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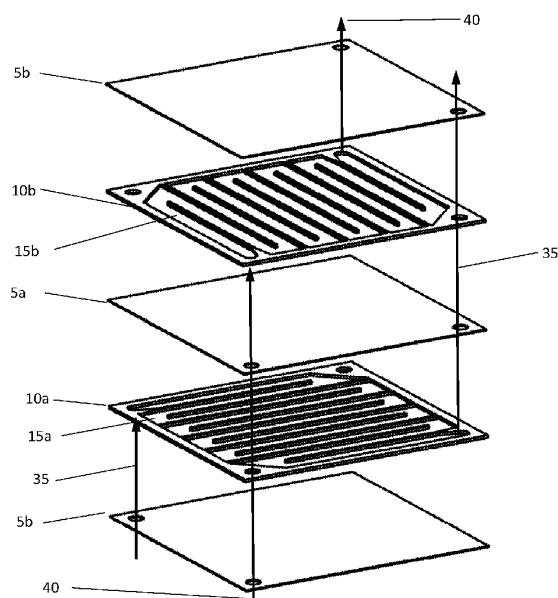
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(54) Title: SINGLE PASS ELECTRO-SEPARATION SYSTEM

Figure 2



(57) Abstract: There is provided a single pass electro-separation system for separating substantially all of a charged molecule from a fluid stream in a single pass, the system comprising an assembly adapted to be disposed between a cathode and an anode. The assembly comprises: at least a first, second, and third separation membrane each having defined pore sizes; a first spacer disposed between the first and second separation membranes and having a void extending from an inlet to an outlet to define a first fluid flow path for a first fluid stream between the first and second separation membranes; and a second spacer disposed between the second and third separation membranes and having a void extending from an inlet and an outlet to define a second fluid flow path for a second fluid stream between the second and third separation membranes

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