

Title (en)
INDUSTRIAL SEWING MACHINE

Title (de)
INDUSTRIELLE NÄHMASCHINE

Title (fr)
MACHINE A COUDRE INDUSTRIELLE

Publication
EP 0950135 A1 19991020 (EN)

Application
EP 97940468 A 19970905

Priority
NL 9700509 W 19970905

Abstract (en)
[origin: WO9913147A1] An industrial sewing machine for the completion of a button hole (1) comprises a needle holder (20) that is connected via an arm (21) to means which ensure a forward and backward motion perpendicular to the direction of the needle. The aforementioned means bring an extremity (22) of the arm turned away from the needle holder into a forward and backward motion perpendicular to the direction (23) of the arm. The arm carries a cam (24) which slides in a fitting manner in a groove (25) of a first body (26) that in itself slides in a groove (32) of a further body (33) which is connected to a fixed portion (100) of the device. Because the first and further groove (25, 32) extend under a non-perpendicular angle to the direction of the arm, the arm is forced to move to and fro. The amplitude of the motion is proportional to the cosine of the angle of the groove and eventually determines the stitch bite of the needle, which width is thereby easily adjustable by means of the pivotably suspended first body (26). The cutting space may be adjusted by sliding the first body (25) within the groove of the further body (33).

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