

Title (en)  
SYSTEMS AND METHODS FOR THE TRANSPORT OF FLUIDS THROUGH A BIOLOGICAL BARRIER AND PRODUCTION TECHNIQUES FOR SUCH SYSTEMS

Title (de)  
SYSTEME UND VERFAHREN ZUM TRANSPORTIEREN VON FLÜSSIGKEITEN DURCH BIOLOGISCHE BARRIEREN UND PRODUKTIONSTECHNIKEN FÜR SOLCHE SYSTEME

Title (fr)  
SYSTEMES ET PROCEDES DE TRANSPORT DE FLUIDES A TRAVERS UNE BARRIERE BIOLOGIQUE ET TECHNIQUES DE PRODUCTION DE TELS SYSTEMES

Publication  
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Application  
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Abstract (en)  
[origin: WO0166065A2] A device (10) for the transport of fluids through a biological barrier includes a number of microneedles (16) projecting from the front face (14) of a substrate (12). A conduit (18) is associated with each of the microneedles (16) to provide a flow path for transport of fluid through a hole in the biological barrier formed by the corresponding microneedle (16). Each of the microneedles (16) is configured to provide a penetrating tip (20), and each conduit (18) terminates at an opening (22) which is proximal with respect to the microneedle tip (20). Also described are microneedle-based devices with integrated MEMS pumping configurations for withdrawal and/or delivery of fluids, and remote healthcare systems based on such devices.  
[origin: WO0166065A2] A device for the transport of fluids through a biological barrier includes a number of microneedles projecting from the front face of a substrate. A conduit is associated with each of the microneedles to provide a fluid flow path for transport of fluid through a hole in the biological barrier formed by the corresponding microneedle. Each of the microneedles is configured to provide a penetrating tip, and each conduit terminates at an opening which is proximal with respect to the microneedle tip. Also described are microneedle-based devices with integrated MEMS pumping configurations for withdrawal and/or delivery of fluids, and remote healthcare systems based on such devices.

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Citation (search report)  
• [X] WO 9617648 A1 19960613 - CIBA GEIGY AG [CH], et al  
• [XY] WO 0009184 A1 20000224 - IMPRINT PHARM LTD [GB], et al  
• [Y] WO 9800193 A1 19980108 - ALTEA TECH INC [US], et al  
• [Y] EP 0407063 A1 19910109 - CONNAUGHT LAB [CA]  
• [XY] DE 19525607 A1 19970116 - BOEHRINGER INGELHEIM KG [DE]  
• [Y] FR 2535602 A1 19840511 - STALLERGENES LAB [FR]  
• [A] US 3964482 A 19760622 - GERSTEL MARTIN S, et al  
• See references of WO 0166065A2

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