## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6138953

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	RELEASE OF SECURITY INTEREST

## **CONVEYING PARTY DATA**

Name	Execution Date
HPS INVESTMENT PARTNERS, LLC	06/01/2020

## **RECEIVING PARTY DATA**

Name:	ROVI SOLUTIONS CORPORATION	
Street Address:	2160 GOLD STREET	
City:	SAN JOSE	
State/Country:	CALIFORNIA	
Postal Code:	95002	
Name:	ROVI TECHNOLOGIES CORPORATION	
Street Address:	2160 GOLD STREET	
City:	SAN JOSE	
State/Country:	CALIFORNIA	
Postal Code:	95002	
Name:	ROVI GUIDES, INC.	
Street Address:	2160 GOLD STREET	
City:	SAN JOSE	
State/Country:	CALIFORNIA	
Postal Code:	95002	
Name:	TIVO SOLUTIONS, INC.	
Street Address:	2160 GOLD STREET	
City:	SAN JOSE	
State/Country:	CALIFORNIA	
Postal Code:	95002	
Name:	VEVEO, INC.	
Street Address:	2160 GOLD STREET	
City:	SAN JOSE	
State/Country:	CALIFORNIA	
Postal Code:	95002	

**PROPERTY NUMBERS Total: 2260** 

PATENT REEL: 053458 FRAME: 0749

506092233

Property Type	Number
Patent Number:	6542609
Patent Number:	6950520
Patent Number:	7356142
Patent Number:	6826352
Patent Number:	7065506
Patent Number:	6839312
Patent Number:	7050698
Patent Number:	6842522
Patent Number:	6928040
Patent Number:	6931547
Patent Number:	7236683
Patent Number:	7530116
Patent Number:	7340778
Patent Number:	7624282
Patent Number:	7865057
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Patent Number:	8059937
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Patent Number:	7877810
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Patent Number:	7788504
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Patent Number:	9326025
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Property Type	Number
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Patent Number:	10180983
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Patent Number:	10419824
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Patent Number:	8701141
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Patent Number: 7529	741
Patent Number: 8112	454
Patent Number: 9075	361
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Patent Number: 7925	986
Patent Number: 8799	304
Patent Number: 9250	305
Patent Number: 8078	384
Patent Number: 8073	360
Patent Number: 8417	717
Patent Number: 8635	240
Patent Number: 9223	373
Patent Number: 8380	726
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Patent Number: 7739	280
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Patent Number: 7657	526
Patent Number: 8429	155
Patent Number: 8949	231
Patent Number: 7774	341
Patent Number: 8156	113
Patent Number: 8438	160
Patent Number: 9092	503
Patent Number: 9507	332
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Patent Number: 7792	815
Patent Number: 8429	188
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Patent Number:	9690833
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Patent Number:	8577915
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Patent Number:	8577671
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Application Number:	15415689
Application Number:	15181394
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Application Number:	16265932
Application Number:	16419547
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Application Number:	15928011
Application Number:	15670949
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Application Number:	16518584
Application Number:	14694925
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Application Number:	15087214
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Application Number:	16233311
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Application Number:	16308268
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Application Number:	16377562
Application Number:	15143105
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Application Number:	16199972
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Application Number:	15977346
Application Number:	16100378
Application Number:	16023140
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Application Number:	16228123
Application Number:	16226886

Property Type	Number
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Application Number:	16366552

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Application Number:	16393355
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Application Number:	16407347
Application Number:	16396106
Application Number:	16510783
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Application Number:	16457231
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Application Number:	16523782
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Application Number:	16541788
Application Number:	16540521
Application Number:	62923276

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Application Number:	16553412
Application Number:	16557918
Application Number:	16557921
Application Number:	16557925
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Application Number:	16005199
Application Number:	16196647
Application Number:	16175678

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Application Number:	16510514
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Application Number:	16596594
Application Number:	16017478
Application Number:	16243931
Application Number:	16517273
Application Number:	16170872
Application Number:	16182072
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Application Number:	15977845
Application Number:	15845179
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Application Number:	15605412
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Application Number:	16011441
Application Number:	16054515
Application Number:	16017172
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Application Number:	16397408
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Application Number:	13570976
Application Number:	16432430
Application Number:	16189791
Application Number:	14473441
Application Number:	16248187
Application Number:	16248308
Application Number:	16174073
Application Number:	16276470

