

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3957949

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	RELEASE OF SECURITY INTEREST	
CONVEYING PARTY DATA		
Name		Execution Date
NSPH FUNDING LLC		06/30/2016
RECEIVING PARTY DATA		
Name:	NANOSPHERE, INC.	
Street Address:	4088 COMMERCIAL AVENUE	
City:	NORTHBROOK	
State/Country:	ILLINOIS	
Postal Code:	60062	
PROPERTY NUMBERS Total: 67		
Property Type	Number	
Patent Number:	6773884	
Patent Number:	6361944	
Patent Number:	6506564	
Patent Number:	6582921	
Patent Number:	6759199	
Patent Number:	6645721	
Patent Number:	6610491	
Patent Number:	6673548	
Patent Number:	6740491	
Patent Number:	6709825	
Patent Number:	7259252	
Patent Number:	6878814	
Patent Number:	6720411	
Patent Number:	6677122	
Patent Number:	7098320	
Patent Number:	6861221	
Patent Number:	6828432	
Patent Number:	6903207	
Patent Number:	6818753	
Patent Number:	6682895	

PATENT

Property Type	Number
Patent Number:	6986989
Patent Number:	6720147
Patent Number:	6812334
Patent Number:	6777186
Patent Number:	6902895
Patent Number:	6730269
Patent Number:	6969761
Patent Number:	6962786
Patent Number:	8323888
Patent Number:	6495324
Patent Number:	6417340
Patent Number:	7115688
Patent Number:	6767702
Patent Number:	7250499
Patent Number:	6750016
Patent Number:	7208587
Patent Number:	6602669
Patent Number:	6726847
Patent Number:	6984491
Patent Number:	7186814
Patent Number:	7238472
Patent Number:	7147687
Patent Number:	7135055
Patent Number:	7110585
Patent Number:	7773790
Patent Number:	7687437
Patent Number:	7169556
Patent Number:	7253277
Patent Number:	6974669
Patent Number:	7323309
Patent Number:	7163823
Patent Number:	7297553
Patent Number:	7476550
Patent Number:	7485469
Patent Number:	7485470
Patent Number:	7482173
Patent Number:	7985539
Patent Number:	D587110

Property Type	Number
Patent Number:	7396677
Patent Number:	7695952
Patent Number:	7625746
Patent Number:	7888107
Patent Number:	7807372
Patent Number:	7321829
Patent Number:	8512946
Application Number:	14212487
Application Number:	14693470

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	064165.001
NAME OF SUBMITTER:	MATTHEW P. WARENZAK
SIGNATURE:	/Matthew P. Warezak/
DATE SIGNED:	07/12/2016

Total Attachments: 17

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RELEASE OF SECURITY INTEREST IN PATENTS

THIS RELEASE OF SECURITY INTEREST IN PATENTS dated June 30, 2016 by NSPH Funding LLC, a Delaware limited liability company ("Collateral Agent");

WITNESSETH:

WHEREAS, Nanosphere, Inc., (hereinafter referred to as "Grantor"), a Delaware corporation, and Collateral Agent were parties to a certain Intellectual Property Security Agreement dated as of May 14, 2015 among Grantor, and Collateral Agent, which was recorded in the United States Patent and Trademark Office on June 16, 2015 at Reel 035921, Frame 0289 (the "Agreement"), pursuant to which Grantor granted to Collateral Agent, a security interest in, among other things, the patents, and applications listed on Schedule A attached hereto and certain other property (collectively, the "Patent Property"); and

WHEREAS, Grantor has requested that Collateral Agent release its security interests in the Patent Property and reassign the same to Grantor;

NOW, THEREFORE, for good and valuable consideration, receipt and sufficiency of which are hereby acknowledged:

Collateral Agent hereby releases its security interests in, and hereby reassigns, grants and conveys to Grantor, without any representation, warranty, recourse or undertaking by Collateral Agent, all of its liens, security interests, right, title and interest, if any, in and to the Patent Property and all of the following property and rights:

- i. each patent and patent application listed on Exhibit A hereto; and
- ii. all reissues, divisions, continuations, continuations-in-part, extensions, renewals and reexaminations of any of the foregoing, all rights in the foregoing provided by international treaties or conventions, all rights corresponding thereto throughout the world and all other rights of any kind whatsoever of Grantor accruing thereunder or pertaining thereto; and
- iii. any and all claims for damages and injunctive relief for past, present and future infringement, dilution, misappropriation, violation, misuse or breach with respect to any of the foregoing, with the right to sue for and collect, or otherwise recover, such damages; and
- iv. any and all proceeds of, collateral for, income, royalties and other payments due and payable with respect to, and supporting obligations relating to, any and all of the foregoing or arising from any of the foregoing.

