

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3052198

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
SYNAPTICS INCORPORATED	09/30/2014

RECEIVING PARTY DATA

Name:	WELLS FARGO BANK, NATIONAL ASSOCIATION
Street Address:	1525 WEST W.T. HARRIS BLVD.
Internal Address:	MAC D1109-019 / SYNDICATION AGENCY SERVICES
City:	CHARLOTTE
State/Country:	NORTH CAROLINA
Postal Code:	28262

PROPERTY NUMBERS Total: 154

Property Type	Number
Application Number:	12979771
Application Number:	13024539
Application Number:	13745222
Application Number:	13874400
Application Number:	13899421
Application Number:	13916533
Application Number:	13922187
Application Number:	13929514
Application Number:	13929680
Application Number:	13930966
Application Number:	13931529
Application Number:	13930695
Application Number:	13930749
Application Number:	13947617
Application Number:	13950176
Application Number:	13973138
Application Number:	13973951
Application Number:	14013322
Application Number:	14017290
Application Number:	14021583

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Property Type	Number
Application Number:	14033151
Application Number:	14033068
Application Number:	14037882
Application Number:	14038466
Application Number:	14037939
Application Number:	14039281
Application Number:	14040589
Application Number:	14042498
Application Number:	14041531
Application Number:	14042661
Application Number:	14042673
Application Number:	61885260
Application Number:	61885473
Application Number:	61885478
Application Number:	61885989
Application Number:	61886011
Application Number:	61885999
Application Number:	61886025
Application Number:	61886019
Application Number:	61886029
Application Number:	61891870
Application Number:	61891843
Application Number:	61892361
Application Number:	61892995
Application Number:	61893138
Application Number:	61893143
Application Number:	14061593
Application Number:	14064022
Application Number:	14067792
Application Number:	14067863
Application Number:	14067801
Application Number:	14084507
Application Number:	14091171
Application Number:	14091173
Application Number:	61908807
Application Number:	14092440
Application Number:	14137481
Application Number:	14137463
Application Number:	14137692

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Property Type	Number
Application Number:	14137581
Application Number:	14145724
Application Number:	14149089
Application Number:	14151783
Application Number:	61925630
Application Number:	14150824
Application Number:	61928963
Application Number:	14158254
Application Number:	14170536
Application Number:	14171080
Application Number:	14171106
Application Number:	61935732
Application Number:	61935724
Application Number:	14176952
Application Number:	14178150
Application Number:	14180024
Application Number:	14180144
Application Number:	14187220
Application Number:	61945958
Application Number:	14205132
Application Number:	61952837
Application Number:	61953671
Application Number:	14212815
Application Number:	14219996
Application Number:	61968962
Application Number:	14224032
Application Number:	14229559
Application Number:	14229595
Application Number:	14231445
Application Number:	14231108
Application Number:	14231303
Application Number:	14230315
Application Number:	14230325
Application Number:	14230613
Application Number:	14231314
Application Number:	61973937
Application Number:	61975362
Application Number:	61975703
Application Number:	61976932

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Property Type	Number
Application Number:	61984591
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Application Number:	14268070
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Application Number:	61992800
Application Number:	14278893
Application Number:	14283201
Application Number:	62000740
Application Number:	14292842
Application Number:	14293714
Application Number:	62007257
Application Number:	62007277
Application Number:	14297373
Application Number:	14298807
Application Number:	14305840
Application Number:	14308986
Application Number:	14313711
Application Number:	14318219
Application Number:	14320521
Application Number:	14319635
Application Number:	14319728
Application Number:	14318837
Application Number:	14320285
Application Number:	14319434
Application Number:	14320125
Application Number:	14319264
Application Number:	14319605
Application Number:	14320005
Application Number:	14320034
Application Number:	62020854
Application Number:	14327530
Application Number:	14331760
Application Number:	62027772
Application Number:	14448587

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Property Type	Number
Application Number:	14448527
Application Number:	62035992
Application Number:	62036037
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Application Number:	62036020
Application Number:	62036023
Application Number:	62036026
Application Number:	62036031
Application Number:	62035998
Application Number:	62038231
Application Number:	14462126
Application Number:	62040969
Application Number:	14466600
Application Number:	14482121
Application Number:	14483868