Property Type	Number
Application Number:	16036362
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Application Number:	15277288
Application Number:	16171093
Application Number:	16015492
Application Number:	15913609
Application Number:	16164280
Application Number:	16296928
Application Number:	16296948
Application Number:	16296953
Application Number:	16406813
Application Number:	16553337
Application Number:	16201679

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SIGNATURE:	/William J. Casey/
DATE SIGNED:	06/05/2020

## **Total Attachments: 47**

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### RELEASE OF SECURITY INTEREST IN PATENTS

Release of Security Interest in Patents, dated as of June 1, 2020, by HPS INVESTMENT PARTNERS, LLC, as collateral agent ("Releasor") to ROVI SOLUTIONS CORPORATION, ROVI TECHNOLOGIES CORPORATION, ROVI GUIDES, INC., TIVO SOLUTIONS INC., and VEVEO, INC. (each individually, a "Releasee" and, collectively, the "Releasees").

#### $\underline{\mathbf{W}}$ ITNESSETH:

WHEREAS, pursuant to that certain Patent Security Agreement, dated as of November 22, 2019 (the "Patent Security Agreement"), recorded in the United States Patent and Trademark Office ("USPTO") on November 22, 2019 under Reel/Frame 051143/0468, by Releasees to Releasor, each Releasee, as collateral security for the payment and performance in full of all the Secured Obligations, pledged and granted to Releasor for the benefit of the Secured Parties a lien on and security interest in and to all of its right, title and interest in, to and under (a) all the Patents of such Releasee listed on Schedule A attached hereto; (b) Patent Licenses, pursuant to which a third party is granting rights to any Releasee, included in the Material Intellectual Property Collateral listed on Schedule A attached hereto; and (c) all Proceeds of any and all of the foregoing (other than Excluded Property) (collectively, the "Patent Collateral"); and

WHEREAS, each Releasee has requested, and Releasor has agreed to execute, acknowledge and deliver, this Release of Security Interest in Patents to terminate the Patent Security Agreement and confirm the release, relinquishment and discharge of its continuing security interest in, to and under the Patent Collateral.

NOW, THEREFORE, in consideration of and in exchange for good and valuable consideration, the sufficiency and receipt of which are hereby acknowledged, Releasor hereby agrees as follows:

- SECTION 1. <u>Defined Terms</u>. Unless otherwise defined herein, capitalized terms used herein shall have the meaning given to them in the Patent Security Agreement.
- SECTION 2. <u>Release of Security Interest</u>. Releasor hereby, without any representation or warranty and without any recourse to Releasor, terminates the Patent Security Agreement and hereby terminates, releases, relinquishes and discharges its lien on and security interest in and to all of its right, title and interest in, to and under the Patent Collateral.
- SECTION 3. <u>Further Assurances</u>. The Releasor further agrees to execute and deliver to each Releasee any and all further documents and instruments, and do any and all further acts which each Releasee (or its agents or designees) may reasonably request, at such Releasee's sole cost and expense, in order to confirm this Release of Security Interest in Patents and such Releasee's right, title, and interest in or to the Patent Collateral.
- SECTION 4. Governing Law. THIS RELEASE OF SECURITY INTEREST IN PATENTS SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAW OF THE STATE OF NEW YORK.

[Remainder of page intentionally left blank.]

IN WITNESS WHEREOF, Releasor has caused this Release of Security Interest in Patents to be duly executed as of the date first written above.

DEL ASSISTEMENT PARTNERS, LLC

By:

Name: Vikas Keswani

Title: Managing Director

[Patent Release]

# SCHEDULE A

**PATENTS** 

To be attached.

