

Title (en)
Warp bending device for loom

Title (de)
Kettfadenumlenkvorrichtung für Webmaschinen

Title (fr)
Dispositif de pliage de chaîne pour métier à tisser

Publication
EP 2902536 A1 20150805 (EN)

Application
EP 15152357 A 20150123

Priority
JP 2014018464 A 20140203

Abstract (en)
A warp bending device (20) is included in a loom that includes a dropper-type warp breakage detection device (6) disposed on a warp-let-off side of heald frames and which is set such that a time at which warp yarns (1), which are caused to perform a shedding motion by the heald frames, are set to a shed closed state differs from a beating time at which a weft yarn is beaten against a cloth fell by a reed. The warp bending device (20) includes a warp bending member (30) that is disposed between the dropper-type warp breakage detection device (6) and the heald frames in a warp direction and above or below a row of the warp yarns (1) in a vertical direction and that extends over a region of the row of the warp yarns (1) in a weaving-width direction, the warp bending member (30) being positioned such that the warp bending member (30) is in contact with one of an upper warp yarn row and a lower warp yarn row of the warp yarns (1) that are in a shed open state and bends a path of the one of the upper and lower warp yarn rows at least at the beating time.

IPC 8 full level
D03D 49/12 (2006.01); **D03D 51/24** (2006.01)

CPC (source: EP)
D03D 49/12 (2013.01); **D03D 51/24** (2013.01)

Citation (applicant)
• JP 2013083019 A 20130509 - TSUDAKOMA IND CO LTD
• JP S54131073 A 19791011 - TSUDAKOMA IND CO LTD

Citation (search report)
• [X] GB 1209828 A 19701021 - SULZER AG [CH]
• [X] US 4235260 A 19801125 - CHICHEVA SERAFIMA A [SU], et al
• [X] EP 2581477 A1 20130417 - TSUDAKOMA IND CO LTD [JP] & JP 2013083019 A 20130509 - TSUDAKOMA IND CO LTD
• [X] JP S4124368 Y
• [X] DE 102011080629 A1 20130214 - DORNIER GMBH LINDAUER [DE]

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 2902536 A1 20150805; CN 104818568 A 20150805; CN 104818568 B 20180529; CN 204455467 U 20150708; JP 2015145542 A 20150813; JP 6277006 B2 20180207

DOCDB simple family (application)
EP 15152357 A 20150123; CN 201510053688 A 20150202; CN 201520072521 U 20150202; JP 2014018464 A 20140203