IN WITNESS WHEREOF, Collateral Agent has caused this Release of Security Interests in Patents to be duly executed by its duly authorized officer as of the day and year first above written.

NSPH Funding LLC, a Delaware limited liability company

By: 
Name: Stephen J. Denney
Title: President

[Signature Page to Release of Security Interest in Patents]

Exhibit A

Nanosphere Patent Schedule

TITLE		FILING DATE	PATENT NO.	ISSUE DATE	OWNERSHIP RIGHTS
UNITED STATES PATENTS					
1	00-713-B1 Nanoparticles having oligonucleotides attached thereto and uses therefor	8/7/2001	6,773,884	8/10/2004	Joint with Northwestern University
2	00-713-C Nanoparticles having oligonucleotides attached thereto and uses therefor	6/25/1999	6,361,944	3/26/2002	Joint with Northwestern University
3	00-713-I Nanoparticles having oligonucleotides attached thereto and uses therefor	6/26/2000	6,506,564	1/14/2003	Joint with Northwestern University
4	00-713-I-01 Nanoparticles having oligonucleotides attached thereto and uses thereof	9/20/2001	6,582,921	6/24/2003	Joint with Northwestern University
5	00-713-I-02 Nanoparticles having oligonucleotides attached thereto and uses therefor	9/20/2001	6,759,199	7/6/2004	Joint with Northwestern University
6	00-713-I-03 Nanoparticles having oligonucleotides attached thereto and uses therefor	9/20/2001	6,645,721	11/11/2003	Joint with Northwestern University
7	00-713-I-04 Nanoparticles having oligonucleotides attached thereto and uses therefor	9/28/2001	6,610,491	5/25/2004	Joint with Northwestern University
8	00-713-I-05 Nanoparticles having oligonucleotides attached thereto and uses therefor	9/28/2001	6,673,546	1/6/2004	Joint with Northwestern University
9	00-713-I-06 Nanoparticles having oligonucleotides attached thereto and uses therefor	9/28/2001	6,740,491	5/25/2004	Joint with Northwestern University
10	00-713-I-07 Nanoparticles having oligonucleotides attached thereto and uses therefor	10/10/2001	6,709,825	3/23/2004	Northwestern University
11	00-713-I-08 Nanoparticles having oligonucleotides attached thereto and uses therefor	10/10/2001	7,259,252	8/21/2007	Joint with Northwestern University
12	00-713-I-09 Nanoparticles having oligonucleotides attached thereto and uses therefor	10/10/2001	6,878,814	4/12/2005	NSPH

13	00-713-1-10	Nanoparticles having oligonucleotides attached thereto and uses therefor	10/10/2001	6,720,411	4/13/2004	NSPH
14	00-713-1-11	Nanoparticles having oligonucleotides attached thereto and uses therefor	10/11/2001	6,677,122	1/13/2004	NSPH
15	00-713-1-13	Nanoparticles having oligonucleotides attached thereto and uses therefor	10/11/2001	7,098,320	8/29/2006	Northwestern University
16	00-713-1-14	Nanoparticles having oligonucleotides attached thereto and uses therefor	10/11/2001	6,861,221	3/1/2005	NSPH
17	00-713-1-15	Nanoparticles having oligonucleotides attached thereto and uses therefor	10/11/2001	6,828,432	12/7/2004	Joint with Northwestern University
18	00-713-1-16	Nanoparticles having oligonucleotides attached thereto and uses therefor	10/12/2001	6,903,207	6/7/2005	Joint with Northwestern University
19	00-713-1-17	Nanoparticles having oligonucleotides attached thereto and uses therefor	10/12/2001	6,818,753	11/16/2004	NSPH
20	00-713-1-18	Nanoparticles having oligonucleotides attached thereto and uses therefor	10/12/2001	6,682,895	12/7/2004	NSPH
21	00-713-1-19	Nanoparticles having oligonucleotides attached thereto and uses therefor	10/12/2001	6,986,989	1/17/2006	NSPH
22	00-713-1-20	Nanoparticles having oligonucleotides attached thereto and uses therefor	10/12/2001	6,720,147	4/13/2004	Joint with Northwestern University
23	00-713-1-21	Nanoparticles having oligonucleotides attached thereto and uses therefor	10/12/2001	6,812,334	11/2/2004	Joint with Northwestern University
24	00-713-1-22	Nanoparticles having oligonucleotides attached thereto and uses therefor	10/15/2001	6,777,186	8/17/2004	Joint with Northwestern University
25	00-713-1-23	Nanoparticles having oligonucleotides attached thereto and uses therefor	10/12/2001	6,902,895	6/7/2005	Northwestern University
26	00-713-1-24	Nanoparticles having oligonucleotides attached thereto and uses therefor	10/12/2001	6,730,269	5/4/2004	NSPH
27	00-713-1-25	Nanoparticles having oligonucleotides attached thereto and uses therefor	10/12/2001	6,969,761	11/29/2005	NSPH
28	00-713-1-26	Nanoparticles having oligonucleotides attached thereto and uses therefor	4/9/2003	6,962,786	11/8/2005	Joint with Northwestern University

