Title (en)
Sewing machine

Title (de)
Nähmaschine

Title (fr)
Machine à coudre

Publication
EP 2845939 B1 20180103 (EN)

Application
EP 14183631 A 20140904

Priority
JP 2013183636 A 20130905

Abstract (en)
[origin: EP2845939A1] A sewing machine (10) comprises a throat plate (40, 40A) formed with a needle hole (411, 421, 431A) through which a sewing needle (11) passes, a moving mechanism (60) configured to move a workpiece along an upper surface of the throat plate (40, 40A), a needle up-down moving mechanism (30) configured to move the sewing needle (11), a shuttle mechanism (50) configured to capture an upper thread (U) from the sewing needle (11) below the throat plate (40, 40A) and to interlace the upper thread (U) with a lower thread (D); a thread cutting device (80, 80A) provided between the throat plate (40, 40A) and the shuttle mechanism (50) to cut the upper and lower threads (U, D), a wiper mechanism (90) configured to pull out, upwardly from the workpiece, a sewing needle side portion of the upper thread (U) that has been cut by the thread cutting device (80, 80A), a control device (120), a remaining end cutoff mechanism (100, 100A) disposed below the upper surface of the throat plate (40, 40A) and above the thread cutting device (80, 80A). The remaining end cutoff mechanism (100, 100A) is configured to cut off, after the lower thread (D) and the upper thread (U) are cut by the thread cutting device (80, 80A), remaining end portions of the lower thread (D) and the upper thread (U) connected to the workpiece.

IPC 8 full level
D05B 65/06 (2006.01)

CPC (source: CN EP)
D05B 55/14 (2013.01 - CN); **D05B 65/06** (2013.01 - CN EP)

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 RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2845939 A1 20150311; **EP 2845939 B1 20180103**; CN 104420083 A 20150318; CN 104420083 B 20191011; CN 105518199 A 20160420; CN 105518199 B 20181113; JP 6441221 B2 20181219; JP WO2015033996 A1 20170302; WO 2015033996 A1 20150312

DOCDB simple family (application)
EP 14183631 A 20140904; CN 201410453060 A 20140905; CN 201480048782 A 20140904; JP 2014073316 W 20140904; JP 2015535511 A 20140904