

Title (en)

Method and device for charging needle plates for felting machines

Title (de)

Verfahren und Einrichtung zum Bestücken von Nadelbrettern für Filzmaschinen

Title (fr)

Procédé et dispositif destinés à l'implantation de planches à pointes pour machines de feutrage

Publication

**EP 1953287 B1 20140115 (DE)**

Application

**EP 07002360 A 20070202**

Priority

EP 07002360 A 20070202

Abstract (en)

[origin: EP1953287A1] The needle insertion process is done on a machine which includes a filling device (51) which presents the needles in alignment with the perforations in the needle board. A multiple clamp is used for the manual insertion of the needles in rows of holes in the needle board (2). The process involves preparing the board, preparing the multiple clamp, fitting the needles and pressing the needle holders in.

IPC 8 full level

**D04H 18/00** (2012.01); **D04H 18/02** (2012.01)

CPC (source: EP KR US)

**D04H 17/00** (2013.01 - KR); **D04H 18/02** (2013.01 - EP KR US); **Y10T 29/49815** (2015.01 - EP US); **Y10T 29/49826** (2015.01 - EP US); **Y10T 29/49895** (2015.01 - EP US); **Y10T 29/49945** (2015.01 - EP US); **Y10T 29/49998** (2015.01 - EP US); **Y10T 29/53** (2015.01 - EP US)

Cited by

DE102013009267A1; DE202013105980U1; KR100976077B1; DE102011016755B3; CN105683435A; CN110835819A; CN117655209A; WO2015063328A1; US9909242B2; WO2012139761A1; US9963811B2; EP2233626A1

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