29	00-713-I-27	Nanoparticles having oligonucleotides attached thereto and uses therefor	2/2/2007	8,323,888	12/4/2012	Joint with Northwestern University
30	00-713-L	Nanoparticles having oligonucleotides attached thereto and uses therefor	10/20/2000	6,495,324	12/17/2002	Joint with Northwestern University
31	00-713-M	Nanoparticles having oligonucleotides attached thereto and uses therefor	10/20/2000	6,417,340	7/9/2002	Joint with Northwestern University
32	00-714-G	Nanoparticles with polymer shells	11/30/1999	7,115,688	10/3/2005	NSPH
33	00-715-A	Nanoparticles having oligonucleotides attached thereto and uses therefor	11/2/2001	6,767,702	7/27/2004	Joint with Northwestern University
34	00-715-B	Nanoparticles having oligonucleotides attached thereto and uses therefor	11/18/2003	7,250,499	7/31/2007	Joint with Northwestern University
35	00-1085-A	Nanoparticles having oligonucleotides attached thereto and uses therefor	3/28/2001	6,750,016	6/15/2004	Joint with Northwestern University
36	00-1085-G	Nanoparticles having oligonucleotides attached thereto and uses therefor	8/13/2003	7,208,587	4/24/2007	Joint with Northwestern University
37	00-1086-A	Method of detection by enhancement of silver staining	7/11/2001	6,602,669	8/5/2003	Northwestern University
38	00-1124-A	Silver stain removal by chemical etching and sonication	11/30/2001	6,726,847	4/27/2004	Northwestern University
39	00-1272-C	Nanoparticles having oligonucleotides attached thereto and uses therefor	12/7/2001	6,984,491	1/10/2006	Joint with Northwestern University
40	01-599-A	Bioconjugate-nanoparticle probes	11/8/2002	7,186,814	3/6/2007	NSPH
41	01-661-A	Non-alloying core shell nanoparticles	12/28/2001	7,238,472	7/3/2007	Northwestern University
42	01-661-C	Non-alloying core shell nanoparticles	5/22/2002	7,147,687	12/12/2006	Northwestern University
43	01-661-E	Non-alloying core shell nanoparticles	3/26/2003	7,135,055	11/14/2006	Northwestern University
44	01-801-A	Nanoparticle imaging system and method	8/2/2002	7,110,585	9/19/2006	NSPH

