

Title (en)

FILAMENT-SHAPED CONNECTION BODY CONNECTION METHOD AND DEVICE

Title (de)

VERFAHREN UND VORRICHTUNG ZUM KUPPELN BANDFÖRMIGER VERBINDER

Title (fr)

PROCEDE ET DISPOSITIF DE CONNEXION D'UN CORPS DE CONNEXION EN FORME DE FILAMENT

Publication

EP 1099637 A4 20020403 (EN)

Application

EP 99901920 A 19990129

Priority

JP 9900396 W 19990129

Abstract (en)

[origin: EP1099637A1] A method and device for simple and sure connection of a filament-shaped connecting body, comprising forwardly feeding a collecting body of a multiplicity of filament-shaped connecting bodies L comprising a filament part f, a head h and a joining part k into a join groove 6b and a head groove 6a, which are provided on a side of a body 2, from rearwardly of the body 2, receiving the head h into a head support part 4d of a head conveying arm 4, causing the head h to approach a tip end of a hollow needle 5 along a predetermined path from a position spaced from the hollow needle 5, simultaneously causing a rod 10 of a piston 9 to force the joining part k into the hollow needle 5 to fit the same into a latch hole b of the head h to connect the filament part f in a ring-shaped configuration. <IMAGE>

IPC 1-7

B65C 7/00; **B65B 13/18**

IPC 8 full level

B65B 13/02 (2006.01); **B65B 13/18** (2006.01); **B65C 7/00** (2006.01)

CPC (source: EP)

B65B 13/027 (2013.01); **B65C 7/005** (2013.01)

Citation (search report)

- [XA] US 5501002 A 19960326 - FUKAMI SYOICHI [JP]
- [A] US 4536933 A 19850827 - FURUTSU AKIRA [JP]
- [A] US 5738265 A 19980414 - HIRAI TOMOYUKI [JP], et al
- See references of WO 0044628A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 1099637 A1 20010516; **EP 1099637 A4 20020403**; **EP 1099637 B1 20030813**; DE 69910401 D1 20030918; DE 69910401 T2 20040701; ES 2200495 T3 20040301; JP 3710123 B2 20051026; WO 0044628 A1 20000803

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