

Title (en)

WEFT INSERTION DEVICE FOR AIR JET LOOM

Title (de)

SCHUSSFADENEINTRAGSVORRICHTUNG FÜR LUFTDÜSENWEBMASCHINE

Title (fr)

DISPOSITIF D'INSERTION DE TRAME POUR MÉTIER À TISSER À JET D'AIR

Publication

**EP 4163428 A1 20230412 (EN)**

Application

**EP 22198458 A 20220928**

Priority

JP 2021166040 A 20211008

Abstract (en)

A weft insertion device for an air jet loom includes a plurality of supply devices. Each of the supply devices includes: one solenoid valve; and a distributor. The distributor includes: a main channel having an inlet end that is joined to the solenoid valve and an outlet end that is closed by an end wall; and a pair of branch channels each having an inlet end that is joined to the outlet end of the main channel and an outlet end that is connectable to a corresponding one of the sub-nozzles. Each of the branch channels is formed such that, when the weft insertion device is attached to the air jet loom, it faces in a direction having at least a component parallel to a front-rear direction of the air jet loom. The inlet of each of the branch channels communicates with the main channel such that it covers at least part of the end wall.

IPC 8 full level

**D03D 47/30** (2006.01)

CPC (source: EP)

**D03D 47/304** (2013.01); **D03D 47/306** (2013.01)

Citation (search report)

- [XA] DE 3336893 A1 19840426 - SAURER DIEDERICH SA [FR]
- [AD] JP 2003239160 A 20030827 - TOYOTA IND CORP
- [A] BE 1015312 A5 20050111 - TOYOTA JIDOSHOKKI KK [JP]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**EP 4163428 A1 20230412**; CN 115948842 A 20230411; CN 219991846 U 20231110; JP 2023056682 A 20230420

DOCDB simple family (application)

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