

Title (en)

DEVICE AND METHOD FOR PRODUCING INTERWEAVING KNOTS

Title (de)

VORRICHTUNG UND VERFAHREN ZUM ERZEUGEN VON VERFLECHTUNGSKNOTEN

Title (fr)

DISPOSITIF ET PROCÉDÉ DE PRODUCTION DE NOEUDS D'ENTRELACEMENT

Publication

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Application

**EP 11764512 A 20110922**

Priority

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- EP 2011066537 W 20110922

Abstract (en)

[origin: WO2012072297A1] The invention relates to a device and a method for producing interweaving knots in a multifilament thread. The thread is guided in a circumferential guiding groove of a rotating annular nozzle in contact with the groove base of the guiding ring. The annular nozzle is guided on a stationary stator that has a chamber opening on the circumference, said opening being connected to a pressure chamber. A nozzle bore which opens into the guiding groove is provided within the annular nozzle, said bore interacting with the chamber opening when the annular nozzle rotates in order to generate a pressure impulse in the guiding groove. The thread is guided between an inlet thread guide and an outlet thread guide which are arranged on both sides of the annular nozzle, an opening angle of the chamber opening in the stator and a contact wrap angle of the thread in the guiding groove overlapping. According to the invention, the inlet thread guide and the outlet thread guide are arranged such that the contact wrap angle of the thread in the guiding groove of the annular nozzle is greater than the opening angle of the chamber opening on the stator. Thus, the thread is guided with contact before the pressure impulse is generated, said annular nozzle preferably being driven with a circumferential speed that is lower than the speed of the thread in order to influence the thread tension.

IPC 8 full level

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Citation (search report)

See references of WO 2012072297A1

Cited by

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