45	01-801-A1	Nanoparticle imaging system and method	9/8/2006	7,773,790	8/10/2010	NSPH
46	01-897-B	Method for immobilizing molecules onto surfaces	7/12/2002	7,687,437	3/30/2010	NSPH
47	01-1565-A	Nanoparticles having oligonucleotides attached thereto and uses therefor	10/8/2002	7,169,556	1/30/2007	Northwestern University
48	01-1633-A	Nanoparticle polyanion conjugates and methods of use thereof in detecting analytes	7/2/2003	7,253,277	8/7/2007	NSPH
49	01-1705-A	Bio-barcodes based on oligonucleotide-modified nanoparticles	3/27/2002	6,974,669	12/13/2005	Northwestern University
50	01-1705-F	Bio-barcodes based on oligonucleotide-modified particles	8/31/2005	7,323,309	1/29/2008	Northwestern University
51	02-035-C	DNA hybridization device and method	1/27/2003	7,163,623	1/16/2007	NSPH
52	02-334-A	Method for attachment of silylated molecules to glass surfaces	5/28/2003	7,297,553	11/20/2007	NSPH
53	02-334-J	Method for attachment of silylated molecules to glass surfaces	1/19/2007	7,476,550	1/13/2009	NSPH
54	02-334-K	Method for attachment of silylated molecules to glass surfaces	1/19/2007	7,485,469	2/3/2009	NSPH
55	02-334-L	Method for attachment of silylated molecules to glass surfaces	1/19/2007	7,485,470	2/3/2009	NSPH
56	02-334-M	Method for attachment of silylated molecules to glass surfaces	1/19/2007	7,482,173	1/27/2009	NSPH
57	02-338-C	Nanoparticle probes with Raman Spectroscopic fingerprints for analyte detection	5/7/2003	7,985,539	7/26/2011	NSPH
58	08-0371-US1	Combined Tray and Shipping Container	1/17/2008	D587,110	2/24/2009	NSPH
59	NWK-90483	Method Of Preparing Nucleic Acids For Detection	11/7/2003	7,396,677	7/8/2008	NSPH
60	92557-US	Disposable sample processing module for detecting nucleic acids	11/5/2004	7,695,952	4/13/2010	NSPH

61	96474-US	Method of Denaturing and Fragmenting DNA or RNA Using Ultrasound	7/24/2006	7,625,746	12/1/2009	NSPH
62	96777-US	System Using Disposable Self-Contained Processing Module for Detecting Nucleic Acids	7/24/2006	7,888,107	1/13/2011	NSPH
63	NU26183	Screening Sequence Selectivity Of Oligonucleotide-Binding Molecules Using Nanoparticle Based Colorimetric Assay	June 4, 2008	7,807,372	11/5/2010	Northwestern University
64	EPP-US1	Method for the identification and/or the quantification of a target compound	5/19/2000	7,321,829	1/22/2008	NSPH
65	NU25066	Composite Particles	10/8/2007	8,512,946	8/20/2013	Northwestern University
AUSTRALIAN PATENTS						
66	00-713-D1	Nanoparticles having oligonucleotides attached thereto and uses thereof	1-Nov-01	770201	6/3/2004	NSPH
67	00-713-D2	Nanoparticles having oligonucleotides attached thereto and uses thereof	19-Aug-04	2004205147	4/28/2004	NSPH
68	00-1086-C	Method of detection by enhancement of silver staining	11-Jul-01	2001276670	11/2/2006	Northwestern University
69	EPP-AU	Method for the identification and/or the quantification of a target compound	16-May-00	779752	6/9/2005	NSPH
CANADIAN PATENTS						
70	00-713-E	Nanoparticles having oligonucleotides attached thereto and uses therefor	1/27/1999	2262018	10/2/2007	NSPH
71	00-713-O	Nanoparticles having oligonucleotides attached thereto and uses therefor	12/13/2001	2376623	4/19/2011	Joint with Northwestern University
72	00-714-C	Nanoparticles with polymer shells	5/25/2001	2352362	2/17/2009	NSPH
73	00-715-E	Nanoparticles having oligonucleotides attached thereto and uses therefor	6/27/2002	2396113	4/7/2009	Joint with Northwestern University
74	00-1086-D	Method of detection by enhancement of silver staining	1/8/2003	2415494	9/18/2007	Northwestern University