CORRESPONDENCE DATA

Fax Number: (949)567-6710

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: 212-506-5150

Email: achen@orrick.com

Correspondent Name: ORRICK, HERRINGTON & SUTCLIFFE LLP

Address Line 1: 2050 MAIN STREET, SUITE 1100

Address Line 2: IP PROSECUTION DEPARTMENT

Address Line 4: IRVINE, CALIFORNIA 92614-8255

ATTORNEY DOCKET NUMBER:	1696-580
NAME OF SUBMITTER:	BRADFORD S. BREEN
SIGNATURE:	/Bradford Breen/
DATE SIGNED:	10/03/2014

Total Attachments: 16

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UNPUBLISHED PATENT SECURITY AGREEMENT

This **UNPUBLISHED PATENT SECURITY AGREEMENT**, dated as of September 30, 2014 (as amended, restated, supplemented or otherwise modified from time to time, this "Agreement"), is made by the entity identified as a grantor on the signature pages hereto (the "Grantor") in favor of WELLS FARGO BANK, NATIONAL ASSOCIATION, as administrative agent for the Secured Parties (in such capacity and together with its successors and permitted assigns, the "Administrative Agent").

WHEREAS the Grantor is party to a Collateral Agreement, dated as of the date hereof (as amended, restated, supplemented or otherwise modified from time to time, the "Collateral Agreement") among the Grantor and the other grantors from time to time party thereto and the Administrative Agent pursuant to which the Grantor granted a security interest to the Administrative Agent in the Patent Collateral (as defined below) and is required to execute and deliver this Agreement.

NOW, THEREFORE, in consideration of the foregoing and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Grantor hereby agrees with the Administrative Agent as follows:

SECTION 1. DEFINED TERMS

Unless otherwise defined herein, terms used herein (including in the preamble of this Agreement) shall have the meanings given to them in the Collateral Agreement and the Credit Agreement (as defined in the Collateral Agreement), as applicable.

SECTION 2. GRANT OF SECURITY INTEREST

The Grantor, as security for the payment and performance in full of the Secured Obligations of the Grantor (including, without limitation, if the Grantor is a Subsidiary Guarantor, the Secured Obligations of the Grantor arising under the Subsidiary Guaranty Agreement), hereby pledges to the Administrative Agent for the benefit of the Secured Parties, and hereby grants to the Administrative Agent for the benefit of the Secured Parties, a security interest in all right, title and interest in or to any and all of the following assets and properties now owned or at any time hereafter acquired by the Grantor or in which the Grantor now has or at any time in the future may acquire any right, title or interest (collectively, the "Patent Collateral"):

- (i) all patents, all inventions and patent applications anywhere in the United States, including, without limitation, registrations, recordings and pending applications in the United States Patent and Trademark Office ("USPTO"), including any of the foregoing listed on Schedule A hereto,
- (ii) all reissues, extensions, continuations (in whole or in part) and renewals of any of the foregoing,

(iii) all income, royalties, damages or payments now or hereafter due and/or payable under any of the foregoing or with respect to any of the foregoing, including, without limitation, damages or payments for past, present or future infringements of any of the foregoing,

(iv) the right to sue for past, present and future infringements of any of the foregoing,

(v) all rights corresponding to any of the foregoing, and

(vi) to the extent not otherwise included, all Proceeds and products of any and all of the foregoing, all Accessions to any of the foregoing and all collateral security and Supporting Obligations (as now or hereafter defined in the UCC) given by any Person with respect to any of the foregoing;

provided that the security interest granted herein shall not extend to, and the term "Patent Collateral" shall not include, (a) any obligation or property of any kind due from, owed by or belonging to any Sanctioned Person or (b) any Excluded Assets.

SECTION 3. COLLATERAL AGREEMENT

The security interest granted pursuant to this Agreement is granted in conjunction with the security interest granted to the Administrative Agent for the ratable benefit of itself and the other Secured Parties pursuant to the Collateral Agreement, and the Grantor hereby acknowledges and affirms that the rights and remedies of the Administrative Agent with respect to the security interest in the Patent Collateral made and granted hereby are more fully set forth in the Collateral Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein. In the event that any provision of this Agreement is deemed to conflict with the Collateral Agreement, the provisions of the Collateral Agreement shall control.

