

Title (en)
Needle board for a needle machine

Title (de)
Nadelbrett für eine Nadelmaschine

Title (fr)
Planche à aiguilles pour une aiguilleteuse

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EP 2138617 A1 20091230 (DE)

Application
EP 08171805 A 20081216

Priority
• EP 08011414 A 20080624
• EP 08012260 A 20080707
• EP 08171805 A 20081216

Abstract (en)
The needle board (6) comprises a base plate (16) having receptions (18), needles (8) arranged in the area of the receptions in a predetermined pattern, where tips of the needles protrude from the base plate, and needle modules (21), of which each is inserted into the reception of the base plate and has a group of needles. The needles of each group are formed with one another in a single-piece. Each group of the needles is formed from a sheet metal, and is punched. The receptions are formed as slits in the base plate. The needle modules have a protruding edge section. The needle board (6) comprises a base plate (16) having receptions (18), needles (8) arranged in the area of the receptions in a predetermined pattern, where tips of the needles protrude from the base plate, and needle modules (21), of which each is inserted into the reception of the base plate and has a group of needles. The needles of each group are formed with one another in a single-piece. Each group of the needles is formed from a sheet metal, and is punched. The receptions are formed as slits in the base plate. The needle modules have a protruding edge section, which lies on a recess in a wall area of the corresponding reception in the base plate. Each of the needle modules has a plastic carrier plate (22), which is fixedly connected with one group of the needles. Each carrier plate is cast or injected onto the group of the needles. The needles of the group of the needles are connected with one another at its foot region, and are arranged in a row. An independent claim is included for a method for producing a needle board for a needle machine.

Abstract (de)
Das erfindungsgemäße Nadelbrett (6) für eine Nadelmaschine weist eine Grundplatte (16) mit einer Mehrzahl von Aufnahmen (18) und eine Mehrzahl von Nadeln (8) auf, die in einem vorbestimmten Muster in den Aufnahmen (18) angeordnet sind und deren Spitzen aus der Grundplatte (16) hervorragen. Dabei weist das Nadelbrett (6) eine Mehrzahl von Nadelmodulen (21) auf, von denen jedes in eine Aufnahme (18) der Grundplatte (16) eingesetzt ist und mindestens eine Gruppe von Nadeln (8) aufweist, wobei die Nadeln (8) jeder Gruppe einstückig miteinander ausgebildet sind.

IPC 8 full level
D04H 18/00 (2012.01)

CPC (source: EP)
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Citation (applicant)
• GB 399104 A 19330928 - CHARLES JAMES WOODBURNE, et al
• LÜNENSCHLOSS; ALBRECHT: "Vliesstoffe", 1982, GEORG-THIEME-VERLAG STUTTGART, pages: 122 - 129
• ALBRECHT; FUCHS; KITTELMANN: "Vliesstoffe", 2000, WILEY-VCH VERLAG, pages: 270 FF

Citation (search report)
• [DA] GB 399104 A 19330928 - CHARLES JAMES WOODBURNE, et al
• [A] EP 1391546 A1 20040225 - DILO KG MASCHF OSKAR [DE]
• [A] DE 102005034144 B3 20061207 - DILO KG MASCHF OSKAR [DE]
• [A] US 3680182 A 19720801 - SCOTT PERRY E

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DE202014011288U1; EP2918719A1; EP3000923A1

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