

Title (en)
Thread routing mechanism for sewing machine

Title (de)
Fadenverlegungsmechanismus für Nähmaschine

Title (fr)
Mécanisme de routage de fil pour machine à coudre

Publication
EP 2801651 A1 20141112 (EN)

Application
EP 13167371 A 20130510

Priority
EP 13167371 A 20130510

Abstract (en)
A thread routing mechanism for sewing machine includes a cylindrical needle bar case having a rotation axis and holding multiple spaced needle bars that are equally distant from the rotation axis and respectively carry a needle having an eye; a locating disk moving synchronously with the needle bar case and having multiple thread guide holes spaced around the rotation axis; and a thread take-up lever having a thread take-up end with multiple thread holes and movable upward and downward in a space directly above the needle bar case. Each thread hole together with a corresponding thread guide hole and a corresponding eye define a thread course, such that threads respectively routed through the thread courses have the same length even when the needle bars are changed from one to another. A thread pinching unit is also included to pinch or release the threads in or from the thread guide holes.

IPC 8 full level
D05B 49/00 (2006.01); **D05C 11/10** (2006.01)

CPC (source: EP)
D05B 49/00 (2013.01); **D05C 11/10** (2013.01)

Citation (search report)

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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

Designated extension state (EPC)
BA ME

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