

Title (en)

Device with a gripper for changing a bobbin thread spool of a sewing machine

Title (de)

Vorrichtung mit einem Greifer zum Wechseln einer Unterfadenspule an einer Näh oder Stickmaschine

Title (fr)

Dispositif doté d'une poignée destiné à changer une cannette sur une machine à coudre ou à broder

Publication

**EP 2369047 A3 20120222 (DE)**

Application

**EP 11159418 A 20110323**

Priority

DE 102010003182 A 20100323

Abstract (en)

[origin: EP2369047A2] The changing device (1) has an opening finger, which is linked to the bobbin case (3) in a spring-elastic manner for loosening a fixation on a middle pin. The gripper (2) has a lever (4) for lifting the opening finger of the bobbin case for clearing the fixation. The lever fixes the bobbin case by clamping against a chute in the gripper. A pin tap (6) is provided at the gripper for engaging in a recess (7) of the bobbin case.

IPC 8 full level

**D05B 59/04** (2006.01)

CPC (source: EP)

**D05B 59/04** (2013.01)

Citation (search report)

- [XDAY] EP 0829565 A1 19980318 - KINOSHITA PRECISION IND CO LTD [JP], et al
- [Y] JP 2000176191 A 20000627 - JUKI KK, et al
- [YA] WO 0192623 A2 20011206 - MOLL PHILIPP [DE], et al
- [AD] WO 2005108666 A1 20051117 - MOLL PHILIPP [DE], et al
- [AD] US 6286444 B1 20010911 - SWANEY RAYMOND D [US]
- [A] EP 1722022 A1 20061115 - TOKAI IND SEWING MACHINE [JP], et al

Cited by

CN106222901A; CN108103688A; CN107059268A; CN109110268A; WO2020113769A1

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

DOCDB simple family (publication)

**EP 2369047 A2 20110928; EP 2369047 A3 20120222**; DE 102010003182 A1 20110929; DE 102010003182 B4 20111201

DOCDB simple family (application)

**EP 11159418 A 20110323**; DE 102010003182 A 20100323