SECTION 4. RECORDATION

The Grantor hereby authorizes and requests that the USPTO record this Agreement.

SECTION 5. TERMINATION

This Agreement shall terminate and the lien on and security interest in the Patent Collateral shall be released upon the payment and performance of the Secured Obligations (other than contingent indemnification obligations not then due). Upon the termination of this Agreement, the Administrative Agent shall, at the expense of the Grantor, execute all documents, make all filings and take all other actions reasonably requested by the Grantor to evidence and record the release of the lien on and security interests in the Patent Collateral granted herein.

SECTION 6. GOVERNING LAW

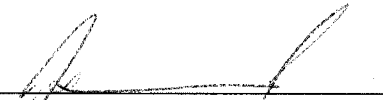
This Agreement shall be governed by, and construed in accordance with, the laws of the State of New York.

SECTION 7. COUNTERPARTS

This Agreement may be executed in any number of counterparts and by different parties hereto in separate counterparts, each of which when so executed shall be deemed to be an original and shall be binding upon all parties, their successors and assigns, and all of which taken together shall constitute one and the same agreement. Delivery of an executed counterpart of a signature page to this Agreement or any document or instrument delivered in connection herewith by facsimile or other electronic transmission shall be effective as delivery of a manually executed counterpart of this Agreement or such other document or instrument, as applicable.

IN WITNESS WHEREOF, the Grantor has caused this Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

SYNAPTICS INCORPORATED, as Grantor

By: 
Name: John McFarland
Title: Senior Vice President

OHSUSA:759236054

[Signature Page – Unpublished Patent Security Agreement]

Acknowledged and Agreed:

**WELLS FARGO BANK, NATIONAL
ASSOCIATION**, as Administrative Agent

By: Karen Byler
Name: *KAREN Byler*
Title: *SVP*

SCHEDULE A
to
PATENT SECURITY AGREEMENT

[See Attached]

Schedule A

OHSUSA:759236054

PATENT
REEL: 033889 FRAME: 0050

Filed Date	App No.	Current Owners
28 Dec 2010	12/979,771	Synaptics Incorporated
10 Feb 2011	13/024,539	Synaptics Incorporated
18 Jan 2013	13/745,222	Synaptics Incorporated
30 Apr 2013	13/874,400	Synaptics Incorporated
21 May 2013	13/899,421	Synaptics Incorporated
12 Jun 2013	13/916,533	Synaptics Incorporated
19 Jun 2013	13/922,187	Synaptics Incorporated
27 Jun 2013	13/929,514	Synaptics Incorporated
27 Jun 2013	13/929,680	Synaptics Incorporated
28 Jun 2013	13/930,966	Synaptics Incorporated
28 Jun 2013	13/931,529	Synaptics Incorporated
28 Jun 2013	13/930,695	Synaptics Incorporated
28 Jun 2013	13/930,749	Synaptics Incorporated
22 Jul 2013	13/947,617	Synaptics Incorporated
24 Jul 2013	13/950,176	Synaptics Incorporated
22 Aug 2013	13/973,138	Synaptics Incorporated

22 Aug 2013	13/973,951	Synaptics Incorporated
29 Aug 2013	14/013,322	Synaptics Incorporated
03 Sep 2013	14/017,290	Synaptics Incorporated
09 Sep 2013	14/021,583	Synaptics Incorporated
20 Sep 2013	14/033,151	Synaptics Incorporated
20 Sep 2013	14/033,068	Synaptics Incorporated
26 Sep 2013	14/037,882	Synaptics Incorporated
26 Sep 2013	14/038,466	Synaptics Incorporated
26 Sep 2013	14/037,939	Synaptics Incorporated
27 Sep 2013	14/039,281	Synaptics Incorporated
27 Sep 2013	14/040,589	Synaptics Incorporated
30 Sep 2013	14/042,498	Synaptics Incorporated
30 Sep 2013	14/041,531	Synaptics Incorporated
30 Sep 2013	14/042,661	Synaptics Incorporated
30 Sep 2013	14/042,673	Synaptics Incorporated
01 Oct 2013	61/885,260	Synaptics Incorporated
01 Oct 2013	61/885,473	Synaptics Incorporated

