

Title (en)
Thread cutting device for sewing machine

Title (de)
Fadenschneidevorrichtung für Nähmaschine

Title (fr)
Dispositif de découpe de fils pour machine à coudre

Publication
EP 2241662 A3 20150325 (EN)

Application
EP 10159698 A 20100413

Priority
JP 2009098775 A 20090415

Abstract (en)
[origin: EP2241662A2] The invention relates to a thread cutting device for a sewing machine. The thread cutting device includes: a cutting knife including a cutting edge and serving to carry out a rotation to an initial position and a thread cutting position advanced from the initial position to a stitch point side; a moving knife rotated to the initial position, a thread catching position advanced from the initial position and the thread cutting position retreated from the thread catching position in order and serving to cut a bobbin thread and a needle thread in cooperation with the cutting knife in the thread cutting position; and a clamp member for interposing and holding the bobbin thread between the clamp member and the moving knife by an elastic force applied through an elastic deformation, the clamp member including a first interposing portion for interposing the bobbin thread between the first interposing portion and the moving knife when the moving knife is returned from the thread cutting position to the initial position. The moving knife includes a catching portion for catching the bobbin thread in the thread catching position. The clamp member includes a second interposing portion for interposing the bobbin thread in abutment on a first abutting portion provided on a tip side of the moving knife from the catching portion when the moving knife is placed in the thread cutting position. The bobbin thread interposed by the second interposing portion in the thread cutting position is transferred to the first interposing portion and is held by the first interposing portion with a movement of the moving knife to the initial position.

IPC 8 full level
D05B 65/06 (2006.01)

CPC (source: EP)
D05B 65/06 (2013.01)

Citation (search report)
• [XD] DE 102007045597 A1 20080403 - JUKI KK [JP]
• [A] US 5755170 A 19980526 - TAJIMA IKUO [JP], et al
• [A] JP H05245287 A 19930924 - BROTHER IND LTD
• [A] JP H07231993 A 19950905 - JUKI KK

Designated contracting state (EPC)
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)
AL BA ME RS

DOCDB simple family (publication)
EP 2241662 A2 20101020; EP 2241662 A3 20150325; EP 2241662 B1 20160727; CN 101864647 A 20101020; CN 101864647 B 20131211; JP 2010246706 A 20101104

DOCDB simple family (application)
EP 10159698 A 20100413; CN 201010148753 A 20100415; JP 2009098775 A 20090415