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(54) Title: A NANOPARTICLE SUITABLE FOR DELIVERY OF A BIOMOLECULE INTO OR OUT OF A MEMBRANE ENCLOSED CELL OR CELL ORGANELLE

(57) Abstract: A nano sized particle for in vitro or ex vivo biomolecule delivery to cell cultures through heat induced endosomal release comprising a superparamagnetic core coated in a heat sensitive coating, comprising membrane disruptive components and binding sites for attachment of biomolecules and markers to be delivered. A method for introducing the release effect of a plurality of said biomolecule and endosomal disruptive molecules by applying an alternating field to a cell culture harbouring the particle described by the invention.

WO 2007/021236 A1