

Title (en)

Air supply apparatus for air jet loom

Title (de)

Lüftversorgungsvorrichtung für Düsenwebmaschine

Title (fr)

Dispositif d'alimentation en air pour métier à tisser à jet d'air

Publication

EP 1420095 A3 20050209 (EN)

Application

EP 03023924 A 20031021

Priority

JP 2002331025 A 20021114

Abstract (en)

[origin: EP1420095A2] The air supply apparatus includes a compressed air supply source (14); a first switching valve (30) connected with the compressed air supply source; at least one of first compressed air regulators (16, 58, 138, 140) connected with the first switching valve, in which at least one of the outflow quantity and the pressure of compressed air is set at a predetermined first set value; a second compressed air regulator (18, 68) connected with the compressed air supply source, wherein at least one of the outflow quantity and the pressure of compressed air is set at a second set value different from said first set value, the number of said second compressed air regulator being made equal to that of the first compressed air regulators; and a second switching valve (34, 62, 150, 152) connected with said first and second compressed air regulators, wherein the number of said second switching valves is made equal to or more than that of said first compressed air regulator. The second switching valve is connected with main nozzle (12, 50, 124, 126). The first switching valve is opened in a predetermined first period at the weft inserting time, and the second switching valve is opened in said first period as well as in the second period different from said first period. <IMAGE>

IPC 1-7

D03D 47/30

IPC 8 full level

D03D 47/30 (2006.01)

CPC (source: EP)

D03D 47/3033 (2013.01); **D03D 47/3053** (2013.01)

Citation (search report)

- [A] CH 626668 A5 19811130 - SULZER AG [CH]
- [A] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 09 31 July 1998 (1998-07-31)
- [PA] PATENT ABSTRACTS OF JAPAN vol. 2003, no. 12 5 December 2003 (2003-12-05)
- [A] DATABASE WPI Section Ch Week 199124, Derwent World Patents Index; Class F03, AN 1991-174292, XP002310552

Cited by

CN103256483A; EP1717360A3; EP1731645A3; US2023243075A1; US7726351B2; WO2006077063A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 1420095 A2 20040519; EP 1420095 A3 20050209; EP 1420095 B1 20070228; CN 101063248 A 20071031; CN 101067258 A 20071107; CN 1316086 C 20070516; CN 1500925 A 20040602; DE 60312107 D1 20070412; DE 60312107 T2 20071031; JP 2004162221 A 20040610

DOCDB simple family (application)

EP 03023924 A 20031021; CN 200310114365 A 20031114; CN 200610145529 A 20031114; CN 200610145530 A 20031114; DE 60312107 T 20031021; JP 2002331025 A 20021114