Title (en)
   Cross-lapper

Title (de)
   Vliesleger

Title (fr)
   Etaleur-nappeur

Publication
   EP 1717357 A1 20061102 (DE)

Application
   EP 06004726 A 20060308

Priority
   DE 202005006840 U 20050427

Abstract (en)
   Non-wovens are cross-laid in a deposition zone (A) on a transverse conveyor (7) by two air-permeable depositing belts (5, 6) made of a textile material, which traverse across the conveyor. The belts are carried on pulleys mounted on reciprocating carriages (1, 2, 3, 4), the non-woven being supplied in a feed zone (B). In the deposition zone (B) the non-woven is covered by two smooth impermeable covering belts (9, 10) that are linked to the drive. In the deposition zone (B) the belts (5, 6) run over two additional rollers (11, 12), which, if desired, can be spaced to exert pressure on the non-woven in the gap. They can also be arranged to run momentarily faster than the turn-round rollers (20, 21) for the belts (5, 6). At the inlet, two pairs of rollers (16, 17, 18, 19) are arranged so that the belts (5, 6) form a V-shaped inlet funnel.

IPC 8 full level
   D01G 25/00 (2006.01); **D04H 1/74** (2006.01)

CPC (source: EP)
   D01G 25/00 (2013.01); **D04H 1/74** (2013.01)

Citation (applicant)
   • EP 0865521 B1 19990915 - AUTEFA MASCHINENFAB [DE]
   • EP 0517568 A1 19921209 - ASSELIN ETS [FR]
   • EP 0609907 A2 19940810 - HOLLINGSWORTH GMBH [DE]
   • WO 9115618 A1 19911017 - HOLLINGSWORTH GMBH [DE]

Citation (search report)
   • [X] EP 0398240 A1 19901122 - DU PONT [US]
   • [PA] EP 1612306 A1 20060104 - DILO KG MASCHF OSKAR [DE]
   • [A] US 3877628 A 19750415 - ASSELIN ROBERT, et al
   • [A] US 2004147384 A1 20040729 - LENK CHRISTIAN [CH]
   • [DA] EP 0865521 A1 19980923 - AUTEFA MASCHINENFAB [DE]
   • [A] EP 1367166 A1 20031203 - ASSELIN [FR]

Cited by
   IT201900008706A1; CN107034588A; EP1947223A1; CN109704266A; EP1975286A1; EP1959038A1; CN107043967A; CN110670244A; EP1870499A3; CN115404596A; US7480965B2

Designated contracting state (EPC)
   AT DE FR IT

Designated extension state (EPC)
   AL BA HR MK YU

DOCDB simple family (publication)
   EP 1717357 A1 20061102; **EP 1717357 B1 20080625**; AT E399220 T1 20080715; DE 202005006840 U1 20060831; DE 502006000967 D1 20080807

DOCDB simple family (application)
   EP 06004726 A 20060308; AT 06004726 T 20060308; DE 202005006840 U 20050427; DE 502006000967 T 20060308