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(54) **Title**: BIOCOMPATIBLE METHOD OF FUNCTIONALISING SUBSTRATES WITH INERT SURFACES

(57) **Abstract**: Biocompatible methods of functionalising inert surfaces for use in biological applications are described. The methods employ the use of synthetic constructs of the generic structure F-S-L (where F is a functional moiety, S is a spacer selected to provide a construct that is dispersible in water, and L is a diacyl- or dialkyl- glycerophospholipid). An object of the invention is to localise or immobilise functional moieties to the inert surface of a substrate wherein the surface is comprised of glass, silver, polyamide, polycarbonate, polypropylene, polyethersulfone, polytetrafluoroethylene or polyvinylidene fluoride, and the substrate is comprised of a fibre, membrane, microsphere or nanosphere.