4822-8073-6440.5

Part		METHOD TO SVITLESITE VIDEO TODAY DE OTEOTRONI SIONNI S	vi Salutians Corporation	71	01/10/2012	8,094,818	06/02/2005	_	02/1 5/20	Issued	Rovi Solutions Corporation
		METHOD FOR CONTROLLING COPY PROTECTION IN DIGITAL VIDEO NETWORKS			_	-			02/15/20		Kuyi Sululuris Curpuration
		METHOD AND APPARATUS FOR RECEIVING METADATA, EPG, OR IPG SIGNALS IN AN INTERGRATED CIRCUIT FOR CONTROL PURPOSES	vi Salutions Corporation	01/30/2022 Ro	07/01/2008	7,395,545	11/21/2002	no 20020172362		Issued 10/	
		CONTENT CONTROL VIA GUIDE DATA ANDIOR METADATA	vi Technologies Corporation	09/26/2030 Ro	02/12/2013	8,374,490	08/25/2011	010 20110206343	02/24/20	Issued 12/	Rovi Technologies Corporation
1   10   10   10   10   10   10   10		ME HOU AND APPAYALUS FOR PROBLING A CONTENT CONTROL SIGNAL IN A MEDIA PLAYER VIA COLOR BOYST PHASE MODIFICATIONS	vi Technologies Corporation	01/29/2031 Ro	11/08/2012	8,306,403	09/29/2011	010 20110235999	03/29/20	US Issued 12/749,225	Rovi Technologies Corporation
			vi Technologies Corporation	20	02/04/2014	8,644,680	03/24/2011	201	09/18/20	Issued 1	Rovi Technologies Corporation
		METHADI AND ARARA REGIRAN AND ARARA BENEVILLAR REGIRANCIA REGIRANC	vi Salutians Corporation	03/11/2031 Ro	10/02/2012	8,280,049	03/04/2010		01/28/20	Issued 1:	Rovi Salutians Corporation
1		METHOD AND APPARATUS FOR PROVIDING A CONTENT CONTROL SIGNAL VIA COLOR BURST PHASE MODIFICATIONS	vi Salutians Corporation	12/13/2030 Ro	08/21/2012	8,248,532	07/08/2010	20100171880	01/08/20	Issued 12	Rovi Solutions Corporation
			vi Technologies Corporation		02/12/2013	8.374.489	03/24/2011	_	09/23/20	Issued	Rovi Technologies Corporation
1		METHOD AND SYSTEM FOR TUNABLE DISTRIBUTION OF CONTENT	vi Technologies Corporation		08/07/2012	8,239,443	03/03/2011	_	09/01/20	Issued	Rovi Technologies Corporation
1   1   1   1   1   1   1   1   1   1		COMPUTER ENABLED METHOD AND APPARATUS TO INHIBIT CONTENT AND OTHER COPYING	wi Salutians Corporation	20	01/31/2012	8,108,336	05/07/2009	N	02/07/20	Issued 1	Rovi Salutians Carporation
Column   C		METHOD AND APPARATUS FOR SYNTHESIZING A COPY PROTECTION OR CONTENT CONTROL SIGNAL WITH IMPROVED PLAYABILITY OF A TV SET	N Solutions Corporation	TTV30V2UST KC	DBIDSISDIG	8,020,784	BOOZIGE		UZVBUKSU	ISSUBO	ROW Solutions Corporation
1   10   10   10   10   10   10   10		APPARATUS FOR AND A METHOD OF COPY-PROTECTING A CONTENT CARRYING RECORDING MEDIUM	wi Solutions Corporation	, ,	7.02/62/0	0 0 0	07/10/2009		011020	90000	Con Scientific Corporation
C   100   2017		METHOD AND APPARATUS FOR PROVIDING CONTENT CONTROL VIA DETECTION OF MODIFICATIONS TO A SIGNAL			0.0000000	9 190000	07/16/2000		01/46/20	00100	Dovi golistions Corporation
1   1   1   1   1   1   1   1   1   1		ENCODING AND DECODING OF EMBEDDED DATA STREAM IN ANALOG VIDEO USING COPY PROTECTION PULSES			04/23/2013	8.428.258	11/06/2008		04/30/20	ssued	
C   100   2011.11   2010.00   2010		APPARATUS FOR AND A MELHOU OF PROVIDING CONTENT DATA	vi Solutions Corporation	06/29/2031 Ro	08/28/2012	8,254,470	12/03/2009	2006	06/03/20	Issued 1	Rovi Salutions Corporation
1   10   10   10   10   10   10   10		PERSON INSTRUMENTAL CONTINUES IN A CONTINUE CONTINUE RECOGNITIVE R	tions	Z)	01/06/2015	8,930,718	10/09/2008	20	03/28/20	Issued 1	Rovi Solutions Corporation
