

Title (en)
DEVICE FOR PRODUCING INTERLACED KNOTS

Title (de)
VORRICHTUNG ZUM ERZEUGEN VON VERFLECHTUNGSKNOTEN

Title (fr)
DISPOSITIF POUR GÉNÉRER DES NOEUDS D'ENTRECROISEMENT

Publication
EP 2655710 A1 20131030 (DE)

Application
EP 11776724 A 20110929

Priority
• DE 102010055861 A 20101222
• EP 2011067043 W 20110929

Abstract (en)
[origin: WO2012084285A1] The invention relates to a device for producing interlaced knots in a multifilament thread. The device comprises a rotating nozzle ring having a circumferential guide groove and a plurality of nozzle bores opening radially into the base of the guide groove. A stationary pressure chamber, having a chamber opening and a compressed air connection, is associated with the nozzle ring, wherein by rotation of the nozzle ring the nozzle bores can be connected in turn to the chamber opening of the pressure chamber. In order to permit an intensive air treatment of the thread, the dimension of the chamber opening in the pressure chamber and the spacing of adjacent nozzle bores on the nozzle ring are designed such that as the nozzle ring rotates a plurality of nozzle bores are simultaneously connected to the chamber opening.

IPC 8 full level
D02J 1/08 (2006.01); **D02G 1/16** (2006.01)

CPC (source: EP US)
D02G 1/161 (2013.01 - EP US); **D02G 1/162** (2013.01 - EP US); **D02J 1/08** (2013.01 - EP US)

Citation (search report)
See references of WO 2012084285A1

Cited by
EP3564421A1; WO2019211092A1

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 2012084285 A1 20120628; CN 103261498 A 20130821; CN 103261498 B 20150819; DE 102010055861 A1 20120628; EP 2655710 A1 20131030; EP 2655710 B1 20141203; JP 2014503708 A 20140213; JP 5907991 B2 20160426; US 2013263414 A1 20131010; US 9027214 B2 20150512

DOCDB simple family (application)
EP 2011067043 W 20110929; CN 201180061737 A 20110929; DE 102010055861 A 20101222; EP 11776724 A 20110929; JP 2013545120 A 20110929; US 201313910541 A 20130605