

Title (en)  
Thread tension device

Title (de)  
Fadenspannvorrichtung

Title (fr)  
Dispositif de tension de fil

Publication  
**EP 2192071 B1 20110817 (DE)**

Application  
**EP 08020793 A 20081129**

Priority  
EP 08020793 A 20081129

Abstract (en)  
[origin: EP2192071A1] The device (1) has a thread drum (3) arranged between an inlet guide (5) and an outlet guide (6) and provided with a rotation axis (22) and a work area (14). A thread path runs between the inlet guide and the outlet guide on the work area in a circumferential direction. The work area is divided into sections (16) in an axial direction, where the sections exhibit different characteristics. One section exhibits smooth contact surface enclosing an acute angle with the rotation axis. Another section exhibit a V-shaped groove (18) between plate elements.

IPC 8 full level  
**B65H 59/14** (2006.01); **B65H 59/16** (2006.01); **D02H 13/24** (2006.01)

CPC (source: EP)  
**B65H 59/14** (2013.01); **B65H 59/16** (2013.01); **B65H 2701/31** (2013.01)

Cited by  
US10633213B2; BE1023564B1; EP3842371A1; WO2017077454A1

Designated contracting state (EPC)  
CH DE ES IT LI

DOCDB simple family (publication)  
**EP 2192071 A1 20100602**; **EP 2192071 B1 20110817**; CN 101746645 A 20100623; CN 101746645 B 20120926; JP 2010126363 A 20100610; JP 5006893 B2 20120822; TW 201030198 A 20100816; TW I386528 B 20130221

DOCDB simple family (application)  
**EP 08020793 A 20081129**; CN 200910007050 A 20090209; JP 2009051603 A 20090305; TW 98131351 A 20090917