

Title (en)  
THREAD PROCESSING SYSTEM AND THREAD TENSIO METER

Title (de)  
FADEN-VERARBEITUNGSSYSTEM UND FADEN-TENSIO METER

Title (fr)  
SYSTEME DE TRAITEMENT DE FIL ET TENSIO MERE POUR FIL

Publication  
**EP 1646573 A1 20060419 (DE)**

Application  
**EP 04740823 A 20040708**

Priority  
• EP 2004007532 W 20040708  
• DE 10333292 A 20030722

Abstract (en)  
[origin: WO2005014456A1] In a thread processing system (S), a thread delivery device (F) comprising a drum-type storage body (4) and a tensiometer (C) that contains a tensiometer element (E) is positioned upstream of an infeed device (EV). The thread is deviated by the tensiometer element (E) of the tensiometer at a predetermined deviation angle (  $\alpha$  ) and the components of the processing system (S) are positioned in such a way that the upstream and downstream thread path sections (a, b) are at least largely rectilinear. To achieve this, the axis (X) of the storage body (4) is tilted at an angle approximating to the predetermined thread deviation angle (  $\alpha$  ) in relation to the downstream thread section (b).

IPC 1-7  
**B65H 59/40**; **B65H 51/22**; **D03D 47/34**

IPC 8 full level  
**B65H 59/40** (2006.01); **B65H 51/22** (2006.01); **D03D 47/34** (2006.01); **D04B 15/44** (2006.01)

CPC (source: EP)  
**B65H 59/40** (2013.01); **D03D 47/34** (2013.01); **D04B 15/44** (2013.01); **B65H 2701/31** (2013.01)

Citation (search report)  
See references of WO 2005014456A1

Cited by  
US10168262B2; WO2019032007A1

Designated contracting state (EPC)  
BE CH DE IT LI SE TR

DOCDB simple family (publication)  
**DE 10333292 A1 20050210**; CN 100475677 C 20090408; CN 1816489 A 20060809; DE 502004009728 D1 20090820; EP 1646573 A1 20060419; EP 1646573 B1 20090708; WO 2005014456 A1 20050217

DOCDB simple family (application)  
**DE 10333292 A 20030722**; CN 200480019255 A 20040708; DE 502004009728 T 20040708; EP 04740823 A 20040708; EP 2004007532 W 20040708