

Title (en)  
Lower thread tension control device

Title (de)  
Steuerungsvorrichtung für eine geringere Fadenspannung

Title (fr)  
Dispositif de contrôle de tension de fil inférieur

Publication  
**EP 2196572 B1 20110824 (EN)**

Application  
**EP 09176975 A 20091125**

Priority  
JP 2008299413 A 20081125

Abstract (en)  
[origin: EP2196572A1] A lower thread tension control device (1) includes a thread tensioning spring means (20) and an electromagnet (26). The thread tensioning spring means (20) includes a support member (17) having an L-shaped section and is made of a magnetic material, an adjust screw (19) which is screwed to the support member (17) through an intermediate portion (14c) of the thread tensioning spring (14), and a support shaft (18) which having both ends attached to the bobbin case (11) to rotatably support the support member (17). A pressing force of the thread pressing portion (14a) of the thread tensioning spring (14) against the lower thread is controlled in accordance with a change in a current to be supplied to the electromagnet (26), and by adjusting an initial tension of the lower thread in accordance with a screwing amount of the adjust screw (19).

IPC 8 full level  
**D05B 57/26** (2006.01)

CPC (source: EP)  
**D05B 57/26** (2013.01)

Cited by  
CN115262112A

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DOCDB simple family (publication)  
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