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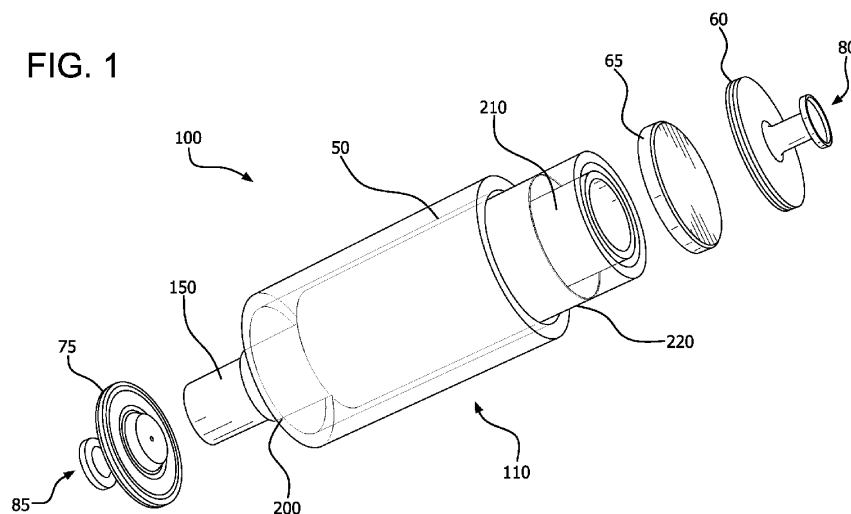
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(54) Title: AFFINITY CHROMATOGRAPHY DEVICES CONTAINING A FIBRILLATED POLYMER MEMBRANE AND MANIFOLDS CONTAINING THE SAME

FIG. 1



(57) Abstract: The present disclosure is directed to affinity chromatography devices including a fibrillated polymer membrane that contains inorganic particles having a spherical shape and a particle size distribution that has a D90/D10 less than or equal to 3. A blend or a combination of spherical inorganic particles may be utilized. A nominal particle size of the spherical inorganic particles is from about 5 microns to about 20 microns. An affinity ligand may be bonded to the spherical inorganic particles and/or to the fibrillated polymer membrane. Also, the affinity chromatography devices have a hydraulic permeability from about 100 ($\times 10^{-12} \text{ cm}^2$) to about 500 ($\times 10^{-12} \text{ cm}^2$). Additionally, the affinity chromatography devices have a cycling durability of at least 100 cycles without exceeding an operating pressure of 0.3 MPa. Manifolds containing multiple affinity chromatography devices in a parallel configuration and multiple manifolds in a parallel configuration are also disclosed.

[Continued on next page]

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