

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 A2 20020502 (EN)

Application

EP 01125328 A 20011026

Priority

- JP 2000329890 A 20001030
- JP 2001123746 A 20010423

Abstract (en)

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 1-7

D03D 47/30

IPC 8 full level

D03D 47/30 (2006.01)

CPC (source: EP KR)

D03D 47/30 (2013.01 - KR); **D03D 47/3053** (2013.01 - EP); **D03D 47/306** (2013.01 - EP)

Cited by

EP2345756A1; US7526993B2; WO2011086103A1

Designated contracting state (EPC)

BE IT

DOCDB simple family (publication)

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

DOCDB simple family (application)

EP 01125328 A 20011026; CN 01137591 A 20011030; KR 20010065353 A 20011023; TW 90126685 A 20011029