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(54) Title: INTEGRATED PERMEATE CHANNEL MEMBRANE STRUCTURE

(57) Abstract: The current invention relates to a filtration membrane envelope (3) comprising a 3D spacer fabric (7) having an upper and lower surface (9, 10) tied together and spaced apart by monofilament threads (11), said 3D spacer fabric is interposed between two membrane layers, and forming a permeate channel (12), wherein said membrane layers are cast respectively on said upper and lower fabric surface of said 3D spacer fabric and wherein said upper and lower fabric surfaces are at least partially embedded in said membrane layers, thereby forming an upper and lower anchorage section (13, 14), characterized in that said anchorage section have a minimal thickness of 100 micron.

WO 2023/144409 A1