

Title (en)  
COMPOSITE MEMBRANE AND METHOD FOR MANUFACTURING SUCH A MEMBRANE

Title (de)  
VERBUNDMEMBRAN UND VERFAHREN ZUR HERSTELLUNG SOLCH EINER MEMBRAN

Title (fr)  
MEMBRANE COMPOSITE ET PROCÉDÉ DE FABRICATION D'UNE TELLE MEMBRANE

Publication  
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Application  
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Abstract (en)  
[origin: WO2018162866A1] The present invention relates to a composite membrane (10) comprising a fibrous fabric (1) of nanofibres (11), wherein the thickness of the fabric (1) is between 10 nm and 50 µm and said fabric is impregnated with a wetting liquid (A). According to the invention, the composite membrane is immersed in a second fluid (B) which is immiscible with the wetting liquid (A), forming an A/B interface between the wetting liquid (A) and the immiscible fluid (B), and the composite membrane is capable of remaining tensioned when it is compressed from its resting state until reaching dimensions corresponding to 5% of its dimensions in the resting state, and when it is stretched from its compressed state until reaching dimensions corresponding to 2000% of the length in the compressed state. The present invention also relates to a process for manufacturing such a membrane.

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