Title (en)

Needle thread guide device for double chain stitch sewing machine

Title (de)

Nadelfadenleitvorrichtung für eine Doppelkettenstichnähmaschine

Title (fr)

Mécanisme de guidage du fil d'aiguille pour une machine à coudre à point de chainette double

Publication

EP 1113100 B1 20050928 (EN)

Application

EP 00127921 A 20001220

Priority

JP 37741199 A 19991230

Abstract (en)

[origin: EP1113100A2] A needle thread guide device for double ring stitch sewing machine is used for the case that a double ring stitch is formed by forming a plurality of needle thread loops below a fabric and allowing a looper to successively enter these needle thread loops. The needle thread guide device has a cam (8c) which is formed at a location near a thread receiving surface (8a) of a needle thread guide (8), so as to be integral with the needle thread guide (8). The cam applies a tensile force, immediately before a looper enters, to a needle thread loop (6Lr) of a left needle thread (6L) which the looper enters finally in plural needle threads (6R, 6L) being received and supported on the thread receiving surface (8a) of the needle thread guide (8), as a movable needle thread take-up (3) rocks upward relative to rising movement of right and left needles (1R, 1L) from a bottom dead point. With this construction, it is avoided that the looper erroneously enters the plural needle thread loops, and a predetermined stitch is therefore formed reliably without causing skip-stitch. <IMAGE>

IPC 1-7

D05B 51/00; D05B 47/04

IPC 8 full level

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CPC (source: EP)

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EP 1113100 A2 20010704; **EP 1113100 A3 20020417**; **EP 1113100 B1 20050928**; CN 1116462 C 20030730; CN 1301890 A 20010704; DE 60022852 D1 20060209; DE 60022852 T2 20060622; JP 2001187290 A 20010710; JP 4296560 B2 20090715; TW I228161 B 20050221

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