Column				71	02/12/2013	8,375,461	09/18/2008	2.1	03/14/20	Issued 1	Rovi Solutions Corporation
Column   Declary   Column		APPARATUS FOR AND A METHOD OF COPY-PROTECTING A CONTENT CARRYING RECORDING MEDIUM		20	04/08/2014	8,695,103	09/11/2008	N	03/07/20	Issued 1	Rovi Salutians Carporation
1   1   1   1   1   1   1   1   1   1			vi Solutions Corporation	02/06/2027 Rc	01/25/2011	7.877,457	09/20/2007		03/17/20	Issued 11	Rovi Solutions Corporation
Column   C			vi Salutians Corporation	04/29/2031 Rc	08/28/2012	8,254,761	09/11/2008	200802	03/07/20	Issued 11	Ravi Salutians Carporation
Rest		R	wi Solutions Corporation	77	12/27/2011	8,086,722	06/21/2007		12/21/20	Issued	Rovi Solutions Corporation
Common   Control   Contr		METHOD FOR DISCOURAGING THE DISTRIBUTION OF ILLEGAL COPIES OF COMPUTER PROGRAMS OVER FILE SHARING NETWORKS	nyi Salutians Corporation	1	05/11/2010	7,716,138	07/24/2008	l N	01/10/20	Issued	Row Solutions Corporation
		A METHOD AND SYSTEM FOR ESTABLISHING TRUST IN A PEER-TO-PEER NETWORK	al Solutions Corporation	NC SOZIZOZO	0.02/00/0	7,000,040	1002/82/00/		ozii zian	90000	Novi Solutions Corporation
Column   C			d Solutions Corporation	000000000000000000000000000000000000000	0.000	7 600 042	O CONTROL OF	2 8	0000000	10000	Port Salutions Corporation
		TECHNIQUES FOR WATERMARKING AND DISTRIBUTING CONTENT		ļ.	0.440.000	0 10 10 10 10 10 10 10 10 10 10 10 10 10	07/06/00/07	-	04.00.00	1	Dovi Solutions Corporation
Column   C			ions	,	9000/20/80	7 570 641	03/01/2007	-	06/25/80	RS IPA	Roy Solutions Corporation
Process   Proc		A METHOD AND APPARATUS FOR STORING COPY PROTECTION INFORMATION SEPARATELY FROM PROTECTED CONTENT		20	01/15/2013	8,355,621	05/04/2006	N	10/25/20	Issued 1	Rovi Salutions Carporation
Part		(IMPROVEMENTS IN OK RELATING TO THE) COPY PROTECTION OF OPTICAL DISCS	vi Solutions Corporation	08/28/2026 Ro	08/24/2010	7.784.103	04/20/2006	N	10/19/20	Issued 1	Rovi Solutions Corporation
		AUDDOLIEUENTE NI OD DEL ATIVO TO TLEJ OOF I FROI COLONO OF I DOC JOSOO	vi Salutians Corporation	04/24/2027 Ro	10/27/2009	7,609,944	01/24/2008	20	07/05/20	Issued 1	Rovi Salutians Carporation
Column		ANDRONERS IN OR DELIATIVA TO THE CORVERONTE OTTOM OF ORTHOM		7	07/13/2010	7,755,980		007	04/04/20	Issued 1	Rovi Solutions Corporation
		THE COPY PROTECTION OF OPTION DISCS	utions	20	08/31/2010	7,788,504	12/08/2005	-	05/19/20	Issued	Rovi Salutions Corporation
Part		METHOD AND APPARATUS FOR MODIFYING A SUBSEQUENTLY GENERATED CONTROL COMMAND IN A CONTENT CONTROL SYSTEM	utions	77	09/07/2010	7,792,293	11/09/2006	20060251252	05/06/20	Issued 11	Row Solutions Corporation
Part		IDENTIFICATION OF INPUT FILES USING REFERENCE FILES ASSOCIATED WITH NODES OF A SPARSE BINARY TREE	vi Salutians Corporation	09/10/2027 Ro	05/11/2010	7,715,934	09/29/2005	20050216433	10/12/20	US Issued 10/963,306	Ravi Salutians Carporation
1   1   1   1   1   1   1   1   1   1		COPY PROTECTION OF OPTICAL DISCS USING REDUNDANT CONTROL DATA (As Amended)	vi Solutions Corporation	05/25/2027 Rc	04/27/2010	7,706,661	11/24/2005	20050	05/19/20	Issued 1	Rovi Solutions Corporation
Part		SYSTEM, METHOD AND CLIENT USER INTERFACE FOR A COPY PROTECTION SERVICE	utions	20	01/25/2011	7,877,810	09/08/2005	- 21	02/28/20	Issued 1	Rovi Solutions Corporation
