

Title (en)

METHOD OF PIERCING SPUN YARN AND KNITTING INCLUDING PIERCING OF YARN

Title (de)

VERFAHREN ZUM SPALTEN VON FASERGARN UND WIRKEN EINSCHLIESSLICH DES SPALTENS VON GARN

Title (fr)

PROCEDE DE PERCAGE D'UN FILE ET TRICOTAGE INCORPORANT LE PERCAGE D'UN FILE

Publication

**EP 1857395 A4 20090408 (EN)**

Application

**EP 06713009 A 20060203**

Priority

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- JP 2005031308 A 20050208

Abstract (en)

[origin: EP1857395A1] An object of the invention is to increase quality and aesthetic appearance by eliminating the formation of knots in piecing spun yarn and the mixing of colors and the projection of end yarn. Tip end sides (11a, 12a) of two spun yarns (11, 12) are turned back in the shape of "J", and opposed to each other so that turned-back portions (11b, 12b) can be linked to each other. The tip end sides (11a, 12a) are intertwined to the base end sides (11c, 12c) of the turned-back portions (11b, 12b) so as to be joined to each other. Since, the tip end sides (11a, 12a) of the spun yarns (11, 12) are intertwined to the base end sides (11c, 12c) of the turned-back portions (11b, 12b) so as to be joined to each other, and the intertwining is performed within the spun yarns (11, 12), piecing can be securely performed irrespective of the type of a mating material. Since no knot is formed, the possibility can be lowered that a portion of knitting yarns becomes an obstacle when forming stitches, or is caught on a knitting needle and breaks the yarns. Since the yarns are linked to each other at the turned-back portions (11b, 12b), color mixture is not caused even when the colors of the yarns are different from each other, and thus quality and appearance can be improved.

IPC 8 full level

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Citation (search report)

- [X] DE 4014732 A1 19911114 - RIETER AG MASCHF [CH]
- [A] US 5479769 A 19960102 - BELLOY JEAN [FR], et al
- [A] EP 1384696 A1 20040128 - MURATA MACHINERY LTD [JP]
- See references of WO 2006085486A1

Cited by

EP2042625A4

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