

Title (en)
HEALD FRAME STAVE CONSTITUTED OF CARBON-FIBER-REINFORCED COMPOSITE MATERIAL, AND MOUNTING PART STRUCTURE FOR SIDE STAY

Title (de)
SCHAFTRAHMENSPROSSE AUS EINEM KOHLEFASERVERSTÄRKTEN VERBUNDWERKSTOFF UND ANBRINGUNGSTEILSTRUKTUR FÜR EINE SEITENSTÜTZE

Title (fr)
HARNAIS DE CADRE À LISSES CONSTITUÉ D'UNE MATIÈRE COMPOSITE RENFORCÉE PAR DES FIBRES DE CARBONE ET STRUCTURE DE PIÈCE DE MONTAGE POUR UNE CONTREFICHE LATÉRALE

Publication
EP 2653594 A1 20131023 (EN)

Application
EP 11848072 A 20111216

Priority
• JP 2010282285 A 20101217
• JP 2011079956 W 20111216

Abstract (en)
There are provided a heald frame stave made of carbon fiber reinforced composite material, and a side stay attaching part structure for coupling a frame stave and a side stay with each other, which can achieve speed-up and vibration-isolating property of a loom owing to weight reduction and high rigidity and can be assembled and disassembled easily. A heald frame stave 2 made of carbon fiber reinforced composite material is provided with both side plates 11a and 11b made of carbon fiber reinforced composite material, an upper plate 10a and a lower plate 10b made of carbon fiber reinforced composite material and coupling, along a longitudinal direction, upper ends of the both side plates 11a and 11b with each other and lower ends thereof with each other, and first metal-made bars 20 for attachment of a side stay 3 integrally attached on a lower face of the upper plate 10a at both end portions of the upper plate 10a in the longitudinal direction, respectively, wherein the upper plate 10a and the lower plate 10b are produced from unidirectional carbon fiber reinforced composite material and thicknesses thereof in a vertical direction perpendicular to the longitudinal direction are in a range of 5 mm or more to 20 mm or less.

IPC 8 full level
D03C 9/06 (2006.01)

CPC (source: EP)
D03C 9/0625 (2013.01); **D03C 9/065** (2013.01); **D03C 9/0675** (2013.01)

Cited by
EP3712308A1; IT201900004203A1

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 2653594 A1 20131023; **EP 2653594 A4 20180221**; CN 103314146 A 20130918; CN 103314146 B 20160629; JP 2012127041 A 20120705; JP 5769958 B2 20150826; WO 2012081735 A1 20120621

DOCDB simple family (application)
EP 11848072 A 20111216; CN 201180060022 A 20111216; JP 2010282285 A 20101217; JP 2011079956 W 20111216