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**METHOD AND APPARATUS FOR THE SEPARATION OF OIL AND WATER USING
HYDROPHOBIC AND HYDROPHILIC FUNCTIONAL SOLID PARTICLES**

ABSTRACT

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A method of separating oil and water from an oil/water emulsion by means of the agglomeration of oil droplets and/or water droplets in each case to form larger drops and phase
15 separation of oil and water under gravitational forces,
wherein the oil/water emulsion is mixed with functional solid particles to agglomerate oil droplets and/or water droplets having functional solid particles and the functional solid particles are hydrophobicized for the agglomeration of oil
20 droplets or are hydrophilicized for the agglomeration of water droplets is described.

No Fig.