

Title (en)
DEVICE AND METHOD FOR HANDLING WEAVING HARNESS ELEMENTS

Title (de)
VORRICHTUNG UND VERFAHREN ZUR HANDHABUNG VON WEBGESCHIRRELEMENTEN

Title (fr)
DISPOSITIF ET PROCÉDÉ DE MANIPULATION D'ÉLÉMENTS DE CHÂÎNES

Publication
EP 3754070 B1 20230607 (DE)

Application
EP 19180573 A 20190617

Priority
EP 19180573 A 20190617

Abstract (en)
[origin: WO2020254115A1] The present invention relates to a device and to a method for handling harness elements. The device comprises a first holding element and at least one additional holding element for harness elements. The first holding element and the at least one additional holding element are configured to be moved cyclically between a provision device and a receiving device. At least the first holding element is configured in such a manner that it can execute at least a part of its movement between the provision device and the receiving device while the at least one additional holding element does not move.

IPC 8 full level
D03J 1/14 (2006.01)

CPC (source: CN EP US)
D03J 1/14 (2013.01 - CN EP US)

Citation (opposition)
Opponent : Stäubli Sargans AG
• CH 685203 A5 19950428 - GIFU PREFECTURE [JP]
• WO 9205303 A1 19920402 - ZELLWEGER USTER AG [CH]
• GB 798232 A 19580716 - ZELLWEGER USTER AG
• EP 0421943 A1 19910410 - EL & M SRL [IT]
• FR 2930950 A1 20091113 - TOYOTA JIDOSHOKKI KK [JP]
• EP 1105558 B1 20021002 - STAEUBLI AG PFAEFFIKON [CH]
• EP 0539062 A1 19930428 - TEIJIN SEIKI CO LTD [JP]
• US 5448812 A 19950912 - WOLF MARKUS [CH], et al
• US 8562272 B2 20131022 - LENZ ERIC H [US]

Cited by
EP3754074B1

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 3754070 A1 20201223; EP 3754070 B1 20230607; EP 3754070 C0 20230607; CN 114008257 A 20220201; CN 114008257 B 20230721; ES 2951844 T3 20231025; JP 2022537112 A 20220824; JP 7511586 B2 20240705; US 11668028 B2 20230606; US 2022205148 A1 20220630; WO 2020254115 A1 20201224

DOCDB simple family (application)
EP 19180573 A 20190617; CN 202080044483 A 20200604; EP 2020065431 W 20200604; ES 19180573 T 20190617; JP 2021571782 A 20200604; US 202017619865 A 20200604