

Title (en)
Cloth feeding device of sewing machine

Title (de)
Stoffzuführvorrichtung einer Nähmaschine

Title (fr)
Dispositif de transfert de textile dans une machine à coudre

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Application
EP 10190803 A 20101111

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JP 2009257658 A 20091111

Abstract (en)
The invention relates to a cloth feeding device of a sewing machine. The cloth feeding device includes a feed dog (101) configured to feed a workpiece in a horizontal direction (X), a horizontal feeding shaft (104) configured to rotate about its axis in a reciprocating manner to move the feed dog (101) back and forth, a transmission mechanism (106-109, 20) configured to convert a rotation of a driving shaft of the sewing machine into the rotating motion of the horizontal feeding shaft (104) such that an amount of rotation of the horizontal feeding shaft (104) is adjustable, a feeding amount adjusting mechanism (10), and a forward-reverse switching means for switching the workpiece feeding direction between a forward feeding direction and a reverse feeding direction. The feeding amount adjusting mechanism (10) has a feed adjusting dial (44, 64) operable to set a cloth feeding pitch, an abutting member (50, 70) configured to linearly move in accordance with a rotating operation of the feed adjusting dial (44, 64), and a feed adjusting member (42, 62) having a cam face (42a, 62a) on which a distal end of the abutting member (50, 70) abuts. The feed adjusting member (42, 62) is coupled to the transmission mechanism (106-109, 20) and rotatably supported by a sewing machine frame. The cam face (42a, 62a) of the feed adjusting member (42, 62) is continuously smooth and flat.

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Citation (applicant)
• JP 2007202667 A 20070816 - JUKI KK
• JP 2001212387 A 20010807 - JUKI KK

Cited by
CN108532135A; CN105155141A; EP2617884A1; EP3088591A1; CN106087274A; TWI706063B

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