

Title (en)
PROCESS FOR WEAVING A RIBBON.

Title (de)
VERFAHREN ZUM WEBEN EINES BANDES.

Title (fr)
PROCEDE DE TISSAGE D'UN RUBAN.

Publication
EP 0510122 B1 19940608

Application
EP 91905645 A 19910308

Priority
• DE 4009455 A 19900323
• EP 9100439 W 19910308

Abstract (en)
[origin: WO9114814A1] Process for weaving a ribbon on a needle ribbon-weaving machine with two weft needles (26, 28) which work in opposite directions. In one embodiment of a process for manufacturing a ribbon, a middle part (1) is woven from a weft multithread and a weft monothread (12, 10), while two edge parts (5, 6) are woven from a single weft multithread (12). The ribbon has high transverse strength but the edges are soft. A main shed (39) for both weft needles (26, 28) is formed from the warp threads (3) of the middle part (1). A partial traverse shed (38), through which only the weft needle (28) for the multithread (12) is inserted, is formed for each of the two edge parts (5, 6). The heads (14) of weft loops which are interlaced with the edge part weft threads (8) are secured by a row of stitches (18) located at the outer side of the edge part. The heads (24) of weft loops which are interlaced only with the middle part weft threads (3) are secured by a row of stitches (20) located at the outer edge of the middle part (1) and on the inner edge of the adjacent edge part (5). In a second embodiment for weaving a ribbon with two weft needles working in opposite directions, the ribbon is woven by inserting both weft needles into a common shed. The heads (60, 66) of the weft loops inserted in opposite directions are secured by two rows of stitches (62, 68) each formed from an auxiliary thread and located at the two outer edges of the ribbon. This ribbon has no edge parts but is absolutely symmetrical, and it has outer edges which are protected by the two rows of stitches (62, 68) and are soft.

IPC 1-7
D03D 47/02; **D03D 13/00**; **D03D 35/00**

IPC 8 full level
D03D 47/04 (2006.01); **D03D 1/00** (2006.01); **D03D 13/00** (2006.01); **D03D 35/00** (2006.01); **D03D 47/02** (2006.01); **D03D 47/06** (2006.01)

CPC (source: EP US)
D03D 5/00 (2013.01 - EP US); **D03D 13/004** (2013.01 - EP US); **D03D 13/008** (2013.01 - EP US); **D03D 35/00** (2013.01 - EP US);
D03D 47/02 (2013.01 - EP US)

Designated contracting state (EPC)
AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)
WO 9114814 A1 19911003; AT E106958 T1 19940615; AU 643770 B2 19931125; AU 7455291 A 19911021; BR 9105980 A 19921013; CA 2081373 A1 19910924; CS 77591 A3 19920318; CZ 280143 B6 19951115; DE 4009455 A1 19910926; DE 59101879 D1 19940714; EP 0510122 A1 19921028; EP 0510122 B1 19940608; ES 2055597 T3 19940816; HU 9202486 D0 19930301; HU T65006 A 19940328; JP H05506890 A 19931007; LV 10318 A 19941020; LV 10318 B 19950820; PL 164661 B1 19940930; PL 289527 A1 19920210; US 5299603 A 19940405; ZA 912190 B 19911224

DOCDB simple family (application)
EP 9100439 W 19910308; AT 91905645 T 19910308; AU 7455291 A 19910308; BR 9105980 A 19910308; CA 2081373 A 19910308; CS 77591 A 19910322; DE 4009455 A 19900323; DE 59101879 T 19910308; EP 91905645 A 19910308; ES 91905645 T 19910308; HU 248692 A 19910308; JP 50540091 A 19910308; LV 920144 A 19921001; PL 28952791 A 19910321; US 92766492 A 19920831; ZA 912190 A 19910322