

Title (en)
Dewatering band for paper machines

Title (de)
Entwässerungsband für Papiermaschinen

Title (fr)
Bande de séchage pour machines à papier

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Abstract (en)

The continuous blanket (1) for a papermaking machine, where water is extracted from the pulp, is composed of a number of lateral plate-shaped bodies (2) linked together by flexible strands (9) which lie along the length of the belt (1). The strand ends are anchored in end pieces (5,6), which are coupled together to form the continuous blanket (1). The end pieces are end bars (5,6), extending over the whole width of the blanket (1). The connecting strands (9) extend over the whole length of the blanket. Each flat body (2) has at least two connecting strands (9) through it. The bodies (2) are in lateral rows, offset against each other, so that the connecting strands pass through the offset bodies (2) in neighboring lateral rows. The bodies (2) have geometric shapes, fitting together as a jigsaw puzzle, as polygons and especially hexagons. They can also have a cross shape. The bodies can be flat rods, assembled to form lateral rows in the blanket with an offset so that the gaps in one row are bridged by the adjacent row. The bodies are strung loosely on the connecting strands, or they are bonded to them by adhesion or pressure. The bodies can have bending hinges, laterally across the blanket. The blanket end pieces (5,6) have eyelet passage channels to take a coupling wire (12) through them when they are in alignment. The end pieces (5,6) have passage openings where water can flow through. The end pieces and/or bodies form two complementary half-sections which are joined together, held by the connecting strands. Each half-section has half-channels on their facing sides to form passages for the connecting strands. The half-sections have couplings for an interlock, or they are bonded together by hot sealing or an adhesive.

Abstract (de)

Die Erfindung bezieht sich auf ein Entwässerungsband (1), insbesondere als Trockensieb für Papiermaschinen, welche aus einer Vielzahl von plättchenförmigen Flachkörpern (2) zusammengesetzt ist, die zur Einstellung der Durchlässigkeit Durchgangsöffnungen aufweisen und/oder zwischen sich Lücken freilassen, wobei die Flachkörper über biegsame Verbindungsstränge (9), die die Flachkörper durchdringen, untereinander derart gekuppelt sind, daß die im Betrieb auf das Entwässerungsband wirkenden Längskräfte auf sie einwirken. Das Entwässerungsband ist dadurch gekennzeichnet, daß die Verbindungsstränge sich in Längsrichtung des Entwässerungsbands erstrecken und mit ihren Enden in Endstücken (5,6) verankert sind, welche miteinander kuppelbar sind. <IMAGE>

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Citation (search report)

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