# 505854965 01/09/2020

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5901902

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
BRUCE A. SHAPIRO	12/20/2019
MATHIAS D. VIARD	12/20/2019
ECKART H.U. BINDEWALD	12/20/2019
WOJCIECH KASPRZAK	12/20/2019
MARINA A. DOBROVOLSKAIA	11/27/2019

### **RECEIVING PARTY DATA**

Name:	THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES
Street Address:	OFFICE OF TECHNOLOGY TRANSFER, NATIONAL INSTITUTES OF HEALTH
Internal Address:	6011 EXECUTIVE BOULEVARD, SUITE 325, MSC 7660
City:	BETHESDA
State/Country:	MARYLAND
Postal Code:	20892-7660

## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16500765

# **CORRESPONDENCE DATA**

**Fax Number:** (312)616-5700

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

**Phone:** 312-616-5600

**Email:** assignments@leydig.com

Correspondent Name: LEYDIG, VOIT & MAYER, LTD.

Address Line 1: TWO PRUDENTIAL PLAZA, SUITE 4900

Address Line 2: 180 NORTH STETSON AVENUE
Address Line 4: CHICAGO, ILLINOIS 60601-6731

ATTORNEY DOCKET NUMBER:	744889
NAME OF SUBMITTER:	CHERYL BELCIK
SIGNATURE:	/Cheryl Belcik/

PATENT 4965 REEL: 051461 FRAME: 0486

505854965

DATE SIGNED:	01/09/2020
Total Attachments: 6	
source=744889_NIHassignment#page1.tif	
source=744889_NIHassignment#page2.tif	
source=744889_NIHassignment#page3.tif	
source=744889_NIHassignment#page4.tif	
source=744889_NIHassignment#page5.tif	
source=744889_NIHassignment#page6.tif	

PATENT REEL: 051461 FRAME: 0487

# ASSIGNMENT FOR NIH/FDA/CDC INVENTIONS AIA (NIH OR FDA OR CDC AND LEIDOS BIOMEDICAL CO-INVENTORS ONLY)

### WHEREAS, we,

1. Bruce A. Shapiro, an employee of the National Institutes of Health,

a component of the United States Department of Health and Human Services having an address at the Office of Technology Transfer, National Institutes of Health, 6011 Executive Boulevard, Suite 325, MSC 7660, Bethesda, MD 20892-7660, and

 Mathias D. Viard, Eckart H.U. Bindewald, Wojciech Kasprzak, and Marina A. Dobrovolskaia, employees of Leidos Biomedical Research, Inc., a subsidiary of Leidos, Inc., a Delaware corporation having a principal place of business at 1050 Boyles Street, Bldg 428, Frederick, MD 21702-1201

have made certain inventions as described and claimed in:

 U.S. Patent Application No. 16/500,765, filed October 3, 2019, and which is entitled "FUNCTIONALLY-INTERDEPENDENT SHAPE SWITCHING NUCLEIC ACID NANOPARTICLES."

Herein referred to as "The Patent Application"

WHEREAS, we are some of the inventors named in The Patent Application; and

WHEREAS, the inventions described and claimed in The Patent Application were made under conditions such as to entitle THE UNITED STATES OF AMERICA, as represented by the Secretary, Department of Health and Human Services [hereinafter THE GOVERNMENT] under Executive Order 10096 and its amendments, 35 USC §§200-202, §§206-207, and §210 and 37 CFR Part 501 and 37 CFR Part 401to our right, title, and interest in such inventions; and

WHEREAS, THE GOVERNMENT is desirous of acquiring all domestic and foreign right, title, and interest in the inventions described and claimed in **The Patent Application**; and

**NOW, THEREFORE,** having the legal obligation to assign our right, title and interest in the inventions described and claimed in **The Patent Application** to **THE GOVERNMENT**, having a place of business at the Office of Technology Transfer, National Institutes of Health, 6011 Executive Boulevard, Suite 325, MSC 7660, Bethesda, MD 20892-7660 and for consideration, the receipt and sufficiency of which are hereby acknowledged, we hereby assign and transfer to **THE GOVERNMENT**:

our entire right, title, and interest in and to any and all inventions described and claimed in **The Patent Application** and any and all Letters Patent(s) which may be granted thereon, and any and all continuations, divisions, reissues or extensions thereof; and

all rights to claim priority on the basis of **The Patent Application** including but not limited to applications filed through the provisions of the Patent Cooperation Treaty ("PCT Applications"); and

all applications for Letters Patent(s) that may be filed for any and all inventions described and claimed in **The Patent Application** that may be filed in any foreign country and all Letters Patents that may be granted thereon in any foreign country and all extensions, renewals, and reissues thereof; and Page 1 of 6

PATENT REEL: 051461 FRAME: 0488 all applications for Letters Patent(s) that may be filed for any and all inventions described and claimed in **The Patent Application** that may be filed in any foreign country and all Letters Patents that may be granted thereon in any foreign country and all extensions, renewals, and reissues thereof; and

any and all such Letters Patents as may be granted in the United States or any foreign country to be held by **THE GOVERNMENT** to the end of the term for which the same would have been held by the inventors had this assignment not been made.

We further agree to make, execute, and deliver to **THE GOVERNMENT**, upon request, any and all papers, documents, affidavits, or other instruments that may be necessary in the prosecution of any application or applications for improvements or reissues of Letters Patent, and to assist **THE GOVERNMENT** in every way as may be requested in protecting said invention.

IN WITNESS WHEREOF we subscribe our hands and seals on the dates shown below:

Inventor 1:
12-20-2019 Date  Bruce A. Shapiro
County of <u>frederick</u> Ss: State of <u>Mary land</u>
Subscribed and sworn to before me this 2 day of December 2015
[Seal] Chew A Rhoderick
Notary Public for <u>Frederick MD</u> My Commission Expires: <u>I - 32-20</u> 20

Inventor 2:	· · · · · · · · · · · · · · · · · · ·
19-20-2019	45
Date	Mathias D. Viard
County of Frederick	
S	S:
State of Mary land	
Subscribed and sworn to before m	e this 20 day of Decamber 2020
[Seal]	Notary Public for Frederick, MS
	Notary Public for Frederick MS
	My Commission Expires: 1-22-202

Inventor 3:	
/-20-2019 Date	Edhet Szallee Eckart H. Bindewald
County of Fraderick	
State of Mary land	Ss:  before me this 20 day of December 30 20
[Seal]	Notary Public for <u>Indecicl</u> , MS My Commission Expires: 12-2020

Inventor 4:	
1-20-3019 Date	Wojciech Kasprzak
State of Maryland	Ss:
	fore me this 20 day of Decamber 2020
[Seal]	Notary Public for Frederick MS  My Commission Expires: 1-22-200

ASSIGNMENT Attorney Docket No: 744889

Inventor 5:
11-27-2019 Doscre91
Date Marina A. Dobrovolskaia
County of <u>Frederick</u> Ss:
State of Maryland
Subscribed and sworn to before me this 27 day of November, 2019
[Seal]  [Seal]
CANDICE MARIE GARNER-GROVES NOTARY PUBLIC STATE OF MARYLAND My Commission Expires January 25, 2021

Page 6 of 6

**RECORDED: 01/09/2020**