ELEKTROMOTORISCHEN ANTRIEB

Title (fr)

BOBINOIR POUR BANDES COMPORTANT UN ENTRAÎNEMENT PAR MOTEUR ELECTRIQUE POSSEDANT NOTAMMENT UN REDUCTEUR

Publication

**EP 0683704 B1 19961227 (DE)**

Application

**EP 94906920 A 19940208**

Priority

- DE 4303721 A 19930209
- EP 9400351 W 19940208

Abstract (en)

[origin: WO9417933A1] The invention pertains to a tape take-up reel with an electric motor drive (A1, A2). In order to be able to wind tapes (B) in the shortest possible winding time, with constant tension on the tape, while providing a low technical complexity, the invention divides the winding operation into two phases. In the initial phase the winding proceeds with a constant tension on the tape at a constant rotational speed (n) of the reel cylinder (HT2), whereas in the second phase the winding proceeds with constant tension on the tape at a constant tape speed (V). Allowing for a negligible lengthening of the winding time, the driving torque of the drive motor can be reduced as a function of the point in time at which the changeover from constant rotational speed (n) to constant tape speed (V) occurs.

IPC 1-7

**B21C 47/00**; **B21B 37/54**

IPC 8 full level

**B65H 23/18** (2006.01); **B21B 37/54** (2006.01); **B21C 47/00** (2006.01); **B21C 47/02** (2006.01)

CPC (source: EP)

**B21B 37/54** (2013.01); **B21C 47/003** (2013.01)

Designated contracting state (EPC)

DE FR SE

DOCDB simple family (publication)

**DE 4303721 A1 19940811**; **DE 4303721 C2 19950427**; DE 59401402 D1 19970206; EP 0683704 A1 19951129; EP 0683704 B1 19961227; JP H08506273 A 19960709; WO 9417933 A1 19940818

DOCDB simple family (application)

**DE 4303721 A 19930209**; DE 59401402 T 19940208; EP 9400351 W 19940208; EP 94906920 A 19940208; JP 51765594 A 19940208