

Title (en)

DEVICE AND METHOD FOR HANDLING FRAGMENTS OF A BROKEN NEEDLE

Title (de)

VORRICHTUNG UND VERFAHREN ZUR HANDHABUNG VON BRUCHSTÜCKEN EINER GEBROCHENEN NADEL

Title (fr)

DISPOSITIF ET PROCÉDÉ DE MANIPULATION DE MORCEAUX D'UNE AIGUILLE BRISÉE

Publication

EP 3555354 A1 20191023 (DE)

Application

EP 17808464 A 20171201

Priority

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- EP 2017081264 W 20171201

Abstract (en)

[origin: WO2018108591A1] The invention relates to a device (40) and a method for handling fragments (10) of a broken needle (11), for example in the context of a needle exchange of a broken needle (11) for a new needle (17). The fragments (10) of the broken needle (11) are arranged in a container (16) in a predetermined position. An image (32) of the fragments (10) of the broken needle (11) is then recorded with the aid of a camera (23). The recorded image (32) is stored for documentation (32) at at least one storage location and/or analysed as to whether all the fragments (10) of the broken needle (11) are present. After recording the image (32), the container (16) is closed in order to avoid the fragments (10) of the needle (11) being lost away from the sewing workstation.

IPC 8 full level

D05B 81/00 (2006.01); **A41H 31/00** (2006.01)

CPC (source: EP US)

A41H 19/00 (2013.01 - EP US); **A41H 31/00** (2013.01 - EP); **D05B 91/12** (2013.01 - US); **A41H 31/00** (2013.01 - US); **B65D 85/24** (2013.01 - US); **D05B 81/00** (2013.01 - US); **D05D 2207/06** (2013.01 - US); **D05D 2305/36** (2013.01 - EP US); **D05D 2305/50** (2013.01 - EP US)

Citation (examination)

GROZ BECKERT: "Still searching or already stitching again?", ADVANCEMENTS IN MANUFACTURING TECHNOLOGIES CONFERENCE, 3 November 2016 (2016-11-03), pages 1 - 28, XP055944984, Retrieved from the Internet <URL:https://capoeira10.com/assets/presentations/advancements2016/RonRussellGrozBeckert_INH.pdf> [retrieved on 20220721]

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

DOCDB simple family (publication)

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DOCDB simple family (application)

DE 102016124293 A 20161214; CN 201780077105 A 20171201; EP 17808464 A 20171201; EP 2017081264 W 20171201; JO P20170194 A 20161214; JP 2019529207 A 20171201; US 201716468498 A 20171201