

Title (en)  
Method for producing aqueous emulsions or suspensions

Title (de)  
Verfahren zur Herstellung wässriger Emulsionen oder Suspensionen

Title (fr)  
Procédé de production d'émulsions ou de suspensions aqueuses

Publication  
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Application  
**EP 14183319 A 20140903**

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Abstract (en)  
The present invention proposes a method for the production of an aqueous emulsion or suspension, wherein a hydrophobic liquid phase is brought into contact with an aqueous phase in a premixing chamber (38) to form a premix (44), said premixing chamber (38) comprising an inlet (40) from a feed line (32) for a first liquid (12) and at least one inlet (42) from a feed line (34) for at least a second liquid (14), the premix (44) being forced to leave the premixing chamber (38) through a spray element (64) with an orifice (66) therein forming the outlet (68) of the premixing chamber (38), wherein said orifice (66) is configured to spray the premix (44) in a jet (70) and produce shear or cavitation in the premix jet (70), characterized in that the hydrophobic liquid phase and the aqueous phase are fed in a discontinuous manner. The present invention further proposes an apparatus (20) for mixing a first liquid (12) and at least a second liquid (14) by producing shear and/or cavitation. The apparatus (20) may be used for the production of an aqueous emulsion or suspension.

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