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TITLE

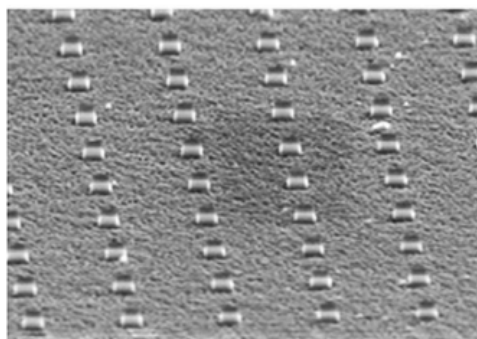
Three dimensional structure of a dispersible nanoresonator for biological, medical and environmental applications and method to manufacture such nanoresonator

INVENTORS

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DESCRIPTION

A three-dimensional structure of an electromagnetic nanoresonator, comprising a stack of laterally confined layers that includes at least a first and a second layer of a respective conductive material between which a dielectric layer is interposed, which define a resonant equivalent electrical circuit having a nominal resonant frequency which is a function of the geometrical dimensions of the structure, wherein said layers of conductive material and said dielectric layer have at least a respective accessible surface area, adapted to be exposed in a liquid environment of immersion of said structure.



APPLICATIONS

Medical applications, biological applications, environmental applications

KEYWORDS

Nanoantenna, nanoresonator, lithography, dispersible, nanosensing

BIBLIOGRAPHIC DATA

Struttura Di Nanorisonatore Tridimensionale E Disperdibile Per Applicazioni Biologiche, Medicali E Ambientali E Procedimento Di Fabbricazione Di Tali Nanorisonatori

Application Number IT TO2013A000001

Priority Date January 2, 2013

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