

Title (en)

Throttle valve and weft insertion apparatus in a jet loom provided with the same

Title (de)

Drosselklappe und Schussfadeneintragsvorrichtung für eine Luftdüsenwebmaschine mit einer solchen Vorrichtung

Title (fr)

Papillon et dispositif d'insertion de trame pour un métier à jet pourvu d'un tel dispositif

Publication

EP 1201805 B1 20060823 (EN)

Application

EP 01125328 A 20011026

Priority

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- JP 2001123746 A 20010423

Abstract (en)

[origin: EP1201805A2] There is provided a high-precision throttle valve (60) that has a small loss of pressure and is capable of easily regulating a flow rate. Furthermore, there is provided a weft insertion apparatus in a jet loom provided with a throttle valve having such characteristics. The throttle valve of the present invention includes a valve hole (63) bored so as to be orthogonal to a fluid channel (62) and a valve body (64) inserted into the valve hole (63) so as to be rotatable about an axial center, in which a concave engraved portion whose depth is continuously varied in a circumferential direction is formed on a circumferential surface of the valve body (64) at a position corresponding to an opening of the fluid channel (62). Furthermore, a weft insertion apparatus in a jet loom of the present invention includes the throttle valve, and the fluid channel connects a compressed air source regulated for pressure in a jet loom to a nozzle for injecting the compressed air. <IMAGE>

IPC 8 full level

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CPC (source: EP KR)

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Cited by

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EP 1201805 A2 20020502; **EP 1201805 A3 20030507**; **EP 1201805 B1 20060823**; CN 1311179 C 20070418; CN 1351235 A 20020529; KR 100433883 B1 20040604; KR 20020033521 A 20020507; TW 507033 B 20021021

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