

Title (en)

Weaving machine with a weft tensioning device

Title (de)

Webmaschine mit Schussfadenspannvorrichtung

Title (fr)

Machine à tisser avec dispositif d'application de tension pour trame

Publication

EP 2671987 B1 20150729 (EN)

Application

EP 12741917 A 20120201

Priority

- JP 2011019763 A 20110201
- JP 2012015959 A 20120127
- JP 2012052254 W 20120201

Abstract (en)

[origin: EP2671987A1] Provided is a weft tensioning device capable of applying the appropriate tension to a weft while limiting the amount of air consumption. A weft-gripping mechanism part (32) is arranged on the downstream side in the picking direction of a weft (Y) with respect to a picking passage (20) of a modified reed (16). In the weft-gripping mechanism part (32), the tip portion of the picked weft (Y) is inserted through an insertion passage (38), a weft-gripping pin (50) is capable of holding the tip portion of the weft (Y) together with an inner surface of the insertion passage (38), and an air cylinder mechanism (44) actuates the weft-gripping pin (50) to make it hold the tip portion of the weft (Y). Opposite thereto, a tensioning arm (64) is: fixed to a loom frame (26); comes into contact with the weft (Y) between the modified reed (16) and the weft-gripping mechanism part (32) when the tip portion of the weft (Y) is gripped by the gripping mechanism part (32) and the tensioning arm (64) swings in the beating direction of the modified reed (16); and applies pressure to the weft (Y) due to the relative displacement of the tensioning arm (64) with respect to the modified reed (16).

IPC 8 full level

D03D 47/30 (2006.01)

CPC (source: EP)

D03D 47/308 (2013.01)

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

DOCDB simple family (publication)

EP 2671987 A1 20131211; EP 2671987 A4 20140806; EP 2671987 B1 20150729; CN 103348045 A 20131009; CN 103348045 B 20150211; JP 2012177216 A 20120913; JP 5689827 B2 20150325; WO 2012105603 A1 20120809

DOCDB simple family (application)

EP 12741917 A 20120201; CN 201280007180 A 20120201; JP 2012015959 A 20120127; JP 2012052254 W 20120201