

Title (en)
AUTOMATICALLY-THREADING FIBER PLACEMENT HEAD

Title (de)
AUTOMATISCH GEWINDESCHNEIDENDER FASERPLATZIERUNGSKOPF

Title (fr)
TÊTE DE PLACEMENT DE FIBRE À INTRODUCTION AUTOMATIQUE

Publication
EP 4208330 A4 20240703 (EN)

Application
EP 20952639 A 20200903

Priority
US 2020049133 W 20200903

Abstract (en)
[origin: WO2022050942A1] A fiber placement head assembly for applying a plurality of composite tape segments on a mold that includes a fiber placement head configured to receive composite tape from a composite tape source and apply the composite tape to the mold. The assembly also includes one or more air-operating conveyors, coupled with the fiber placement head, each having an inlet that is configured to receive an end of composite tape from the composite tape source, an outlet configured to provide the end of composite tape to the fiber placement head, and one or more inline vacuum conveyors that are configured to receive compressed fluid from a source and direct the compressed fluid toward the outlet thereby transporting the end of the composite tape from the inlet to the outlet and into the fiber placement head.

IPC 8 full level
B29C 70/38 (2006.01); **B29C 31/04** (2006.01); **B29C 70/06** (2006.01); **B29C 70/50** (2006.01); **B65B 35/28** (2006.01); **B65H 51/10** (2006.01); **B65H 51/16** (2006.01); **B65H 57/12** (2006.01); **B65H 59/36** (2006.01); **B65G 51/00** (2006.01)

CPC (source: EP)
B29C 70/38 (2013.01); **B65H 51/10** (2013.01); **B65H 51/16** (2013.01); **B65H 59/36** (2013.01); **B65H 2701/37** (2013.01)

Citation (search report)

- [XA] US 2014182787 A1 20140703 - CAFFIAU JOHANN [FR], et al
- [XA] FR 3084278 A1 20200131 - CORIOLIS GROUP [FR]
- [XA] FR 3009827 A1 20150227 - DEUTSCH ZENTR LUFT & RAUMFAHRT [DE]
- [T] EXAIR: "EXAIR Heavy Duty Line Vac's superior performance", 26 August 2013 (2013-08-26), XP093151712, Retrieved from the Internet <URL:https://www.youtube.com/watch?v=-KsJuO7ouQE> [retrieved on 20240415]
- See references of WO 2022050942A1

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)
WO 2022050942 A1 20220310; CN 116018252 A 20230425; EP 4208330 A1 20230712; EP 4208330 A4 20240703; JP 2023545353 A 20231030

DOCDB simple family (application)
US 2020049133 W 20200903; CN 202080103799 A 20200903; EP 20952639 A 20200903; JP 2023514746 A 20200903