

Title (en)

Hand controller unit, and sewing machine with embroidery function having hand controller unit

Title (de)

Handsteuerungseinheit und Nähmaschine mit Stickfunktion mit der Handsteuerungseinheit

Title (fr)

Unité manuelle de commande et machine à coudre à fonction de broderie à unité manuelle de commande

Publication

**EP 2540894 A1 20130102 (EN)**

Application

**EP 12173678 A 20120626**

Priority

JP 2011145344 A 20110630

Abstract (en)

A hand controller unit (20) attached to an embroidery frame (11) and changing a stitch width or a sewing speed while a sewing machine (1) is being operated includes a controller position setting unit (50) which is movable relative to the embroidery frame and is configured to be fixed at a desired position.

IPC 8 full level

**D05B 19/14** (2006.01); **D05B 39/00** (2006.01); **D05C 11/06** (2006.01)

CPC (source: EP)

**D05B 19/14** (2013.01); **D05B 39/00** (2013.01); **D05C 11/06** (2013.01)

Citation (applicant)

JP 2002028390 A 20020129 - AISIN SEIKI

Citation (search report)

- [A] US 4408242 A 19831004 - NISHIDA KOJI [JP], et al
- [ED] EP 2492386 A1 20120829 - AISIN SEIKI [JP]
- [A] WO 2009031780 A1 20090312 - SEO MYUNGWON [KR]
- [A] US 4672904 A 19870616 - KATO KENJI [JP], et al
- [A] US 6119611 A 20000919 - TOMITA SHINTARO [JP]
- [A] US 4932342 A 19900612 - HISATAKE MICHIO [JP], et al

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 2540894 A1 20130102**; **EP 2540894 B1 20140716**; JP 2013009894 A 20130117; JP 5884315 B2 20160315

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