

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)

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Cited by

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

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