

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4654952

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	OFINNO TECHNOLOGIES, LLC	08/16/2016
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	COMCAST CABLE COMMUNICATIONS, LLC	
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<b>City:</b>	PHILADELPHIA	
<b>State/Country:</b>	PENNSYLVANIA	
<b>Postal Code:</b>	19103	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	15790573
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>		
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<b>Address Line 1:</b>	1100 13TH STREET, N.W.	
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<b>ATTORNEY DOCKET NUMBER:</b>	007412.03819	
<b>NAME OF SUBMITTER:</b>	JUSTIN M. PHILPOTT	
<b>SIGNATURE:</b>	/Justin M. Philpott/	
<b>DATE SIGNED:</b>	10/24/2017	
<b>Total Attachments: 7</b>		
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*Assignment of Patent Rights*

This patent assignment (this "**Assignment**") is entered into as of the Effective Date set forth below by and between Ofinno Technologies, LLC ("**Assignor**") and Comcast Cable Communications, LLC ("**Assignee**").

**WHEREAS**, Assignor holds the entire right, title and interest in the patents and patent applications identified and set forth on Appendix A attached hereto (the "Patents");

**WHEREAS**, Assignee is desirous of securing the entire right, title and interest in and to the Patents in all countries throughout the world; and

**WHEREAS**, Assignor and Assignee entered into a Patent Purchase Agreement, dated August 16, 2016 pursuant to which Assignor agreed to sell to Assignee certain patents and patent applications including the Patents (the "Patent Purchase Agreement").

For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor does hereby irrevocably as of the Effective Date sell, assign, transfer and convey unto Assignee, or Assignee's designee(s), all of Assignor's right, title and interest throughout the world in and to all of the following:

- (a) the Patents;
- (b) all patent applications patents and/or other similar governmental grants or issuances worldwide (i) from which any of the Patents directly or indirectly claims priority and/or (ii) for which any of the Patents directly or indirectly forms a basis for priority;
- (c) any reissues, reexaminations, extensions, continuations, continuations in part, continuing prosecution applications, requests for continuing examinations, divisions and registrations of and rights to claim priority to any item in any of the foregoing categories (a) and (b);
- (d) foreign patents, patent applications and counterparts relating to any item in any of the foregoing categories (a) through (c), including, without limitation, certificates of invention, utility models, industrial design protection, design patent protection and/or other governmental grants or issuances;
- (e) any items in any of the foregoing categories (a) through (d) whether or not expressly listed as Patents and whether or not claims in any of the foregoing have been rejected, withdrawn or cancelled; and
- (f) all rights to sue and recover damages for past and future infringement of any items in any of the foregoing categories (a) through (e) and all rights to collect royalties or other payments under or on account of any item in any of the foregoing categories (a) through (e) (excluding royalties or payments that have been already collected by Assignor and royalties or payments owed to Assignor under an existing agreement even if not already paid to Assignor, its affiliates or any predecessor of Assignor or Assignor's affiliates, either now or in the future).

Assignor hereby authorizes the Commissioner of Patents and Trademarks in the United States Patent and Trademark Office, and the corresponding entities or agencies in any applicable foreign countries or multinational authorities, to record Assignee as the assignee and owner of the Patents owned by such Assignor and to deliver to Assignee, and to Assignee's attorneys, agents, successors or assigns, all official documents and communications as may be warranted by this Assignment.

The above-granted rights, titles and interests are to be held and enjoyed by Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives and assigns, as fully and entirely as the same would have been held and enjoyed by Assignor had this sale and assignment not been made.

This Assignment shall be interpreted, construed and enforced in all respects in accordance with the laws of the State of Delaware, without reference to its choice of law principles to the contrary. This Assignment may be executed in any number of counterparts, each of which shall be deemed to be an original, and all of which together shall constitute one and the same instrument. Delivery of an executed counterpart of a signature page to this Assignment by facsimile or electronic mail shall be as effective as delivery of a manually executed counterpart of this Assignment. This Assignment may not be supplemented, altered or modified in

any manner except by a writing signed by all parties hereto. The failure of any party to enforce any terms or provisions of this Assignment shall not waive any of its rights under such terms or provisions. The terms and conditions of this Assignment will inure to the benefit of Assignee, its successors, assigns and other legal representatives and will be binding upon Assignor, its successors, assigns and other legal representatives.

**IN WITNESS WHEREOF**, intending to be legally bound, the below identified parties have executed this Assignment as of the 16<sup>th</sup> day of August, 2016 (the "Effective Date").

