

Title (en)

Tension detection apparatus for loom

Title (de)

Spannungserkennungsvorrichtung für eine Webmaschine

Title (fr)

Appareil de détection de tension pour métier à tisser

Publication

EP 2584079 A3 20131113 (EN)

Application

EP 12006669 A 20120924

Priority

JP 2011229500 A 20111019

Abstract (en)

[origin: EP2584079A2] A tension detection apparatus for a loom includes a tension detection roller (1) that extends in a weaving-width direction between a pair of loom frames (F) and around which warp yarns (T) or a woven cloth is wound, a tension detection lever (3) provided on at least one of the loom frames (F) and connected to an end portion of the tension detection roller (1) so as to support the end portion, and a tension detector (5) connected to the tension detection lever (3). The tension detection lever (3) includes a base portion (3a) and an arm portion (3c). The base portion (3a) is rotatably supported on the at least one of the loom frames (F) by means of a first shaft (7) that is parallel to the tension detection roller (1). The arm portion (3c) extends from the base portion (3a) and supports a second shaft (9) that supports the tension detection roller (1). The second shaft (9) extends in the weaving-width direction and is supported by the at least one of the loom frames (F), on which the tension detection lever (3) is supported, at a position different in the weaving-width direction from a position at which the second shaft (9) is supported by the tension detection lever (3).

IPC 8 full level

D03D 49/12 (2006.01)

CPC (source: EP)

D03D 49/12 (2013.01); **D03D 49/18** (2013.01)

Citation (search report)

- [AD] EP 1878821 A1 20080116 - TSUDAKOMA IND CO LTD [JP]
- [A] EP 0527705 A1 19930217 - TOYODA AUTOMATIC LOOM WORKS [JP]
- [A] FR 2450301 A1 19800926 - SULZER AG [CH]
- [A] EP 0547003 A1 19930616 - TOYODA AUTOMATIC LOOM WORKS [JP]

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WO2018073386A1; EP2937451A1; CN112363548A; CN112697330A; CN113882068A; DE102016220546B3; CN109844198A

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 2584079 A2 20130424; **EP 2584079 A3 20131113**; **EP 2584079 B1 20141203**; CN 103061011 A 20130424; CN 103061011 B 20150527; JP 2013087394 A 20130513; JP 5778544 B2 20150916

DOCDB simple family (application)

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