

Title (en)
SYSTEMS FOR TREATMENT OF DISEASE VIA APPLICATION OF MECHANICAL FORCE BY CONTROLLED ROTATION OF NANOPARTICLES
INSIDE CELLS

Title (de)
SYSTEME ZUR BEHANDLUNG VON KRANKHEITEN MITTELS ANWENDUNG VON MECHANISCHER KRAFT DURCH KONTROLLIERTE
DREHUNG VON NANOPARTIKELN IN ZELLEN

Title (fr)
SYSTÈMES DE TRAITEMENT DE LA MALADIE PAR APPLICATION D'UNE FORCE MÉCANIQUE PAR ROTATION CONTRÔLÉE DE CELLULES
À L'INTÉRIEUR DE NANOPARTICULES

Publication
EP 3344334 A1 20180711 (EN)

Application
EP 16775011 A 20160902

Priority
• US 201562215001 P 20150906
• US 2016050090 W 20160902

Abstract (en)
[origin: WO2017040915A1] The present disclosure describes systems, apparatus, and methods for application of dynamic magnetic field (DMF) treatment to direct movement, and specifically rotation, of magnetic particles associated with a target structure, so that mechanical force is applied to the target structure. In certain embodiments, the present disclosure describes use of an alternating current superconductor (ACSC) to greatly enhance the magnetic field amplitude so that the field can penetrate deeper into a body with sufficient amplitude to control movement of the nanoparticles within a working volume.

IPC 8 full level
A61N 2/00 (2006.01); **A61N 2/02** (2006.01)

CPC (source: EP)
A61K 9/0009 (2013.01); **A61K 9/5115** (2013.01); **A61K 41/0028** (2013.01); **A61K 47/6849** (2017.07); **C07K 16/2896** (2013.01); **B82Y 5/00** (2013.01); **C07K 2317/77** (2013.01); **H01F 1/447** (2013.01)

Citation (search report)
See references of WO 2017040915A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2017040915 A1 20170309; CA 2997318 A1 20170309; EP 3344334 A1 20180711

DOCDB simple family (application)
US 2016050090 W 20160902; CA 2997318 A 20160902; EP 16775011 A 20160902