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(71) Applicant: **MICROPORE TECHNOLOGIES LIMITED** [GB/GB]; 1 Massey Road, Thornaby, Stockton-On-Tees, Cleveland TS17 6DY (GB).

(72) Inventors: **TROTTER, Sam**; Micropore Technologies Limited, 1 Massey Road, Thornaby, Stockton-On-Tees, Cleveland TS17 6DY (GB). **WILLIAMS, Bruce**; Micropore Technologies Limited, 1 Massey Road, Thornaby, Stockton-On-Tees, Cleveland TS17 6DY (GB).

(74) Agent: **GILHOLM, Stephen, Philip**; IPheions Intellectual Property, The Smithy Office, The Hawk Creative Business Park, Easingwold, York YO61 3FE (GB).

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(54) Title: MEMBRANE EMULSIFICATION APPARATUS WITH REFINER AND METHOD OF PREPARING A REFINED EMULSION

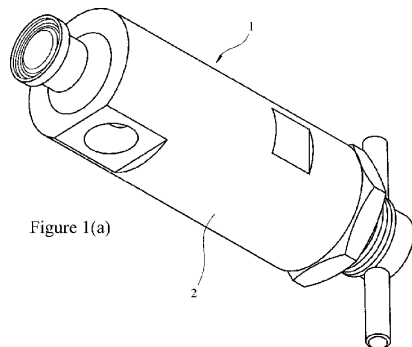


Figure 1(a)

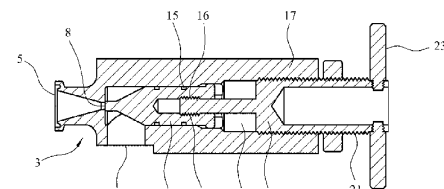


Figure 1(c)

SECTION A-A

(57) Abstract: Membrane Emulsification Apparatus with Refiner
There is described a membrane emulsification apparatus for dispersing a first phase in a second phase, comprising: • a membrane defining a plurality of apertures connecting a first volume on a first side of the membrane to a second volume on a second, different, side of the membrane, the apparatus being arranged to receive a first phase containing a liquid in the first volume and to receive a second phase in the second volume the apparatus being adapted to generate an emulsion through egression of the first phase into the second phase via the plurality of apertures; • the apparatus also comprising a refiner (1) arranged to receive the emulsion from the membrane; and wherein said refiner comprises an inlet (4/5) and an outlet (5/4) wherein an opening (8) adapted to converge flow of the emulsion and to break up droplets of the emulsion into a refined emulsion is located between the inlet and the outlet.

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