

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
INTELLECTUAL VENTURES ASSETS 52 LLC	08/29/2017
<b>RECEIVING PARTY DATA</b>	
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<b>Postal Code:</b>	75093
<b>PROPERTY NUMBERS Total: 5</b>	
<b>Property Type</b>	<b>Number</b>
Patent Number:	6727914
Patent Number:	6445398
Patent Number:	6492997
Patent Number:	6452611
Patent Number:	7500202
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<b>DATE SIGNED:</b>	04/05/2018
<b>Total Attachments: 3</b>	

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### ASSIGNMENT OF PATENT RIGHTS

For good and valuable consideration, the receipt of which is hereby acknowledged, Intellectual Ventures Assets 52 LLC, a Delaware limited liability company, with an address at 251 Little Falls Drive, Wilmington, DE 19808 ("*Assignor*"), does hereby sell, assign, transfer, and convey unto Contemporary Display LLC, a Texas limited liability company with an office at 5068 W. Plano Parkway Suite 300, Plano, Texas 75093 ("*Assignee*"), all of Assignor's right, title, and interest in and to the following (collectively, the "*Assigned Patent Rights*"):

(b) the patents and patent applications listed in the table below (the "*Patents*");

Patent/ Application Number	Country	Issue Date/ Filing Date	Title of Patent and Inventors
6727914 (09/466406)	US	4/27/2004 (12/17/1999 )	Method and apparatus for recommending television programming using decision trees  Srinivas Gutta
CNZL00806336.2 (CN00806336.2)	CN	1/5/2005 (12/5/2000)	METHOD AND APPARATUS FOR RECOMMENDING TELEVISION PROGRAMMING USING DECISION TREES  Srinivas Gutta
KR10-0693770 (KR10-2001-7010466)	KR	3/6/2007 (12/5/2000)	METHOD AND APPARATUS FOR RECOMMENDING TELEVISION PROGRAMMING USING DECISION TREES  Srinivas Gutta
6445398 (09/103317)	US	9/3/2002 (6/24/1998)	Method and system for providing user interface for electronic program guide  George Gerba; Michael Nichols; Drew Takahashi; Margeigh Joy; Robert Lambert
6492997 (09/103315)	US	12/10/2002 (6/24/1998)	Method and system for providing selectable programming in a multi-screen mode  George Gerba; Michael Nichols; Robert Lambert
6452611 (09/103316)	US	9/17/2002 (6/24/1998)	Method and system for providing dynamically changing programming categories  George Gerba; Michael Nichols; Robert Lambert; Drew Takahashi

CA2319519 (CA2319519)	CA	4/30/2013 (2/4/1999)	METHOD AND SYSTEM FOR NAVIGATING THROUGH CONTENT IN AN ORGANIZED AND CATEGORIZED FASHION  George Gerba; Michael Nichols; Drew Takahashi; Margeigh Joy; Robert Lambert
CA2650301	CA	2/4/1999	METHOD AND SYSTEM FOR NAVIGATING THROUGH CONTENT IN AN ORGANIZED AND CATEGORIZED FASHION  George Gerba; Michael Nichols; Drew Takahashi; Margeigh Joy; Robert Lambert
DE69942828.9 (DE69942828.9)	DE	11/18/2010 (2/4/1999)	METHOD AND SYSTEM FOR NAVIGATING THROUGH CONTENT IN AN ORGANIZED AND CATEGORIZED FASHION  George Gerba; Michael Nichols; Drew Takahashi; Margeigh Joy; Robert Lambert
FR1058875 (FR99906755.6)	FR	10/6/2010 (2/4/1999)	METHOD AND SYSTEM FOR NAVIGATING THROUGH CONTENT IN AN ORGANIZED AND CATEGORIZED FASHION  George Gerba; Michael Nichols; Drew Takahashi; Margeigh Joy; Robert Lambert
GB1058875 (GB99906755.6)	GB	10/6/2010 (2/4/1999)	METHOD AND SYSTEM FOR NAVIGATING THROUGH CONTENT IN AN ORGANIZED AND CATEGORIZED FASHION  George Gerba; Michael Nichols; Drew Takahashi; Margeigh Joy; Robert Lambert
7500202 (10/260210)	US	3/3/2009 (9/30/2002)	Remote control for navigating through content in an organized and categorized fashion  George Gerba; Michael Nichols; Robert Lambert

(b) any future reissues, reexaminations, extensions, continuations, continuing prosecution applications, requests for continuing examinations, divisions, and registrations of any of the Patents;

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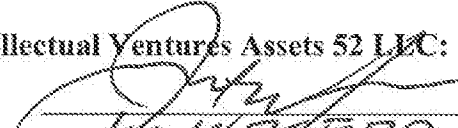
(d) causes of action and enforcement rights of any kind under, or on account of, any of the Patents and/or any of the items described in either of the foregoing categories (b) or (c), including, without limitation, all causes of action, enforcement rights and all other rights to seek and obtain any other remedies of any kind for past, current and future infringement.

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IN WITNESS WHEREOF this Assignment of Patent Rights is executed  
on AUGUST 29, 2017.

**Intellectual Ventures Assets 52 LLC:**

By:   
Name: JIM WILSON  
Title: AUTHORIZED PERSON