

Title (en)

Weft insertion method and weft insertion device of rapier loom

Title (de)

Verfahren und Vorrichtung zum Schussfadeneintrag für Greiferwebmaschinen

Title (fr)

Procédé d'insertion de trame et dispositif d'insertion de trame d'une machine à tisser à lances

Publication

EP 2184389 B1 20121205 (EN)

Application

EP 09013498 A 20091026

Priority

JP 2008286347 A 20081107

Abstract (en)

[origin: EP2184389A1] In a weft insertion device (1) of a rapier loom, to insert a weft (2) through a guide hole (4) at a tip end part of a weft guide lever (3) and to guide the weft (2) connected to a woven fabric (6) to a catchable position of a rapier head (7), the weft guide lever can reciprocate between first and second positions (P1: retreat position, P2: guide position).. The guide hole is located at the second position at start of weft insertion so that the rapier head catches the weft. Then, before beating up, the weft guide lever is driven to move the guide hole toward the first position, thereby markedly reducing bending of the warp and sliding thereof on a reed (12) etc. because of a positional relationship between the weft guide lever and the reed and preventing the weft from being damaged because of bending and sliding.

IPC 8 full level

D03D 47/00 (2006.01); **D03D 47/34** (2006.01); **D03D 47/38** (2006.01)

CPC (source: EP)

D03D 47/00 (2013.01); **D03D 47/34** (2013.01); **D03D 47/38** (2013.01)

Cited by

WO2018009119A1

Designated contracting state (EPC)

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 SE SI SK SM TR

DOCDB simple family (publication)

EP 2184389 A1 20100512; **EP 2184389 B1 20121205**; CN 101736493 A 20100616; CN 101736493 B 20130313; JP 2010111973 A 20100520; JP 5731098 B2 20150610

DOCDB simple family (application)

EP 09013498 A 20091026; CN 200910209218 A 20091102; JP 2008286347 A 20081107