

Title (en)

Method and device for regulating the work-transporting means in a sewing or embroidery machine

Title (de)

Verfahren und Vorrichtung zum Regeln des Stofftransportes bei einer Näh- oder Stickmaschine

Title (fr)

Procédé et dispositif pour réguler le transport de l'ouvrage dans une machine à coudre ou à broder

Publication

EP 1321556 A3 20041215 (DE)

Application

EP 02405896 A 20021021

Priority

CH 23172001 A 20011219

Abstract (en)

[origin: EP1321556A2] Traverse (27) of the fabric in the x and y directions on a sewing or embroidery machine is controlled through a fabric movement sensor (32) and arranged so that any deviations from the required movement are corrected over a number of successive sewing steps or conveying cycles. The central control unit (13) uses the sensor signals in step with the conveying cycles and carries out a summation according to a prearranged program. <??>Also claimed is the arrangement of a sensor (32) below the stitch plate (21) to provide data on fabric movement. The sensor can be a CCD matrix or miniature camera with image processing facilities. The sensor operates through a protective window (36) near the needle hole (23) and includes a light source. The fabric is held against the window by a presser foot or roller.

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IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- [DA] DE 3525028 A1 19870122 - PFAFF IND MASCH [DE]
- [A] US 4777896 A 19881018 - NOMURA ETSUZO [JP]
- [A] US 4757773 A 19880719 - NOMURA ETSUZO [JP], et al

Cited by

EP2045386A1; EP1997945A1; CN107059260A

Designated contracting state (EPC)

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