

Title (en)
WEFT INSERTION DEVICE FOR RAPIER LOOM

Title (de)
SCHUSSFADENEINFÜHRUNGSVORRICHTUNG FÜR GREIFERWEBMASCHINEN

Title (fr)
DISPOSITIF D'INSERTION DE TRAME POUR MÉTIER À TISSER À LANCES

Publication
EP 3483318 A1 20190515 (EN)

Application
EP 18190371 A 20180823

Priority
JP 2017217224 A 20171110

Abstract (en)
A weft insertion device (1) for a rapier loom includes a yarn guide mechanism (50) including a holding device (51) that holds a tip portion of the flat yarn (Y) and that guides the flat yarn (Y) from a position above a movement path (P) of the rapier head (10, 10') to a position below the movement path (P) with respect to an up-down direction, the yarn guide mechanism (50) displacing, independently or in cooperation with the rapier head (10, 10'), the flat yarn (Y) in a direction parallel to a width direction of the rapier head (10, 10'). Immediately before weft insertion is started, the flat yarn (Y) is guided into a yarn inlet portion (11d, 11d') of the rapier head (10, 10') while the flat yarn (Y) is displaced by the yarn guide mechanism (50) in the width direction of the rapier head (10, 10').

IPC 8 full level
D03D 47/23 (2006.01)

CPC (source: EP)
D03D 47/236 (2013.01)

Citation (applicant)
JP 2012046835 A 20120308 - TOYOSU MACHINERY CORP

Citation (search report)
• [A] EP 0756027 A1 19970129 - TORAY INDUSTRIES [JP]
• [AD] JP 2012046835 A 20120308 - TOYOSU MACHINERY CORP

Cited by
BE1028436B1; US2023272562A1; US12012674B2; WO2021260490A1

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 3483318 A1 20190515; EP 3483318 B1 20200923; JP 2019085682 A 20190606; JP 6933957 B2 20210908; TW 201918599 A 20190516; TW I765117 B 20220521

DOCDB simple family (application)
EP 18190371 A 20180823; JP 2017217224 A 20171110; TW 107139278 A 20181106