01 Oct 2013	61/885,478	Synaptics Incorporated
02 Oct 2013	61/885,989	Synaptics Incorporated
02 Oct 2013	61/886,011	Synaptics Incorporated
02 Oct 2013	61/885,999	Synaptics Incorporated
02 Oct 2013	61/886,025	Synaptics Incorporated
02 Oct 2013	61/886,019	Synaptics Incorporated
02 Oct 2013	61/886,029	Synaptics Incorporated
16 Oct 2013	61/891,870	Synaptics Incorporated
16 Oct 2013	61/891,843	Synaptics Incorporated
17 Oct 2013	61/892,361	Synaptics Incorporated
18 Oct 2013	61/892,995	Synaptics Incorporated
18 Oct 2013	61/893,138	Synaptics Incorporated
18 Oct 2013	61/893,143	Synaptics Incorporated
23 Oct 2013	14/061,593	Synaptics Incorporated
25 Oct 2013	14/064,022	Synaptics Incorporated
30 Oct 2013	14/067,792	Synaptics Incorporated
30 Oct 2013	14/067,863	Synaptics Incorporated

30 Oct 2013	14/067,801	Synaptics Incorporated
19 Nov 2013	14/084,507	Synaptics Incorporated
26 Nov 2013	14/091,171	Synaptics Incorporated
26 Nov 2013	14/091,173	Synaptics Incorporated
26 Nov 2013	61/908,807	Synaptics Incorporated
27 Nov 2013	14/092,440	Synaptics Incorporated
20 Dec 2013	14/137,481	Synaptics Incorporated
20 Dec 2013	14/137,463	Synaptics Incorporated
20 Dec 2013	14/137,692	Synaptics Incorporated
20 Dec 2013	14/137,581	Synaptics Incorporated
31 Dec 2013	14/145,724	Synaptics Incorporated
07 Jan 2014	14/149,089	Synaptics Incorporated
09 Jan 2014	14/151,783	Synaptics Incorporated
09 Jan 2014	61/925,630	Synaptics Incorporated
09 Jan 2014	14/150,824	Synaptics Incorporated
17 Jan 2014	61/928,963	Synaptics Incorporated
17 Jan 2014	14/158,254	Synaptics Incorporated

31 Jan 2014	14/170,536	Synaptics Incorporated
03 Feb 2014	14/171,080	Synaptics Incorporated
03 Feb 2014	14/171,106	Synaptics Incorporated
04 Feb 2014	61/935,732	Synaptics Incorporated
04 Feb 2014	61/935,724	Synaptics Incorporated
10 Feb 2014	14/176,952	Synaptics Incorporated
11 Feb 2014	14/178,150	Synaptics Incorporated
13 Feb 2014	14/180,024	Synaptics Incorporated
13 Feb 2014	14/180,144	Synaptics Incorporated
21 Feb 2014	14/187,220	Synaptics Incorporated
28 Feb 2014	61/945,958	Synaptics Incorporated
11 Mar 2014	14/205,132	Synaptics Incorporated
13 Mar 2014	61/952,837	Synaptics Incorporated
14 Mar 2014	61/953,671	Synaptics Incorporated
14 Mar 2014	14/212,815	Synaptics Incorporated
19 Mar 2014	14/219,996	Synaptics Incorporated
21 Mar 2014	61/968,962	Synaptics Incorporated

