Title (en)

GRIPPER ASSEMBLY FOR INSERTING THE WEFT YARN IN WEAVING LOOMS WITHOUT SHUTTLE

Title (de)

GREIFERANORDNUNG ZUM EINFÜHREN DES SCHUSSFADENS IN WEBMASCHINEN OHNE SCHIFFCHEN

Title (fr)

ENSEMBLE DE PINCES POUR INSÉRER LE FIL DE TRAME DANS DES MÉTIERS À TISSER SANS NAVETTE

Publication

EP 3701071 A1 20200902 (EN)

Application

EP 18804148 A 20181023

Priority

- IT 201700121914 A 20171026
- IT 2018050205 W 20181023

Abstract (en)

[origin: WO2019082222A1] A gripper assembly for inserting the weft yarn into looms without a shuttle, comprising a bringer gripper and a traction gripper. The bringer gripper comprises a main body (1) with a shaped end adapted to be fixed to a control element, a weft guide profile (2), a rocker arm (3) hinged on a rotation pin (4), a reaction spring (6) and a gripper pin (5) of the rocker lever (3), which is rotating about a vertical axis of the main body (1) of the gripper; the reaction spring (6) keeps the gripper pin (5) on one side and closes it at an opposite side to an inclined plane, so as to obtain an self-tightening condition. The traction gripper, which switches the yarn (7) in the center of the fabric with the bringer gripper, comprises a main body (10) with a shaped end, a central part, which includes a drive lever (12) for the opening or closing of a zone of gripping of the yarn (7), a longitudinally sliding rod (11), which has a slider (14) slidable in a hook-shaped portion 15), and an elastic blade (18) fixed to the slider (14), which opens simultaneously with the slider for releasing the yarn (7).

IPC 8 full level

D03D 47/23 (2006.01)

CPC (source: EA EP KR)

D03D 47/233 (2013.01 - EA EP KR); **D03D 47/236** (2013.01 - EA EP KR)

Citation (search report)

See references of WO 2019082222A1

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)

WO 2019082222 A1 20190502; CN 111356800 A 20200630; CN 111356800 B 20210618; EA 039748 B1 20220305; EA 202090837 A1 20200709; EP 3701071 A1 20200902; EP 3701071 B1 20210630; ES 2887778 T3 20211227; IT 201700121914 A1 20190426; JP 2021500487 A 20210107; JP 7291961 B2 20230616; KR 102554487 B1 20230711; KR 20200071093 A 20200618; MA 50462 A 20210407; MA 50462 B1 20210930; PT 3701071 T 20210916

DOCDB simple family (application)

IT 2018050205 W 20181023; CN 201880069626 A 20181023; EA 202090837 A 20181023; EP 18804148 A 20181023; ES 18804148 T 20181023; IT 201700121914 A 20171026; JP 2020522363 A 20181023; KR 20207013377 A 20181023; MA 50462 A 20181023; PT 18804148 T 20181023