

Title (en)
NEEDLEBOARD

Title (de)
NADELBRETT

Title (fr)
PLANCHE A AIGUILLES

Publication
EP 3000923 A1 20160330 (DE)

Application
EP 15193801 A 20140313

Priority
• EP 15193801 A 20140313
• EP 14159491 A 20140313

Abstract (en)
[origin: CN104911857A] A method for homogenizing the stitching pattern in a needled fleece (6) requires a detector (22) which is arranged between a first needling device (2) and a second needling device (4) and detects areas in the fleece (6) where stitches are absent. Then the fleece (6) needled by the first needling device (2) is also needled in the second needling device (4), wherein at least one operating parameter or at least one structure parameter of the second needling device (4) is adapted specifically on the basis of the result of the detection of the absent-stitch areas, so that, during the further needling of the fleece (6) in the second needle machine (4), the absent-stitch areas are filled in a targeted manner.

Abstract (de)
Das Nadelbrett (14) umfasst Nadeln (16), die im Bereich des Nadelbretts (14) horizontal verschiebbar angeordnet sind. In einer bevorzugten Variante umfasst das Nadelbrett (14) hierzu eine Grundplatte (41), in der mehrere horizontal verlaufende Schlitze (42) angeordnet sind, und Nadelmodule (44), von denen jedes ein Trägerelement (46) aufweist. Jedes Trägerelement (46) weist eine oder mehrere Ausnehmungen (47) auf, in denen die Schäfte einer oder mehrerer Nadeln (16) eingebracht sind, wobei die Nadelspitzen aus den Ausnehmungen (47) herausragen. Die Nadelmodule (44) sind in den Schlitzen (42) horizontal verschiebbar angeordnet.

IPC 8 full level
D04H 18/02 (2012.01)

CPC (source: CN EP US)
D04H 1/46 (2013.01 - US); **D04H 18/02** (2013.01 - CN EP US)

Citation (applicant)
• EP 2138616 A1 20091230 - DILO KG MASCHF OSKAR [DE]
• EP 2138617 A1 20091230 - DILO KG MASCHF OSKAR [DE]

Citation (search report)
• [XY] JP H11350327 A 19991221 - BARIOMACHIKKU MACHINE KK
• [YD] EP 2138616 A1 20091230 - DILO KG MASCHF OSKAR [DE]
• [A] WO 2012107486 A1 20120816 - HI TECH TEXTILE HOLDING GMBH [AT], et al

Cited by
EP4202099A1

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)
EP 2918719 A1 20150916; EP 2918719 B1 20160914; CN 104911857 A 20150916; CN 104911857 B 20170606; CN 105401375 A 20160316; CN 105401375 B 20180925; EP 3000923 A1 20160330; US 2015259836 A1 20150917; US 2016069006 A1 20160310; US 9260806 B2 20160216; US 9567698 B2 20170214

DOCDB simple family (application)
EP 14159491 A 20140313; CN 201510109430 A 20150312; CN 201510796410 A 20150312; EP 15193801 A 20140313; US 201514640089 A 20150306; US 201514945705 A 20151119