75	00-1085-D	Nanoparticles having oligonucleotides attached thereto and uses therefor	9/10/2002	2402955	3/9/2010	Joint with Northwestern University
76	01-599-D	Bioconjugate-nanoparticle probes	5/6/2004	CA2466656	7/2/2013	NSPH
77	01-801-E	Nanoparticle Imaging System And Method	1/27/2004	2455118	1/17/2012	NSPH
78	01-1565-D	Nanoparticles having oligonucleotides attached thereto and uses therefor	10/9/2002	2463323	12/21/2010	Northwestern University
79	01-1633-D	Nanoparticle polyanion conjugates and methods of use thereof in detecting analytes	12/21/2004	2490413	8/30/2011	NSPH
80	02-338-F	Nanoparticle probes with raman spectroscopic fingerprints for analyte detection	10/27/2004	2483697	3/30/2010	Northwestern University
81	EPP-CA	Method for the identification and/or the quantification of a target compound	5/16/2000	2371658	1/31/2012	NSPH
CHINESE PATENT						
82	EPP-CN	Method for the identification and/or the quantification of a target compound	5/16/2010	100533146C	8/26/2009	NSPH
JAPANESE PATENTS						
83	00-713-G	Nanoparticles having oligonucleotides attached thereto and uses therefor	1/29/1999	4245664	1/16/2009	NSPH
84	00-1086-F	Method of detection by enhancement of silver staining	7/11/2001	3605607	10/8/2004	Northwestern University
85	01-599-F	Bioconjugate-nanoparticle probes	5/10/2004	4220397	11/21/2008	NSPH
86	01-801-G	Nanoparticle imaging system and method	2/3/2004	4347053	7/24/2009	NSPH
87	01-1565-F	Nanoparticles having oligonucleotides attached thereto and uses therefor	4/9/2004	4347049	7/24/2009	Northwestern University
88	01-1705-E	Bio-barcodes based on oligonucleotide-modified particles	9/29/2003	4146239	6/27/2008	Northwestern University
89	02-334-G	Method for preparing substrates having immobilized molecules and substrates	11/2/2006	4648944	12/17/2010	NSPH

90	EPP-JP	Method for the identification and/or the quantification of a target compound	5/16/2000	4598960	10/1/2010	NSPH
EUROPEAN PATENTS						
91	00-713-F	Nanoparticles having oligonucleotides attached thereto and uses therefor	7/21/1997	EP 0918885	4/11/2007	NSPH
92	00-713-F1	Nanoparticles having oligonucleotides attached thereto and uses therefor	7/21/1997	EP 1818417	2/12/2014	NSPH
93	00-713-F2	Nanoparticles having oligonucleotides attached thereto and uses therefor	7/21/1997	GB 0918885	4/11/2007	NSPH
94	00-713-F3	Nanoparticles having oligonucleotides attached thereto and uses therefor	7/21/1997	CH 0918885	4/11/2007	NSPH
95	00-713-F4	Nanoparticles having oligonucleotides attached thereto and uses therefor	7/21/2007	DE 0918885	4/11/2007	NSPH
96	00-713-F5	Nanoparticles having oligonucleotides attached thereto and uses therefor	7/21/2007	ES 0918885	4/11/2007	NSPH
97	00-713-F6	Nanoparticles having oligonucleotides attached thereto and uses therefor	7/21/2007	FR 0918885	4/11/2007	NSPH
98	00-713-F7	Nanoparticles having oligonucleotides attached thereto and uses therefor	7/21/2007	IT 0918885	4/11/2007	NSPH
99	00-713-Q-EP	Nanoparticles having oligonucleotides attached thereto and uses therefor	6/26/2000	EP 1198591	3/16/2011	Joint with Northwestern University
100	00-713-Q-DE	Nanoparticles having oligonucleotides attached thereto and uses therefor	6/26/2000	DE 1198591	3/16/2011	Joint with Northwestern University
101	00-713-Q-FR	Nanoparticles having oligonucleotides attached thereto and uses therefor	6/26/2000	FR 1198591	3/16/2011	Joint with Northwestern University
102	00-713-Q-GB	Nanoparticles having oligonucleotides attached thereto and uses therefor	6/26/2000	GB 1198591	3/16/2011	Joint with Northwestern University
103	00-714-E	Nanoparticles with polymer shells	11/30/1999	EP 1135682	7/11/2007	NSPH
104	00-714-E-DE	Nanoparticles with polymer shells	11/30/1999	DE 1135682	7/11/2007	NSPH
105	00-714-E-FR	Nanoparticles with polymer shells	11/30/1999	FR 1135682	7/11/2007	NSPH

