

Title (en)
WEFT TENSIONING DEVICE

Title (de)
SCHUSSFADENSPANNVORRICHTUNG

Title (fr)
DISPOSITIF D'APPLICATION DE TENSION POUR TRAME

Publication
EP 2671987 A4 20140806 (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)

Citation (search report)
• [YA] EP 1437431 A2 20040714 - TSUDAKOMA IND CO LTD [JP] & JP 2004218103 A 20040805 - TSUDAKOMA IND CO LTD
• [YA] US 2008135125 A1 20080612 - JENNE CHRISTOPH [CH]
• [Y] DE 3921033 A1 19891228 - TAGAWA KIKAI CO [JP] & JP H0214046 A 19900118 - TAGAWA KIKAI KK
• See references of WO 2012105603A1

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

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