

Title (en)

Cloth cutting device of hole stitching machine

Title (de)

Stoffschneidevorrichtung einer Lochstopfmaschine

Title (fr)

Dispositif de découpe du tissu pour machine à coudre les boutonsnières

Publication

EP 2166142 A1 20100324 (EN)

Application

EP 09170893 A 20090922

Priority

JP 2008242382 A 20080922

Abstract (en)

A cloth cutting device (30) of a buttonholing machine (1) includes a knife (32), a knife receiver (31), a moving mechanism (35) which moves the knife (32) or the knife receiver (31), a pulse motor (34) which serves as a drive source of the movement of the knife or the knife receiver, a rotation amount detector (55) which detects a rotation amount of the pulse motor, and a controller (50) which controls the pulse motor. The controller executes a control to switch the movement of the knife or the knife receiver to be low speed on its way, and includes a cutting control means (50c) which controls the pulse motor to stop driving if a deviation determining means determines that the deviation of the pulse motor reaches the set value, and a current control means (50c) which limits, during the low-speed movement, a current value applied to the pulse motor to be lower than that during a high-speed movement.

IPC 8 full level

D05B 3/06 (2006.01); **D05B 19/12** (2006.01); **D05B 37/00** (2006.01)

CPC (source: EP KR)

D05B 3/06 (2013.01 - EP KR); **D05B 3/08** (2013.01 - KR); **D05B 19/12** (2013.01 - EP); **D05B 37/00** (2013.01 - EP)

Citation (applicant)

- JP 2001334088 A 20011204 - JUKI KK
- JP 2002200377 A 20020716 - JUKI KK

Citation (search report)

- [A] US 5361713 A 19941108 - SUZUKI HIROYUKI [JP]
- [E] DE 102009017449 A1 20091008 - JUKI KK [JP]
- [E] DE 102009016476 A1 20091001 - JUKI KK [JP]
- [E] DE 102009015912 A1 20091022 - JUKI KK [JP]
- [AD] JP 2001334088 A 20011204 - JUKI KK

Cited by

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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 RS

DOCDB simple family (publication)

EP 2166142 A1 20100324; **EP 2166142 B1 20110316**; AT E502149 T1 20110415; CN 102021765 A 20110420; CN 102021765 B 20130213; DE 6020090000904 D1 20110428; JP 2010069205 A 20100402; KR 20100033944 A 20100331

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