

Title (en)  
INTERLACING DEVICE AND YARN WINDER

Title (de)  
VERFLECHTVORRICHTUNG UND FADENWICKLER

Title (fr)  
DISPOSITIF D'ENTRELACEMENT ET ENROULEUR DE FIL

Publication  
**EP 4119708 A1 20230118 (EN)**

Application  
**EP 22181219 A 20220627**

Priority  
JP 2021115541 A 20210713

Abstract (en)  
A variation in flow rate of fluid between nozzles is suppressed in an interlacing device which is configured to interlace yarns. An interlacing device 13 includes nozzles 66 which are aligned in an arrangement direction and by which compressed air is ejected onto yarns Y and a supply passage 70 that is arranged to supply the compressed air to the nozzles 66. The supply passage 70 includes an inflow passage 42 which extends at least in the arrangement direction, a chamber 71 which is provided between the inflow passage 42 and the nozzles 66 in a flow direction of the compressed air and extends in the arrangement direction and in the height direction, and a bended passage 43 which is provided between the inflow passage 42 and the chamber 71 in the flow direction and connects a portion extending in the arrangement direction with a portion extending in a height direction. At least in the bended passage 43, at least one flow adjustment fin 72 is provided to extend in the height direction and to at least partially overlap with an opening 41f (entrance of the bended passage) when viewed in an extending direction in which the inflow passage 42 extends.

IPC 8 full level  
**D02J 1/08** (2006.01)

CPC (source: CN EP)  
**D02J 1/00** (2013.01 - CN); **D02J 1/08** (2013.01 - CN EP)

Citation (applicant)  
• JP 2016160550 A 20160905 - TMT MACHINERY INC  
• JP 2020020069 A 20200206 - TMT MACHINERY INC

Citation (search report)  
• [Y] CN 205313759 U 20160615 - YUASA YARN GUIDE ENG CO LTD  
• [Y] US 5211903 A 19930518 - REIFENHAEUSER HANS [DE]  
• [A] CN 207294966 U 20180501 - YUASA YARN GUIDE ENG CO LTD  
• [A] WO 0071791 A1 20001130 - INTERNAT MACHINERY SALES INC [US]  
• [A] EP 3064624 A1 20160907 - TMT MACHINERY INC [JP]  
• [A] EP 2065495 A2 20090603 - TMT MACHINERY INC [JP]  
• [A] DE 10122973 A1 20011122 - BARMAG BARMER MASCHF [DE]  
• [A] US 4633550 A 19870106 - MCALILEY JOHN E [US], et al  
• [A] DE 102007026929 A1 20071220 - TMT MACHINERY INC [JP]  
• [A] US 3324526 A 19670613 - THOMAS BURNS JOHN, et al  
• [A] US 5970593 A 19991026 - SEAR NICOLAS C [US]  
• [A] EP 2055818 A1 20090506 - TMT MACHINERY INC [JP]

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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4119708 A1 20230118**; CN 115613187 A 20230117; JP 2023012096 A 20230125

DOCDB simple family (application)  
**EP 22181219 A 20220627**; CN 202210683095 A 20220616; JP 2021115541 A 20210713