ASSIGNOR

ASSIGNEE

By: Esmael Dinan

By: \_\_\_\_\_

Name: ESMAEL DINAN

Name: \_\_\_\_\_

Title: CEO

Title: \_\_\_\_\_

Date: Aug 16, 2016

Date: \_\_\_\_\_

any manner except by a writing signed by all parties hereto. The failure of any party to enforce any terms or provisions of this Assignment shall not waive any of its rights under such terms or provisions. The terms and conditions of this Assignment will inure to the benefit of Assignee, its successors, assigns and other legal representatives and will be binding upon Assignor, its successors, assigns and other legal representatives.

**IN WITNESS WHEREOF**, intending to be legally bound, the below identified parties have executed this Assignment as of the 16<sup>th</sup> day of August, 2016 (the "Effective Date").

ASSIGNOR

ASSIGNEE

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

By: \_\_\_\_\_

Name: James J. Finnegan

Title: VP, Strategic Intellectual Property

Date: August 16, 2016

Appendix A to Assignment of Patent Rights

<b>Application No.</b>	<b>Status</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>
13/556,165	Issued	23-Jul-12	8,395,985	3/12/2013
13/539,619	Abandoned	2-Jul-12		
13/540,654	Abandoned	3-Jul-12		
13/556,317	Issued	24-Jul-12	8,391,129	3/5/2013
13/748,583	Issued	23-Jan-13	9,237,537	1/12/2016
13/748,585	Issued	23-Jan-13	8,462,688	6/11/2013
13/748,586	Issued	24-Jan-13	9,161,322	10/13/2015
13/748,587	Issued	24-Jan-13	8,995,405	3/31/2015
PCT/US13/22821	Expired	24-Jan-13		
13/749,688	Issued	25-Jan-13	8,559,405	10/15/2013
13/749,689	Issued	25-Jan-13	8,982,852	3/17/2015
13/749,690	Issued	25-Jan-13	8,588,169	11/19/2013
13/749,692	Issued	25-Jan-13	9,210,675	12/8/2015
13/749,693	Issued	25-Jan-13	8,976,765	3/10/2015
PCT/US13/23036	Expired	25-Jan-13		
13/750,893	Issued	25-Jan-13	9,210,676	12/8/2015
PCT/US13/23316	Expired	25-Jan-13		
13/749,695	Issued	25-Jan-13	8,526,310	9/3/2013
13/750,909	Issued	25-Jan-13	8,526,389	9/3/2013
13/750,939	Issued	25-Jan-13	8,964,780	2/24/2015
13/750,954	Issued	25-Jan-13	8,897,248	11/25/2014
13/787,155	Abandoned	6-Mar-13		
13/787,184	Abandoned	6-Mar-13		
13/787,235	Abandoned	6-Mar-13		
13/787,275	Abandoned	6-Mar-13		
13/787,328	Issued	6-Mar-13	8,964,590	2/24/2015
13/787,370	Issued	6-Mar-13	9,084,270	7/14/2015
13/787,409	Issued	6-Mar-13	9,215,678	12/15/2015
13/787,446	Issued	6-Mar-13	8,934,438	1/13/2015
PCT/US13/29417	Expired	6-Mar-13		
13/862,420	Issued	14-Apr-13	8,989,128	3/24/2015
13/862,421	Issued	14-Apr-13	9,210,664	12/8/2015
PCT/US13/36513	Expired	14-Apr-13		
13/862,423	Issued	14-Apr-13	8,964,683	2/24/2015
13/862,424	Issued	14-Apr-13	8,958,342	2/17/2015
13/862,425	Issued	14-Apr-13	8,964,593	2/24/2015
13/862,426	Issued	14-Apr-13	8,971,280	3/3/2015
13/862,427	Issued	14-Apr-13	9,179,425	11/3/2015

