Title (en)
DEVICE AND METHOD FOR IN-LINE THREAD TREATMENT

Title (de)
VORRICHTUNG UND VERFAHREN ZUR INLINE-FADENBEHANDLUNG

Title (fr)
DISPOSITIF ET PROCÉDÉ DE TRAITEMENT EN LIGNE D'UN FIL

Publication
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Application
EP 16812049 A 20160616

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Abstract (en)
[origin: WO2016204687A1] A device and method for in-line treatment of a thread are disclosed. The device comprises treatment and fixation units located downstream a thread feeding unit. A thread consuming system comprising a thread consuming device, such as an embroidery machine and/or a weaving machine and/or a sewing machine and the device is also disclosed.

IPC 8 full level
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CPC (source: EP IL KR SE US)
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Citation (examination)
- JP 2008063680 A 20080321 - SHIRAITEX KK
- JP 2003342867 A 20031203 - KUWABARA HIDEO, et al
- JP H0770952 A 19950314 - SEIREN CO LTD
- DE 102008039735 A1 20100304 - HOFMANN KLAUS [DE]

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DOCDB simple family (publication)
WO 2016204687 A1 20161222; AU 2016280358 A1 20180201; AU 2016280358 B2 20210422; BR 112017027129 A2 20180814; BR 112017027129 B1 20230110; CA 2989761 A1 20161222; CA 2989761 C 20220524; CN 107849770 A 20180327; EA 039380 B1 20220120; EA 201890036 A1 20180629; EP 3310956 A1 20180425; EP 3310956 A4 20181205; EP 3310956 B1 20230607; EP 3310956 C0 20230607; HK 1252466 A1 20190524; IL 256358 A 20180228; IL 256358 B 20211031; JP 2018525548 A 20180906; JP 7034909 B2 20220314; KR 102579177 B1 20230914; KR 20180017201 A 20180220; MX 2017016495 A 20180706; PH 12017502340 A1 20180702; PL 3310956 T3 20231002; SE 1550841 A1 20161218; SE 540990 C2 20190219; UA 124727 C2 20211110; US 2018171520 A1 20180621

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