

Title (en)
WEFT INSERTION DEVICE OF AIR JET LOOM

Title (de)
SCHUSSFADENEINTRAGSVORRICHTUNG EINER LUFTDÜSENWEBMASCHINE

Title (fr)
DISPOSITIF D'INSERTION DE TRAME D'UN MÉTIER À TISSER À JET D'AIR

Publication
EP 3981899 A1 20220413 (EN)

Application
EP 21196482 A 20210914

Priority
JP 2020170962 A 20201009

Abstract (en)
A weft insertion device of an air jet loom (1) includes a modified reed (40) having a weft yarn travel passage (41), a main nozzle (22) from which air is discharged toward an inlet (41a) of the weft yarn travel passage (41) to inject a weft yarn (11) into the weft yarn travel passage (41), and an inducing nozzle (60, 60a, 66) disposed in parallel with the main nozzle (22) and from which air is discharged to the inlet (41a) of the weft yarn travel passage (41). A timing at which air discharge from the inducing nozzle (60, 60a, 66) starts is prior to a timing at which air discharge from the main nozzle (22) starts.

IPC 8 full level
D03D 47/30 (2006.01)

CPC (source: EP)
D03D 47/3013 (2013.01); **D03D 47/3053** (2013.01)

Citation (applicant)
JP H0586544 B2 19931213 - HOSHIZAKI ELECTRIC CO LTD

Citation (search report)
• [A] BE 1024804 A1 20180703 - PICANOL NV [BE]
• [A] US 4735237 A 19880405 - TAKEGAWA YUJIRO [JP], et al

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

DOCDB simple family (publication)
EP 3981899 A1 20220413; **EP 3981899 B1 20230802**; CN 114318632 A 20220412; JP 2022062820 A 20220421

DOCDB simple family (application)
EP 21196482 A 20210914; CN 202111158409 A 20210928; JP 2020170962 A 20201009