13/862,430	Issued	14-Apr-13	8,995,381	3/31/2015
13/919,980	Issued	17-Jun-13	9,113,387	8/18/2015
13/919,993	Issued	17-Jun-13	9,210,619	12/8/2015
13/920,009	Issued	17-Jun-13	9,179,457	11/3/2015
13/920,012	Issued	17-Jun-13	9,107,206	8/11/2015
13/918,985	Issued	16-Jun-13	8,971,298	3/3/2015
13/918,986	Abandoned	16-Jun-13		
13/918,987	Issued	16-Jun-13	9,084,228	7/14/2015
13/759,766	Issued	5-Feb-13	8,462,610	6/11/2013
13/759,805	Issued	5-Feb-13	8,520,497	8/27/2013
13/887,347	Issued	5-May-13	8,625,404	1/7/2014
13/887,391	Issued	6-May-13	8,537,739	9/17/2013
13/889,825	Issued	8-May-13	8,644,129	2/4/2014
13/899,618	Issued	22-May-13	8,531,966	9/10/2013
13/899,725	Issued	22-May-13	8,547,929	10/1/2013
13/899,764	Issued	22-May-13	8,542,654	9/24/2013
13/918,873	Issued	14-Jun-13	8,553,655	10/8/2013
13/932,027	Issued	1-Jul-13	8,625,405	1/7/2014
13/947,049	Issued	20-Jul-13	8,565,142	10/22/2013
13/947,052	Issued	20-Jul-13	8,553,558	10/8/2013
13/960,729	Issued	6-Aug-13	8,599,785	12/3/2013
13/966,557	Issued	14-Aug-13	8,804,668	8/12/2014
13/966,595	Issued	14-Aug-13	8,625,524	1/7/2014
13/970,702	Issued	20-Aug-13	8,619,727	12/31/2013
14/016,946	Issued	3-Sep-13	8,717,866	5/6/2014
14/016,962	Issued	3-Sep-13	8,699,317	4/15/2014
14/082,230	Issued	18-Nov-13	9,210,667	12/8/2015
14/194,736	Issued	2-Mar-14	9,391,824	7/12/2016
14/202,102	Issued	10-Mar-14	9,397,875	7/19/2016
14/552,005	Issued	24-Nov-14	9,179,454	11/3/2015
14/594,220	Issued	12-Jan-15	9,414,340	8/9/2016
14/597,468	Issued	15-Jan-15	9,386,604	7/5/2016
14/597,483	Issued	15-Jan-15	9,161,323	10/13/2015
14/599,490	Issued	17-Jan-15	9,204,406	12/1/2015
14/599,492	Issued	17-Jan-15	9,241,326	1/19/2016
14/599,493	Pending	17-Jan-15		
14/599,494	Pending	17-Jan-15		
14/599,580	Issued	19-Jan-15	9,179,420	11/3/2015
14/608,241	Issued	29-Jan-15	9,215,051	12/15/2015
14/608,244	Issued	29-Jan-15	9,210,665	12/8/2015
14/616,655	Issued	7-Feb-15	9,204,407	12/1/2015
14/616,774	Pending	9-Feb-15		

14/622,969	Pending	16-Feb-15		
14/797,080	Issued	11-Jul-15	9,220,116	12/22/2015
14/797,082	Pending	11-Jul-15		
14/822,628	Pending	10-Aug-15		
14/824,132	Pending	12-Aug-15		
14/877,961	Pending	8-Oct-15		
14/880,312	Issued	12-Oct-15	9,392,623	7/12/2016
14/929,395	Issued	1-Nov-15	9,363,832	6/7/2016
14/929,398	Pending	1-Nov-15		
14/929,410	Pending	1-Nov-15		
14/929,411	Pending	2-Nov-15		
14/953,774	Pending	30-Nov-15		
14/953,827	Issued	30-Nov-15	9,319,194	4/19/2016
14/959,273	Issued	4-Dec-15	9,386,490	7/5/2016
14/966,309	Pending	11-Dec-15		
14/959,309	Pending	4-Dec-15		
14/966,267	Pending	11-Dec-15		
14/960,391	Issued	6-Dec-15	9,414,332	8/9/2016
14/966,439	Pending	11-Dec-15		
14/960,389	Pending	6-Dec-15		
14/969,682	Pending	15-Dec-15		
15/060,881	Pending	4-Mar-16		
15/201,527	Pending	4-Jul-16		
15/201,528	Pending	4-Jul-16		
15/201,529	Pending	4-Jul-16		
15/201,544	Pending	4-Jul-16		
15/201,558	Pending	4-Jul-16		
15/201,560	Pending	4-Jul-16		
15/201,568	Pending	4-Jul-16		
61/511,544	Expired	25-Jul-11		
61/556,045	Expired	4-Nov-11		
61/528,226	Expired	27-Aug-11		
61/506,120	Expired	10-Jul-11		
61/590,366	Expired	25-Jan-12		
61/618,830	Expired	1-Apr-12		
61/625,078	Expired	16-Apr-12		
61/625,085	Expired	17-Apr-12		
61/635,957	Expired	20-Apr-12		
61/654,900	Expired	3-Jun-12		
61/661,329	Expired	18-Jun-12		
61/661,361	Expired	19-Jun-12		
61/662,191	Expired	20-Jun-12		



61/678,989	Expired	2-Aug-12		
61/679,103	Expired	3-Aug-12		
61/680,544	Expired	7-Aug-12		
61/696,115	Expired	31-Aug-12		
61/700,869	Expired	13-Sep-12		
EP13702187.9	Pending	19-Aug-14		
EP13703256.1	Pending	19-Aug-14		
EP13703238.9	Lapsed	19-Aug-14		
EP13711213.2	Pending	29-Oct-14		
EP13718740.7	Pending	29-Oct-14		
EP15165499.3	Pending	25-Nov-15		