

Title (en)

Top and bottom feed sewing machine

Title (de)

Nähmaschine mit Ober- und Untertransport

Title (fr)

Machine à coudre à alimentation supérieure et inférieure

Publication

EP 2275594 A3 20150325 (EN)

Application

EP 10169705 A 20100715

Priority

JP 2009166244 A 20090715

Abstract (en)

[origin: EP2275594A2] A top and bottom feed sewing machine (100) includes pressing means (6, 10) configured to press rollers (3, 7) toward a workpiece (C1, C2) with a pressing force which is adjustable in accordance with an amount of electric current supplied. The top and bottom feed sewing machine (100) further includes a setting means (80) configured to set an adjustment period in which the pressing force is adjusted and an adjusted pressing force, and a pressing force control means (13) configured to control the amount of electric current to be supplied to each of the pressing means (6, 10) such that, in the adjustment period, the pressing force of each of the rollers (3, 7) is adjusted to the adjusted pressing force.

IPC 8 full level

D05B 35/10 (2006.01); **D05B 19/16** (2006.01); **D05B 27/10** (2006.01)

CPC (source: EP KR)

D05B 19/16 (2013.01 - EP KR); **D05B 27/10** (2013.01 - EP KR); **D05B 27/12** (2013.01 - KR); **D05B 35/102** (2013.01 - EP KR)

Citation (search report)

- [Y] DE 2610430 A1 19760916 - TOKYO JUKI INDUSTRIAL CO LTD, et al
- [Y] FR 2518134 A1 19830617 - BROTHER IND LTD [JP]
- [A] DE 3837924 A1 19890713 - TEXTIMA VEB K [DD]
- [A] US 4995328 A 19910226 - TANAKA TAKAFUMI [JP]
- [A] JP H04108490 A 19920409 - AGENCY IND SCIENCE TECHN

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

BA ME RS

DOCDB simple family (publication)

EP 2275594 A2 20110119; **EP 2275594 A3 20150325**; **EP 2275594 B1 20180110**; CN 101956302 A 20110126; CN 101956302 B 20131016; JP 2011019650 A 20110203; KR 20110007057 A 20110121

DOCDB simple family (application)

EP 10169705 A 20100715; CN 201010230868 A 20100715; JP 2009166244 A 20090715; KR 20100067891 A 20100714