106	00-714-E-GB	Nanoparticles with polymer shells	11/30/1999	GB 1135682	7/11/2007	NSPH
107	00-715-F	Nanoparticles having oligonucleotides attached thereto and uses therefor	1/21/2001	EP 1294930	3/30/2011	Joint with Northwestern University
108	00-715-F-DE	Nanoparticles having oligonucleotides attached thereto and uses therefor	1/21/2001	DE 1294930	3/30/2011	Joint with Northwestern University
109	00-715-F-FR	Nanoparticles having oligonucleotides attached thereto and uses therefor	1/21/2001	FR 1294930	3/30/2011	Joint with Northwestern University
110	00-715-F-GB	Nanoparticles having oligonucleotides attached thereto and uses therefor	1/21/2001	GB 1294930	3/30/2011	Joint with Northwestern University
111	00-1085-E	Nanoparticles having oligonucleotides attached thereto and uses therefor	3/28/2001	EP 1301625	11/3/2010	Joint with Northwestern University
112	00-1085-E-DE	Nanoparticles having oligonucleotides attached thereto and uses therefor	3/28/2001	DE 1301625	11/3/2010	Joint with Northwestern University
113	00-1085-E-FR	Nanoparticles having oligonucleotides attached thereto and uses therefor	3/28/2001	FR 1301625	11/3/2010	Joint with Northwestern University
114	00-1085-E-GB	Nanoparticles having oligonucleotides attached thereto and uses therefor	3/28/2001	GB 1301625	11/3/2010	Joint with Northwestern University
115	00-1086-E	Method of detection by enhancement of silver staining	7/11/2001	EP 1360318	3/14/2007	Northwestern University
116	00-1086-E1	Method of detection by enhancement of silver staining	7/11/2001	DE 1360318	3/14/2007	Northwestern University
117	00-1086-E2	Method of detection by enhancement of silver staining	7/11/2001	FR 1360318	3/14/2007	Northwestern University
118	00-1086-E3	Method of detection by enhancement of silver staining	7/11/2001	GB 1360318	3/14/2007	Northwestern University
119	01-599-E	Bioconjugate-nanoparticle probes	11/8/2002	EP 1466015	8/6/2008	NSPH
120	01-599-E-DE	Bioconjugate-nanoparticle probes	11/8/2002	DE 1466015	8/6/2008	NSPH
121	01-599-E-FR	Bioconjugate-nanoparticle probes	11/8/2002	FR 1466015	8/6/2008	NSPH

122	01-661-G	Non-alloying core shell nanoparticles	5/22/2002	EP 1392872	3/14/2007	Northwestern University
123	01-661-G1	Non-alloying core shell nanoparticles	5/22/2002	DE 1392872	3/14/2007	Northwestern University
124	01-661-G2	Non-alloying core shell nanoparticles	5/22/2002	FR 1392872	3/14/2007	Northwestern University
125	01-661-G3	Non-alloying core shell nanoparticles	5/22/2002	GB 1392872	3/14/2007	Northwestern University
126	01-801-F	Nanoparticle imaging system and method	8/2/2002	EP 1412536	2/25/2009	NSPH
127	01-801-F-DE	Nanoparticle imaging system and method	8/2/2002	DE 1412536	2/25/2009	NSPH
128	01-801-F-FR	Nanoparticle imaging system and method	8/2/2002	FR 1412536	2/25/2009	NSPH
129	01-801-F-GB	Nanoparticle imaging system and method	8/2/2002	GB 1412536	2/25/2009	NSPH
130	01-1633-E	Nanoparticle Polyanion Conjugates and Methods of Use Thereof in Detecting Analytes	7/2/2003	EP 1540006	1/7/2009	NSPH
131	01-1633-E-DE	Nanoparticle Polyanion Conjugates and Methods of Use Thereof in Detecting Analytes	7/2/2003	DE 1540006	1/7/2009	NSPH
132	01-1633-E-FR	Nanoparticle Polyanion Conjugates and Methods of Use Thereof in Detecting Analytes	7/2/2003	FR 1540006	1/7/2009	NSPH
133	01-1633-E-GB	Nanoparticle Polyanion Conjugates and Methods of Use Thereof in Detecting Analytes	7/2/2003	GB 1540006	1/7/2009	NSPH
134	01-1705-D	Bio-barcodes based on oligonucleotide-modified particles	3/27/2002	EP 379693	5/20/2009	Northwestern University
135	01-1705-D-DE	Bio-barcodes based on oligonucleotide-modified particles	3/27/2002	DE 1379693	5/20/2009	Northwestern University
136	01-1705-D-FR	Bio-barcodes based on oligonucleotide-modified particles	3/27/2002	FR 1379693	5/20/2009	Northwestern University