14	R	(IMPROVEMENTS IN OR RELATING TO THE) DEFEAT OF THE COPY PROTECTION OF OPTICAL DISCS	vi Solutions Corporation	08/30/2026 Rc	05/18/2010	7.721,338	03/08/2007	N.	07/12/20	Issued	Rovi Solutions Corporation
10   10   10   10   10   10   10   10	Ш	(IMPROVEMENTS IN OR) RELATING TO THE COPY PROTECTION OF OPTICAL DISCS	vi Salutians Corporation	02/04/2025 Rc	11/15/2011	8,059,937	08/25/2005	20	09/1 0/20	Issued 1	Rovi Solutions Corporation
1.0   1.0	E	APPARATUS FOR AND A METHOD OF AUTHENTICATING RECORDING MEDIA		77	04/20/2010	7,701,825	12/21/2006	N1	06/17/20	Issued 1	Rovi Solutions Corporation
18   18   18   18   18   18   18   18		METHOD AND APPARATUS FOR CONVEYING RIGHTS ACROSS AN ANALOG VIDEO INTERFACE	tions	70	01/04/2011	7,865,057	04/21/2005	- 0.1	01/07/20	Issued	Ravi Salutians Carporation
No.   No.	: 0		wi Solutions Corporation	12/05/2026 Rc	11/24/2009	7,624,282	04/13/2006	D.)	10/12/20	Issued 1	Rovi Solutions Corporation
1.00   1.00	).5		wi Salutians Corporation	07/24/2022 Rc	03/04/2008	7,340,778	01/29/2004		07/24/20	US Issued 10/202,132	Ravi Salutians Carporation
US	F 3		vi Solutions Corporation	77	05/05/2008	7,530,116	12/11/2003	N	06/06/20	Issued	Rovi Solutions Corporation
US			nvi Salutians Corporation	L	06/26/2007	7,236,683	05/15/2003	22	11/15/20	Issued	Ravi Salutians Carporation
US	T	METHOD AND APPARATUS FOR IDENTIFYING A VERTICAL BLANKING INTERVAL IN A TELEVISION SIGNAL	vi Solutions Corporation	01/03/2021 Rc	08/16/2005	6,931,547	07/04/2002	20	01/03/20	Issued	Rovi Solutions Corporation
US   Sound   OH460,584   OF   OH460,584   OF   OH460,584   OH460	E		nyi Salutians Corporation	02/21/2021 Rc	08/09/2005	6,928,040	01/24/2002	20020009033	02/21/20	Issued	Row Solutions Corporation
US   Sound   OHARD, SM   OF   ACCOUNTY   OHARD, SM   OF   OHARD, SM   OHARD,	N	SECURE DIGITAL MIDEO DISK AND PLAYER	vi Solutions Corporation	06/01/2020 Rc	01/11/2005	6,842,622		000	06/01/20	Issued	S
US   Sound   OHROLIAN   OFFICATION   OHROLIAN   OHROL	T	METHOD AND APPARATUS FOR SYNTHESIZING OR MODIFYING A COPY PROTECTION SIGNAL USING A LOWERED SIGNAL LEVEL PORTION	NI Solutions Corporation	, ,	annzirziran	7,000,000		100	02/01/90	Ssuba	Row Solutions Corporation
Companion   Us   Inches   Use   Us	\ \ \		W Solutions Corporation	, ,	a name and a	0,038,312	10/31/2002	000	ozuguwi i	Ssubu	Row Solutions Corporation
Companion   Us   Issued   Gal430.384   C1722020   C222020   C222	1 5	METHOD AND APPARATUS TO INHIBIT ILLIGIT COPYING FROM A RECORD CARRIER TO A COMPUTER-READABLE DATA STORAGE DEVICE	NI Solutions Corporation	TIVIS/2018	annzinzian	7,000,000		199	THE PARTY	Issued	RBW Solutions Corporation
Companion   US   Issued   Gesta, 2544   Ge			tions	, 2	11/30/2004	6,826,352		100	03/28/20	Issued 08	Row Solutions Corporation
COMPARISON   US   SENSON   US   US   US   US   US   US   US   U	0	SECURE COMPACT DISK AND PLAYER	NVI Solutions Corporation	05/10/2020 RC	04/08/2008	7,356,142		Jud	טבית ריפט	Issued	
ESURE UMMSCJEM UTT M-COUL METHOD AND APPARATUS FOR S	8		vi Solutions Corporation	01/25/2020 Rc	08/27/2005	6,950,520			01/25/20	Issued	
	4	70	W Solutions Corporation	NC NC	CODZIDIA	0,342,000		380	02041210	Danse	Novi Sulutions Corporation

