

42. The forward osmosis membrane of claim 39 comprising a rejection of NaCl greater than approximately 96%.

5 43. The forward osmosis membrane of claim 39 comprising one or more surfactants.

44. A device for performing separations, the device comprising an active layer which comprises one or more surfactants.

10 45. The device of claim 44 wherein the active layer comprises one or more transporters.

15 46. The device of claim 44 selected from the group consisting of a forward osmosis membrane or module, a reverse osmosis membrane or module, a pressure retarded osmosis membrane or module, a hollow fiber membrane, a spiral wound membrane or module, a cartridge, a Tangential Flow Filter (TFF) cartridge, a plate and frame module, a tubular membrane, and a bag.

20 47. The device of claim 44 comprising a porous support coated on both sides with said one or more surfactants.

25 48. The device of claim 44 wherein said one or more surfactants form a membrane mechanically stabilized on one or more porous supports.

42. The forward osmosis membrane of claim 39 comprising a rejection of NaCl greater than approximately 96%.
43. The forward osmosis membrane of claim 39 comprising one or more surfactants.
44. A device for performing separations, the device comprising an active layer which comprises one or more surfactants, wherein said one or more surfactants form a membrane mechanically stabilized on one or more porous supports.
45. The device of claim 44 wherein the active layer comprises one or more transporters.
46. The device of claim 44 selected from the group consisting of a forward osmosis membrane or module, a reverse osmosis membrane or module, a pressure retarded osmosis membrane or module, a hollow fiber membrane, a spiral wound membrane or module, a cartridge, a Tangential Flow Filter (TFF) cartridge, a plate and frame module, a tubular membrane, and a bag.
47. The device of claim 44 comprising a porous support coated on both sides with said one or more surfactants.