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(71) Applicant (for all designated States except US): **AQUA-PORIN A/S** [DK/DK]; Ole Maaløes Vej 3, DK-2200 Copenhagen (DK).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **JENSEN, Peter, Holme** [DK/DK]; Classengade 11, 3. tv, DK-2100 København (DK). **HANSEN, Jesper, Sondergaard** [DK/DK]; Kildebakkegårds Alle 110 st, mf, DK-2860 Søborg (DK). **VISSING, Thomas** [DK/DK]; Vesterfaelledvej 1B3, th, DK-1750 København (DK). **PERRY, Mark, Edward** [GB/DK]; Engelstedsgade 3 st, DK-2100 København (DK). **NIELSEN, Claus, Helix** [DK/DK]; Kaermindevej 1, DK-2630 Taastrup (DK).

(74) Agents: **KIDDLE, Simon, J.** et al.; Mewburn Ellis LLP, 33 Gutter Lane, London EC2V 8AS (GB).

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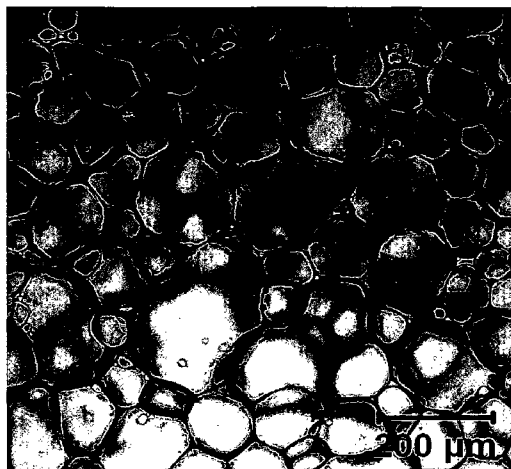
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(54) Title: BIOMIMETIC MEMBRANES AND USES THEREOF

Fig. 13



(57) Abstract: A liquid membrane system is disclosed in the form of a biochannel containing bulk liquid membrane (BLM), biochannel containing emulsion liquid membrane (ELM), and biochannel containing supported (immobilised) liquid membrane (SLM), or a combination thereof, wherein said liquid membrane system is based on vesicles formed from amphiphilic compounds such as lipids forming a bilayer wherein biochannels have been incorporated and wherein said vesicles further contain a stabilising oil phase. The uses of the membrane system include water extraction from liquid aqueous media by forward osmosis, e.g. for desalination of salt water.