TITLE
Liquid encapsulation process

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DESCRIPTION
Globular microstructures comprising a liquid core and a solid shell that envelops the core comprising the micro-or nanofiber polymer, preferably obtained by electro-spinning, comprising a hydrophobic polymer or a mixture of polymer with hydrophobic polymers derived from cellulose or polyacrylates; microstructures may have an additional coating of nanoparticles or polymer. The microstructures have applications similar to those of the "liquid marbles" with improved mechanical properties.

APPLICATIONS
Sensors (gas, liquid), microreactors, systems from drug delivery, manipulation and transport of small quantities of liquids, pickering emulsions.

KEYWORDS
Liquid encapsulation; electrospinning; fibrous shell; hydrophobic fibers

BIBLIOGRAPHIC DATA
Procedimento per l'incapsulazione di un liquido
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