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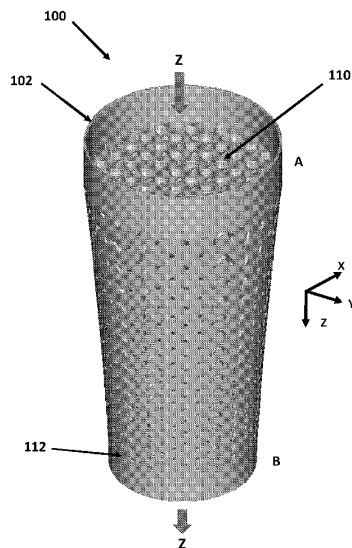


Figure 1

(57) Abstract: There is described a membrane comprising a feed flow inlet, a retentate flow outlet and a permeate flow outlet. The membrane further comprises a membrane interface portion comprising a plurality of feed flow channels fluidly connected to the feed flow inlet and to the retentate flow outlet, and a plurality of permeate flow channels fluidly connected to the permeate flow outlet, wherein the membrane interface portion is operable to allow for fluid communication between the feed flow channels and the permeate flow channels through a membrane portion. The membrane interface portion comprises a reduction in a dimensional property from toward the feed flow inlet to toward the retentate flow outlet so that the membrane interface portion is operable to produce a higher cross-flow velocity at the membrane portion toward the retentate flow outlet. Also provided is a water treatment module comprising the membrane and a process for making the membrane.

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