Title (en)

Yarn working machine, particularly embroidering machine with yarn changing apparatus.

Title (de)

Fadenverarbeitende Maschine, insbesondere Stickmaschine mit einer Faden-Wechseleinrichtung.

Title (fr)

Machine de façonnage de fil, en particulier machine à broder comportant un dispositif de changement de fil.

Publication

EP 0517045 B1 19950809 (DE)

Application

EP 92108650 A 19920522

Priority

DE 4118130 A 19910603

Abstract (en)

[origin: EP0517045A1] A yarn-working machine, especially an embroidery machine, is equipped with a yarn-joining device (11) which has a swirl chamber (12) having a compressed-air nozzle (13), in which two yarns (23, 24) of different colour which are used in succession are joined to one another as a result of the swirling of their filaments by means of compressed air. They are subsequently drawn out by the needle (7). <IMAGE>

IPC 1-7

D05C 11/16; B65H 69/00

IPC 8 full level

D05B 49/00 (2006.01); B65H 69/00 (2006.01); B65H 69/06 (2006.01); D05B 43/00 (2006.01); D05C 11/16 (2006.01)

CPC (source: EP US)

B65H 69/00 (2013.01 - EP US); D05C 11/16 (2013.01 - EP US); B65H 2701/31 (2013.01 - EP US); D05D 2207/04 (2013.01 - EP US); Y10S 112/02 (2013.01 - EP US)

Cited by

DE19525434C2; EP0644148A1; EP0591570A1; DE4331553A1; EP0643005A1; US5603462A; BE1013733A3; EP0999299A3; WO9615970A1; WO0228760A1

Designated contracting state (EPC)

AT CH DE ES FR GB GR IT LI PT

DOCDB simple family (publication)

EP 0517045 A1 19921209; EP 0517045 B1 19950809; AT E126284 T1 19950815; DE 4118130 A1 19921210; DE 59203182 D1 19950914; ES 2077916 T3 19951201; GR 3017779 T3 19960131; JP 3450354 B2 20030922; JP H05179560 A 19930720; KR 100222255 B1 19991001; TW 210365 B 19930801; US 5269244 A 19931214

DOCDB simple family (application)

EP 92108650 A 19920522; AT 92108650 T 19920522; DE 4118130 A 19910603; DE 59203182 T 19920522; ES 92108650 T 19920522; GR 950402881 T 19951018; JP 14168392 A 19920602; KR 920009534 A 19920602; TW 81104567 A 19920611; US 89353892 A 19920602