

Title (en)
Thread take-up device

Title (de)
Fadenaufhol-Vorrichtung

Title (fr)
Dispositif chargé de récupérer l'excédent de fil

Publication
EP 1605085 B1 20110223 (DE)

Application
EP 04013832 A 20040612

Priority
EP 04013832 A 20040612

Abstract (en)
[origin: EP1605085A1] To maintain the yarn tension during reversal of the carriage at the end of its travel, the yarn (40) is taken through a clamp (2) and an eyelet (13) at the end of a spring-loaded dancer arm (1). The movement (SG) of the arm (1) takes up the surplus yarn (W) during carriage reversal (X, Y) and also operates the clamp (2). During part (SL) of the movement the clamp is open, but is shut during the remaining part (SF) to avoid excess yarn feed. Alternative trigger mechanisms are shown to provide sudden closing and opening of the clamp. The dancer arm swings round a pivot (10) and is a double-ended lever, the upper end (12) operating the trigger. The clamping force is provided by a separate spring and does not depend on the yarn tension.

IPC 8 full level
D04B 15/44 (2006.01)

CPC (source: EP)
D04B 15/44 (2013.01)

Cited by
CN103668752A; CN116946807A

Designated contracting state (EPC)
DE IT TR

DOCDB simple family (publication)
EP 1605085 A1 20051214; EP 1605085 B1 20110223; CN 100443650 C 20081217; CN 1707007 A 20051214; DE 502004012222 D1 20110407

DOCDB simple family (application)
EP 04013832 A 20040612; CN 200510078138 A 20050613; DE 502004012222 T 20040612