

Title (en)
MAIN NOZZLE FOR AIR JET LOOM

Title (de)
HAUPTDÜSE FÜR EINE LUFTDÜSENWEBMASCHINE

Title (fr)
BUSE PRINCIPALE POR UN MÉTIER À TISSER À JET D'AIR

Publication
EP 3023525 A1 20160525 (EN)

Application
EP 15192889 A 20151104

Priority
JP 2014233459 A 20141118

Abstract (en)
A main nozzle of an air jet loom, comprising a nozzle body (11); a yarn inlet pipe (12) mounted in the nozzle body (11) to allow introduction of a weft yarn (Y); a passage forming pipe (13, 91) cooperating with an outer peripheral surface of an end portion (23) of the yarn inlet pipe (12) to form a passage (32) of compressed air; an accelerator pipe (14) disposed downstream of the passage forming pipe (13, 91) to accelerate the weft yarn (Y); a first holder (36, 67, 77, 92, 113) holding the accelerator pipe (14); a brush (37) disposed in a passage of the compressed air between the passage forming pipe (13) and the first holder (36, 67, 77, 92, 113) to catch the weft yarn (Y) flowing back from the accelerator pipe (14); and a second holder (35, 60, 71, 90, 110) holding the brush (37) and the first holder (36, 67, 77, 92, 113), wherein the passage forming pipe (13) has an end (34, 70) extending from the nozzle body (11), and the second holder (35, 60, 71, 90, 110) is fixed to the end (34, 70).

IPC 8 full level
D03D 47/30 (2006.01)

CPC (source: EP)
D03D 47/3013 (2013.01)

Citation (applicant)
JP 2014177725 A 20140925 - TOYOTA IND CORP

Citation (search report)

- [IA] EP 2778268 A1 20140917 - TOYOTA JIDOSHOKKI KK [JP] & JP 2014177725 A 20140925 - TOYOTA IND CORP
- [IJ] EP 2226416 A1 20100908 - PROMATECH SPA [IT]
- [A] CN 201826108 U 20110511 - JIANGYIN XIANGDE TEXTILE CO LTD
- [A] JP S51124159 U 19761007

Cited by
EP3342910A1

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

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BA ME

DOCDB simple family (publication)
EP 3023525 A1 20160525; EP 3023525 B1 20200401; CN 105603618 A 20160525; CN 105603618 B 20171208; JP 2016098442 A 20160530; JP 6137133 B2 20170531

DOCDB simple family (application)
EP 15192889 A 20151104; CN 201510787687 A 20151117; JP 2014233459 A 20141118