

Title (en)  
DEVICE FOR GENTLE MECHANICAL GENERATION OF FINELY DISPERSED MICRO-/NANO-EMULSIONS WITH NARROW PARTICLE SIZE DISTRIBUTION

Title (de)  
VORRICHTUNG ZUR MECHANISCH SCHONENDEN ERZEUGUNG VON FEIN DISPERSEN MIKRO-/NANO-EMULSIONEN MIT ENGER TROPFENGROSSENVERTEILUNG

Title (fr)  
DISPOSITIF POUR PRODUIRE PAR UNE ACTION MECANIQUE DOUCE DES MICRO ET NANOEMULSIONS FINEMENT DISPERSEES A DISTRIBUTION DIMENSIONNELLE ETROITE DES GOUTTES

Publication  
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Application  
**EP 05776538 A 20050819**

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• DE 102004040735 A 20040823

Abstract (en)  
[origin: US8267572B2] This invention relates to a method for the mechanically protective production of finely dispersed micro-/nanoemulsions with narrow droplet size distribution, whereby drops are produced on the surface of a membrane or of a filter fabric, and the drops are detached from the membrane or filter fabric surface by motion of the membrane or of the filter fabric in a first immiscible liquid phase in which pronounced stretching flow components in particular, besides shear flow components, bring about the detachment of the drops formed on the membrane surface especially efficiently and protectively. The invention also relates to a device for implementing the method according to the invention with a membrane or filter unit that is positioned to move, in particular to be able to rotate, in a housing with a gap that may be eccentric toward the inner wall of the housing and/or provided with flow baffles that produce stretching flow components.

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