

Title (en)  
Swinging arm cross-lapper

Title (de)  
Steilarm-vliesleger

Title (fr)  
Distributeur de voile à bras incliné

Publication  
**EP 1593761 A1 20051109 (DE)**

Application  
**EP 04008051 A 20040402**

Priority  
EP 04008051 A 20040402

Abstract (en)  
A fleece laying apparatus comprises a camel back cross lapper having an infeed zone, an output conveyor, a supply arm, a layering arm with a lower end reciprocatingly guided on a path above the output conveyor, and two delivery transport belts; and variable-volume web buffering apparatus upstream of the infeed zone and adapted to hold a web between two take-up transport belts. A fleece laying apparatus comprises a camel back cross lapper having an infeed zone, an output conveyor, a supply arm, a layering arm with a lower end reciprocatingly guided on a path above the output conveyor, and transverse to an output direction of the output conveyor, and two delivery transport belts guided in juxtaposed fashion from the infeed zone to the layering-arm lower end; and variable-volume web buffering apparatus upstream of the infeed zone and adapted to hold a web between two take-up transport belts, at least one of which is one of the two delivery transport belts, the web buffering apparatus including a movable common frame, and frame rollers rotatably mounted on the common frame, the frame rollers including a two-belt roller deflecting the take-up transport belts by 180° and  $\geq 2$  one-belt rollers, the common frame movable transverse the roller axes, at least one of the one-belt rollers wrapped by the one delivery transport belt, such belt guided through an upstream web take-up site to the infeed zone, where web is sandwiched between paired belts for the entire path from the take-up site to the output conveyor.

Abstract (de)  
Ein Steilarm-Vliesleger hat zwei umlaufende Flortransportbänder (10, 11), die in einem sich wenigstens von der unteren Schwenkachse (4) eines Zuführarms (2) bis zum unteren, freien Ende des Legearms (3) erstreckenden, hinlaufenden Wegabschnitt parallel zueinander in einem aneinandergedrückten Zustand geführt sind und in diesem Wegabschnitt einen Klemmbereich für die Florbahn ausbilden, der in einem Lieferspalt (bei 16, 17) am unteren, freien Ende des Legearms (3) endet. Von dort ausgehend erstrecken sie sich in zueinander entgegengesetzten Richtungen quer über die Ablieferzone eines Abliefer-Transportbandes (6) in engem Abstand zu diesem und decken die Ablieferzone ab. Sie sind dann jeweils bis zu einer Umkehrwalze (19, 29) geführt sind, von wo aus die Flortransportbänder (10, 11) über den Legearm (3) und den Zuführarm (2) bis zur Speisezone (A) rückgeführt sind. Die Umkehrwalzen (19, 29) sind in einem gemeinsamen Schlitten (20) gelagert, der unterhalb des Abliefer-Transportbandes (6) angeordnet und quer zu diesem verfahrbar ist. <IMAGE>

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**D01G 25/00**

IPC 8 full level  
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CPC (source: EP US)  
**D01G 25/00** (2013.01 - EP US)

Citation (search report)  
• [A] US 5007623 A 19910416 - UNKURI MATTI [FI], et al  
• [A] US 3222730 A 19651214 - FRANK KALWAITES  
• [A] US 5590442 A 19970107 - HIRSCHK HERWIG [DE], et al  
• [A] EP 0528348 A1 19930224 - RADEX HERAKLITH [AT]

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