24 Mar 2014	14/224,032	Synaptics Incorporated
28 Mar 2014	14/229,559	Synaptics Incorporated
28 Mar 2014	14/229,595	Synaptics Incorporated
31 Mar 2014	14/231,445	Synaptics Incorporated
31 Mar 2014	14/231,108	Synaptics Incorporated
31 Mar 2014	14/231,303	Synaptics Incorporated
31 Mar 2014	14/230,315	Synaptics Incorporated
31 Mar 2014	14/230,325	Synaptics Incorporated
31 Mar 2014	14/230,613	Synaptics Incorporated
31 Mar 2014	14/231,314	Synaptics Incorporated
02 Apr 2014	61/973,937	Synaptics Incorporated
04 Apr 2014	61/975,362	Synaptics Incorporated
04 Apr 2014	61/975,703	Synaptics Incorporated
08 Apr 2014	61/976,932	Synaptics Incorporated
25 Apr 2014	61/984,591	Synaptics Incorporated
25 Apr 2014	61/984,577	Synaptics Incorporated
25 Apr 2014	61/984,551	Synaptics Incorporated

25 Apr 2014	61/984,656	Synaptics Incorporated
29 Apr 2014	61/986,065	Synaptics Incorporated
29 Apr 2014	61/986,072	Synaptics Incorporated
29 Apr 2014	61/985,916	Synaptics Incorporated
02 May 2014	14/268,070	Synaptics Incorporated
02 May 2014	14/268,064	Synaptics Incorporated
13 May 2014	61/992,800	Synaptics Incorporated
15 May 2014	14/278,893	Synaptics Incorporated
20 May 2014	14/283,201	Synaptics Incorporated
20 May 2014	62/000,740	Synaptics Incorporated
31 May 2014	14/292,842	Synaptics Incorporated
02 Jun 2014	14/293,714	Synaptics Incorporated
03 Jun 2014	62/007,257	Synaptics Incorporated
03 Jun 2014	62/007,277	Synaptics Incorporated
05 Jun 2014	14/297,373	Synaptics Incorporated
06 Jun 2014	14/298,807	Synaptics Incorporated
16 Jun 2014	14/305,840	Synaptics Incorporated

19 Jun 2014	14/308,986	Synaptics Incorporated
24 Jun 2014	14/313,711	Synaptics Incorporated
27 Jun 2014	14/318,219	Synaptics Incorporated
30 Jun 2014	14/320,521	Synaptics Incorporated
30 Jun 2014	14/319,635	Synaptics Incorporated
30 Jun 2014	14/319,728	Synaptics Incorporated
30 Jun 2014	14/318,837	Synaptics Incorporated
30 Jun 2014	14/320,285	Synaptics Incorporated
30 Jun 2014	14/319,434	Synaptics Incorporated
30 Jun 2014	14/320,125	Synaptics Incorporated
30 Jun 2014	14/319,264	Synaptics Incorporated
30 Jun 2014	14/319,605	Synaptics Incorporated
30 Jun 2014	14/320,005	Synaptics Incorporated
30 Jun 2014	14/320,034	Synaptics Incorporated
03 Jul 2014	62/020,854	Synaptics Incorporated
09 Jul 2014	14/327,530	Synaptics Incorporated
15 Jul 2014	14/331,760	Synaptics Incorporated

22 Jul 2014	62/027,772	Synaptics Incorporated
24 Jul 2014	14/399,656	Synaptics Incorporated
31 Jul 2014	14/448,587	Synaptics Incorporated
31 Jul 2014	14/448,527	Synaptics Incorporated
11 Aug 2014	62/035,992	Synaptics Incorporated
11 Aug 2014	62/036,037	Synaptics Incorporated
11 Aug 2014	62/036,006	Synaptics Incorporated
11 Aug 2014	62/036,010	Synaptics Incorporated
11 Aug 2014	62/036,017	Synaptics Incorporated
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11 Aug 2014	62/036,023	Synaptics Incorporated
11 Aug 2014	62/036,026	Synaptics Incorporated
11 Aug 2014	62/036,031	Synaptics Incorporated
11 Aug 2014	62/035,998	Synaptics Incorporated
16 Aug 2014	62/038,231	Synaptics Incorporated
18 Aug 2014	14/462,126	Synaptics Incorporated
22 Aug 2014	62/040,969	Synaptics Incorporated

22 Aug 2014 14/466,600 Synaptics Incorporated

10 Sep 2014 14/482,121 Synaptics Incorporated

11 Sep 2014 14/483,868 Synaptics Incorporated