137	01-1705-D-GB	Bio-barcodes based on oligonucleotide-modified particles	3/27/2002	GB 1379693	5/20/2009	Northwestern University
138	02-035-F	Hybridization Device and Method	1/27/2003	EP 1487580	9/14/2011	NSPH
139	02-035-F-DE	Hybridization Device and Method	1/27/2003	DE 1487580	9/14/2011	NSPH
140	02-035-F-FR	Hybridization Device and Method	1/27/2003	FR 1487580	9/14/2011	NSPH
141	02-035-F-GB	Hybridization Device and Method	1/27/2003	GB 1487580	9/14/2011	NSPH
142	02-334-F	Method for attachment of silylated molecules to glass surfaces	5/6/2005	EP 1759210	12/31/2008	NSPH
143	02-334-F-DE	Method for attachment of silylated molecules to glass surfaces	5/6/2005	DE 1759210	12/31/2008	NSPH
144	02-334-F-FR	Method for attachment of silylated molecules to glass surfaces	5/6/2005	FR 1759210	12/31/2008	NSPH
145	02-334-F-GB	Method for attachment of silylated molecules to glass surfaces	5/6/2005	GB 1759210	12/31/2008	NSPH
146	02-338-G	Nanoparticle probes with Raman Spectroscopic fingerprints for analyte detection	5/7/2003	EP 1499889	7/6/2011	Northwestern University
147	02-338-G-DE	Nanoparticle probes with Raman Spectroscopic fingerprints for analyte detection	5/7/2003	DE 1499889	7/6/2011	Northwestern University
148	02-338-G-FR	Nanoparticle probes with Raman Spectroscopic fingerprints for analyte detection	5/7/2003	FR 1499889	7/6/2011	Northwestern University
149	02-338-G-GB	Nanoparticle probes with Raman Spectroscopic fingerprints for analyte detection	5/7/2003	GB 1499889	7/6/2011	Northwestern University
150	02-1227-E	Direct SNP detection with unamplified DNA	12/12/2003	EP 1578952	11/23/2011	NSPH
151	02-1227-E-DE	Direct SNP detection with unamplified DNA	12/12/2003	DE 1578952	11/23/2011	NSPH
152	02-1227-E-FR	Direct SNP detection with unamplified DNA	12/12/2003	FR 1578952	11/23/2011	NSPH

153	02-1227-E-GB	Direct SNP detection with unamplified DNA	12/12/2003	GB 1578952	11/23/2011	NSPH
154	03-466-H	Method for detecting analytes based on evanescent illumination and scatter-based detection of nanoparticle probe complexes	5/27/2004	EP 1639370	9/2/2009	NSPH
155	03-466-H-DE	Method for detecting analytes based on evanescent illumination and scatter-based detection of nanoparticle probe complexes	5/27/2004	DE 1639370	9/2/2009	NSPH
156	03-466-H-FR	Method for detecting analytes based on evanescent illumination and scatter-based detection of nanoparticle probe complexes	5/27/2004	FR 1639370	9/2/2009	NSPH
157	03-466-H-GB	Method for detecting analytes based on evanescent illumination and scatter-based detection of nanoparticle probe complexes	5/27/2004	GB 1639370	9/2/2009	NSPH
158	03-666-L	Bio-Barcode Based Detection Of Target Analytes	6/25/2004	EP 1649055	5/20/2009	Northwestern University
159	03-666-L-DE	Bio-Barcode Based Detection Of Target Analytes	6/25/2004	DE 1649055	5/20/2009	Northwestern University
160	03-666-L-FR	Bio-Barcode Based Detection Of Target Analytes	6/25/2004	FR 1649055	5/20/2009	Northwestern University
161	03-666-L-GB	Bio-Barcode Based Detection Of Target Analytes	6/25/2004	GB 1649055	5/20/2009	Northwestern University
162	03-666-R	Bio-Barcode Based Detection Of Target Analytes	5/12/2005	EP 1747295	1/11/2012	Northwestern University
163	03-666-R-DE	Bio-Barcode Based Detection Of Target Analytes	5/12/2005	DE 1747295	1/11/2012	Northwestern University

