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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY D	ΑΤΑ				
		Name		Execution Date	
OPENTV CORP.				10/13/2014	
RECEIVING PARTY DA					
Name:	OPENTV	/, INC.			
Street Address:	275 SAC	RAMENTO STREET			
City:	SAN FR/	ANCISCO			
State/Country:	CALIFOR	RNIA			
Postal Code:	94111				
Property Type Application Number:	1	Number 5174100			
CORRESPONDENCE D Fax Number:					
<i>using a fax number, if</i> Email:	provided; re	the e-mail address first; if tha if that is unsuccessful, it will equest@slwip.com	be sent via US	Mail.	
<i>using a fax number, if</i> Email: Correspondent Name:	provided; re S	<i>if that is unsuccessful, it will</i> equest@slwip.com CHWEGMAN LUNDBERG & W	be sent via US	Mail.	
<i>using a fax number, if</i> Email:	p rovided; re S P	<i>if that is unsuccessful, it will</i> equest@slwip.com	<i>be sent via US</i> VOESSNER, P.A	Mail.	
using a fax number, if Email: Correspondent Name: Address Line 1: Address Line 4:	provided; re S P M	<i>if that is unsuccessful, it will</i> equest@slwip.com CHWEGMAN LUNDBERG & W 2.O. BOX 2938	<i>be sent via US</i> VOESSNER, P.A	Mail.	
using a fax number, if Email: Correspondent Name: Address Line 1: Address Line 4:	provided; re S P M	<i>if that is unsuccessful, it will</i> equest@slwip.com CHWEGMAN LUNDBERG & W 2.O. BOX 2938 MINNEAPOLIS, MINNESOTA 55	<i>be sent via US</i> VOESSNER, P.A	Mail.	
using a fax number, if Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET NU NAME OF SUBMITTER:	provided; re S P M	<i>if that is unsuccessful, it will</i> equest@slwip.com CHWEGMAN LUNDBERG & W O.O. BOX 2938 MINNEAPOLIS, MINNESOTA 58 2050.187US3	<i>be sent via US</i> VOESSNER, P.A	Mail.	
<i>using a fax number, if [</i> Email: Correspondent Name: Address Line 1:	provided; re S P M	if that is unsuccessful, it will equest@slwip.com GCHWEGMAN LUNDBERG & W 2.O. BOX 2938 MINNEAPOLIS, MINNESOTA 55 2050.187US3 CATINA JENSEN	<i>be sent via US</i> VOESSNER, P.A	Mail.	

RECORDATION FORM COVER SHEET PATENTS ONLY

Atty Ref/Docket No.: 2050.187US3

To the Director of the U.S. Patent and Trademark Office: Pleas 1. Name of conveying party(ies): OpenTV Corp. Additional name(s) of conveying party(ies) attached? []Yes [X]No 3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement[] Change of Name [] Other Execution Date: October 13, 2014	 e record the attached original documents or copy thereof. 2. Name and address of receiving party(ies): Name: OpenTV, Inc. Street Address: 275 Sacramento Street City: San Francisco State: CA Zip: 94111 Country: United States of America Additional name(s) & address(es) attached? []Yes [X]No 				
4. Application number(s) or patent number(s):If this document is being filed together with a new application, the execution date of the application is:					
A. Patent Application No.(s)	B. Patent No.(s)				
Serial No. 15/174,100	<i>D</i> , 10000110.(0)				
Additional numbers attached? []Yes [X]No					

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Domenico L. Ippolito

Address:

Schwegman Lundberg & Woessner, P.A. P.O. Box 2938 Minneapolis, Minnesota 55402--0938 6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41):\$ 0.00

[Enclosed [Authorized to be charged to deposit account 19-0743

8. Please charge any additional fees or credit any over payments to our Deposit Account No.: 19-0743

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Domenico L. Ippolito/Reg. No. 66,058	Down Joyahi	September 27, 2017
Name of Person Signing	Signature //	Date
	Total number of pages inch	uding cover sheet: 0

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks Mail Stop Assignment Recordation Services P.O. Box 1450 Alexandria, VA 22313-1450

> PATENT REEL: 043715 FRAME: 0977

Patent Assignment Agreement

THIS PATENT ASSIGNMENT AGREEMENT (this "Assignment") is entered into by and between Kudelski Interactive Cayman, Ltd. a company incorporated in the Cayman Islands ("Assignor"), and OpenTV, Inc., a company organized under the laws of the state of Delaware ("Assignee").

Recitals

WHEREAS, Assignor is the owner of US Patent 8,667,553 entitled "Automated Input in an Interactive Television System", as a result of internal restructuring transactions pursuant to which the aforementioned patent, which was previously held by OpenTV Corp., was ultimately assigned to Assignor;

WHEREAS, Assigner and Assignee are affiliates, both being wholly owned subsidiaries of the same ultimate parent corporation---Kudelski SA;

WHEREAS, Assignee is desirous of acquiring the right, title and interest in, to and under the aforementioned patent; and

WHEREAS, Assignce is desirous of registering and defending its acquired right, title and interest in, to and under the aforementioned patent.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto hereby agree as follows:

Terms of Assignment

1. Assignor hereby irrevocably assigns to Assignee the entire right, title, and interest, everywhere in the world, to:

- (a) US Patent 8,667,553 entitled "Automated Input in an Interactive Television System",
- (b) any patent applications and/or patents that may claim priority of the iterus in (a) (including but not limited to continuations, continuations in part, continuing prosecution applications, requests for continuing examinations, divisionals, substitutes, reissues, reexaminations, or extensions thereof, together with all priority rights and foreign counterpart applications under any existing or future international patent conventions, agreements, or treaties),
- (c) any patent that may be granted on any patent application in (a) or (b), and
- (d) any other rights in the invention described in any of (a), (b) or (c) including rights to apply in any or all countries of the world for patents, certificates of invention, utility models, industrial design protections, design patent protections, or other governmental grants or issuances of any type related to any of (a), (b), or (c) and the inventions, invention disclosures, and discoveries therein;

(all of the foregoing in (a)-(d), collectively, the "Patents");

(a) the right to sue third parties for infringement (including but not limited to past, present and future infringement, damages and injunctive relief) all causes of action (whether known or unknown or whether currently pending, filed, or otherwise) and all other enforcement rights and remedies (past, present, and future whether known or unknown) under, or on account of, any of the Patents;

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PATENT REEL: 043715 FRAME: 0978

- (f) any past, current, or future right to collect royalties or other payments under or on account of any of the Patents and/or any of the foregoing; and
- (g) rights of cooperation assigned or granted by any third party under or on account of any of the Patents and/or any of the foregoing

(all of the foregoing (a)-(g), the "Assigned Patent Rights").

2. This Assignment shall be binding upon, and inure to the benefit of, Assignor and Assignce, and their respective successors and assigns. This Assignment shall be governed by and construed in accordance with the laws of the State of California without giving effect to conflicts of law principles.

IN WITNESS WHEREOF, the parties hereto have executed and delivered this Assignment effective as of the date first set forth above.

Assignor: Kudelski Interactive Cayman, Ltd.

By: Name: MACK Beamhur

Title: 66monsa Dates

Assignee: OpenTV, Inc.

By: MARK Name: unu.r

Title: GEARMAN Course

Date:

Salia, Rumasuglia VP Treasurer

Page 2 of 2