

Title (en)

Cloth feed adjusting device of sewing machine

Title (de)

Vorschubeinstellvorrichtung einer Nähmaschine

Title (fr)

Dispositif de réglage de l'entraînement de l'ouvrage d'une machine à coudre

Publication

**EP 2617884 B1 20140813 (EN)**

Application

**EP 13151760 A 20130118**

Priority

JP 2012007756 A 20120118

Abstract (en)

[origin: EP2617884A1] A cloth feed adjusting device of a sewing machine includes a turning unit (86) configured to change a stitch pitch, a cam member (78, 79) configured to change a rotation angle of the turning unit, first and second adjusting members (76, 77) configured to set a rotation angle of the cam member, and a pitch switching actuator (80) configured to switch a contacting state between a cam portion (781, 791) and contact portions (731, 741) of the turning unit. The cam portion is formed such that a forward feed adjusting portion (785, 795) for adjusting a forward feeding pitch and a backward feed adjusting portion (786, 796) for adjusting a backward feeding pitch face each other and have a border at an intermediate position (784, 794) at which a stitch pitch becomes 0. The cloth feed adjusting device includes a feed direction switching actuator (81) configured to moves the contact portion between the forward feed adjusting portion and the backward feed adjusting portion to switch a stitch direction, and a control unit (90) configured to drive, at the time of starting the operation of the pitch switching actuator, the feed direction switching actuator in a range in which the stitch direction is not switched.

IPC 8 full level

**D05B 27/02** (2006.01)

CPC (source: EP KR)

**D05B 27/02** (2013.01 - EP); **E05D 15/063** (2013.01 - KR); **E06B 3/4663** (2013.01 - KR); **E05Y 2201/688** (2013.01 - KR); **E05Y 2600/626** (2013.01 - KR); **E05Y 2900/20** (2013.01 - KR)

Cited by

CN112779690A; DE102015207996B3; CN112779685A; CN110130003A; CN111979653A; CN106012337A; CN111379092A; CN112127059A; CN112899897A; DE102015207998B3; EP3088591A1; CN106087274A; TWI689641B

Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 2617884 A1 20130724**; **EP 2617884 B1 20140813**; CN 103215756 A 20130724; JP 2013146326 A 20130801; JP 5940307 B2 20160629; KR 101912354 B1 20181026; KR 20130085003 A 20130726; TW 201341620 A 20131016; TW I563139 B 20161221

DOCDB simple family (application)

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