

Title (en)

Weft insertion system and method

Title (de)

System und verfahren zum eintragen eines schussfadens

Title (fr)

Système et procédé d'insertion de trame

Publication

EP 1473391 B1 20061108 (DE)

Application

EP 04405190 A 20040329

Priority

- EP 04405190 A 20040329
- EP 03405299 A 20030429

Abstract (en)

[origin: EP1473391A1] The nozzles (3, 4, 51a-c to 5na-c) are associated with switch-on points. A measured value is used to form a predictor value (XF) for the weft tip. When this reaches the switch-on point (xj) of the relevant air nozzle or nozzles, the controller (10) supplies compressed air to one or more nozzles. Nozzles include a main nozzle (3) and/or tandem nozzle (4) and one or more transfer nozzles supplied with compressed air. A similar strategy controls the transfer nozzles. The switch-on point corresponds to a position of the nozzle in the shed, groups of nozzles being operated similarly using this criterion. The predictor value includes a safety value which depends on the resolution of the measurement system, the air pressure response time at the nozzle and/or the velocity (vF) of the weft thread tip. Its value for thread tip position and/or velocity is formed from measured values from the current weft thread (2). Using a similar strategy, a switch-off point is allocated to the nozzles.

IPC 8 full level

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CPC (source: EP)

D03D 47/3033 (2013.01); **D03D 47/304** (2013.01); **D03D 47/34** (2013.01)

Cited by

EP2050847A1; CN107099919A; CN107034576A; DE102005004064A1; CN102953204A; US2023243075A1; US7654290B2; US7726351B2

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