

Title (en)
Papermakers fabric with flat machine direction yarns

Title (de)
Papiermachergewebe mit flachen Längsfäden

Title (fr)
Toile pour papeterie ayant des fils dans le sens de la longueur de la machine à section droite aplatie

Publication
EP 0612882 B1 19981021 (EN)

Application
EP 94103975 A 19910315

Priority
• EP 91907325 A 19910315
• US 53416490 A 19900606
• US 56797490 A 19900815
• US 65400891 A 19910214

Abstract (en)
[origin: WO9119044A1] A papermakers fabric having a system of flat monofilament machine direction yarns (hereinafter MD yarns) which control the permeability of the fabric. The present weave provides for usage of high aspect ratio yarns as structural weave components. The system of MD yarns comprises upper and lower yarns which are vertically stacked. Preferably, the upper MD yarns define floats on the upper surface of the fabric and each upper MD yarn is paired in a vertically stacked orientation with a lower MD yarn. At least the upper MD yarns are flat monofilament yarns woven contiguous with each other to reduce the permeability of the fabric and to lock in the machine direction alignment of the stacking pairs of MD yarns. The stacked, contiguous woven machine direction system provides stability and permits the MD yarns to have a relatively high aspect ratio, cross-sectional width to height, of greater than 3:1. A seam for the fabric comprised of loops from selected flat MD yarns is provided to render the fabric endless during use in papermaking.

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D21F 1/00

IPC 8 full level
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CPC (source: EP)
D21F 1/0036 (2013.01); **D21F 1/0054** (2013.01); **D21F 7/083** (2013.01)

Cited by
US6079454A; EP1167623A1; CN104631189A; FR2789702A1; US6450213B1; AU756877B2; US7617846B2; WO0049223A1; WO9927181A1; WO2016124519A1; WO2008013653A1

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