

Title (en)
A METHOD OF MANUFACTURING A FIBROUS SUBSTRATE INCORPORATING AN ELONGATE ELEMENT WITH A VARIABLE EDGE PROFILE

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES FASERSTOFFSUBSTRATS MIT EINGEBETTETEM STREIFEN VARIABLER BREITE

Title (fr)
PROCEDE DE FABRICATION DE SUBSTRAT FIBREUX INCORPORANT UN ELEMENT EFFILE A PROFIL D'ARETE VARIABLE

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Application
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Abstract (en)
[origin: WO2004050990A1] This invention is directed to improvements in manufacturing substrates, such as paper, incorporating an elongate impermeable element and a substrate made therefrom. The method comprises the steps of bringing an elongate flexible impermeable element (13) into contact with drainage restriction means (12) provided on a moving support surface (10), depositing fibres onto the support surface (10) to form a fibrous substrate, the deposition of fibres being carried out in such a manner that as the fibres are deposited onto the support surface the elongate element is incorporated in the substrate wherein, a first set of windows are formed in one surface of the substrate at the point of contact of the element with the drainage restricting portions, in which windows the elongate element (13) is at least partially exposed, wherein the elongate element (13) comprises a plurality of wide regions (15) separated by narrow regions (14), the wide regions (15) being of a width which obstructs the deposition of fibres on the said wide regions to form a second set of windows in an opposing surface of the substrate in which the elongate element is also at least partially exposed, the narrow regions (14) being such as to allow fibres to be deposited thereover to cause the narrow regions to be covered by the opposing surface of the fibrous substrate away from the substrate surface, wherein the first and second set of windows on the opposing sides of the substrate are fully registered such that they are coincident with each other.

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Citation (search report)
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Cited by
WO2011051905A1; US9902187B2; US9724955B2; WO2011092502A2

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