164	03-666-R-FR	Bio-Barcode Based Detection Of Target Analytes	5/12/2005	FR1747295	1/11/2012	Northwestern University
165	03-666-R-GB	Bio-Barcode Based Detection Of Target Analytes	5/12/2005	GB1747295	1/11/2012	Northwestern University
166	04-060-E	Aptamer-nanoparticle conjugates and method of use for target analyte detection	5/3/2005	EP 1766085	3/11/2009	NSPH
167	04-060-E-DE	Aptamer-nanoparticle conjugates and method of use for target analyte detection	5/3/2005	DE 1766085	3/11/2009	NSPH
168	04-060-E-FR	Aptamer-nanoparticle conjugates and method of use for target analyte detection	5/3/2005	FR 1766085	3/11/2009	NSPH
169	04-060-E-GB	Aptamer-nanoparticle conjugates and method of use for target analyte detection	5/3/2005	GB 1766085	3/11/2009	NSPH
170	05-539-C	Methods For Preparing Hybrid Substrates Comprising Dna And Antibodies And Uses Thereof	8/18/2006	EP 1915466	11/24/2010	NSPH
171	06-373-D	Ultra-Sensitive Detection of Analytes	7/10/2007	EP2038656	5/2/2012	NSPH
172	06-373-D-DE	Ultra-Sensitive Detection of Analytes	7/10/2007	DE2038656	5/2/2012	NSPH
173	06-373-D-FR	Ultra-Sensitive Detection of Analytes	7/10/2007	FR2038656	5/2/2012	NSPH
174	06-373-D-GB	Ultra-Sensitive Detection of Analytes	7/10/2007	GB2038656	5/2/2012	NSPH
175	90483-EP	Method Of Preparing Nucleic Acids For Detection	11/4/2004	EP 1682681	8/31/2011	NSPH
176	90483-DE	Method Of Preparing Nucleic Acids For Detection	11/4/2004	DE 1682681	8/31/2011	NSPH

177	90483-FR	Method Of Preparing Nucleic Acids For Detection	11/4/2004	FR 1682681	8/31/2011	NSPH
178	90483-GB	Method Of Preparing Nucleic Acids For Detection	11/4/2004	GB 1682681	8/31/2011	NSPH
179	96474-EP	Method of Denaturing and Fragmenting DNA or RNA Using Ultrasound	7/24/2007	EP 2046990	5/7/2014	NSPH
180	96777-EP	System Using Disposable Self-Contained Processing Module for Detecting Nucleic Acids	7/24/2007	EP 2046942	1/30/2015	NSPH

181	96/777-DE	System Using Disposable Self-Contained Processing Module for Detecting Nucleic Acids	7/24/2007	DE 2046942	1/30/2015	NSPH
182	96/777-FR	System Using Disposable Self-Contained Processing Module for Detecting Nucleic Acids	7/24/2007	FR 2046942	1/30/2015	NSPH
183	96/777-GB	System Using Disposable Self-Contained Processing Module for Detecting Nucleic Acids	7/24/2007	GB 2046942	1/30/2015	NSPH
184	EPP-EP	Method for the identification and/or the quantification of a target compound	5/16/2000	EP 1179180	10/9/2002	NSPH
185	EPP-EP-BE	Method for the identification and/or the quantification of a target compound	5/16/2000	BE 1179180	10/9/2002	NSPH
186	EPP-EP-DE	Method for the identification and/or the quantification of a target compound	5/16/2000	DE 1179180	10/9/2002	NSPH
187	EPP-EP-ES	Method for the identification and/or the quantification of a target compound	5/16/2000	ES 1179180	10/9/2002	NSPH
188	EPP-EP-FR	Method for the identification and/or the quantification of a target compound	5/16/2000	FR 1179180	10/9/2002	NSPH
189	EPP-EP-GB	Method for the identification and/or the quantification of a target compound	5/16/2000	GB 1179180	10/9/2002	NSPH
190	EPP-EP-IT	Method for the identification and/or the quantification of a target compound	5/16/2000	IT 1179180	10/9/2002	NSPH
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191	EPP-IN1	Method for the identification and/or the quantification of a target compound	5/16/2000	206029	4/13/2007	NSPH
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	TITLE	FILING DATE	APPLICATION NO.	OWNERSHIP
	US APPLICATIONS			
1	13-0742-US2 Multilinker Disulfide Probe For DNA or Protein Detection	3/14/2014	14/212,487	NSPH
2	6114-00001 Diagnostic Cartridges Having Flexible Seals	4/22/2014	14/693,470	NSPH
	CANADIAN APPLICATIONS			
3	03-666-J Bio-Barcode Based Detection Of Target Analytes	12/19/2005	CA2529898	Northwestern University
4	03-666-P Bio-Barcode Based Detection Of Target Analytes	10/31/2006	CA2565166	Northwestern University
	JAPANESE APPLICATIONS			
5	80483-JP Nucleic Acids For Detection	5/8/2006	JP 2006-539673	NSPH

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