	PORTION OE A DISDLAY WITH A USER INTERFACE	Rovi Guides, Inc.	12/11/2026	12/11/2012	D672,363		05/31/2011	US Issued 29/393,186	Rovi Guides, Inc.
		Ravi Guides, Inc.	03/19/2027	03/19/2013	D678,311		05/31/2011	US Issued 29/393,183	Rovi Guides, Inc.
		Rovi Guides, Inc.				01/25/2018	10/02/2017 20180024711	US Pending 15/722,276	Rovi Guides, Inc.
	SYSTEM AND METHOD FOR PYRAMDAL NAVIGATION	Rovi Guides, Inc.	05/31/2031	10/03/2017	9,778,818	12/06/2012	05/31/2011 20120311502	US Issued 13/149,644	Rovi Guides, Inc.
	SYSTEM AND METHOD FOR CAROUSEL CONTEXT SWITCHING	Rovi Guides, Inc.	12/08/2031	01/18/2016	9,239,890	12/06/2012		Issued	Rovi Guides, Inc.
	EPISODE PICKER	Rovi Guides, Inc.	10/06/2031	05/06/2014	8,719,866	12/06/2012	06/31/2011 20120311638	Issued	Roy Guides, Inc.
	SYSTEM AND METHOD FOR MATCHING CONTENT BETWEEN SOURCES	Royl Guides, Inc.	04/21/2031	12/18/2012	8,335,801	06/21/2012	<u> </u>	Issued	Royl Guides, Inc.
	FORECASTING AN AVAILABILITY OF A MEDIA CONTENT ITEM	Rovi Guides, Inc.	04/25/2031	07/09/2013	8,484,244	06/21/2012	12/17/2010 20120158708	Issued	Roy Guides, Inc.
	SYSTEMS AND METHODS FOR ELECTRONIC OFF-LINE CATALOG	Rovi Technologies Corporation	02/26/2024	10/14/2008	7,437,318	04/10/2003	-	Issued	Rovi Technologies Corporation
	METHOD OF ACCESSING DATA ON A COPY PROTECTED DATA CARRYING DISC(As Amended)	Rovi Solutions Corporation	03/06/2023	08/19/2008	7,414,930	10/18/2007	N	Issued	Rovi Solutions Corporation
	METHOD AND APPARATUS FOR PROTECTION OF DATA CARRYING DISCS (As Amended)	Novi Solutions Corporation	000000000000000000000000000000000000000	0.0000000000000000000000000000000000000	7,608,004	0.000		100000	Novi Galatian Scalparation
	METHOD FOR COMPUTER NETWORK OPERATION PROVIDING BASIS FOR USAGE FEES	Royi Solutions Corporation	020000000000000000000000000000000000000	07/02/007	7,301,013	403212002	) N	5000	Boy Solutions Corporation
	TEXT-BASED FUZZY SEARCH		08/05/2020	08/25/2009	7.581.013	2002/77/2002	9 :	Isched	Roy Solutions Corporation
	METHOD AND APPARATUS FOR IDENTIFYING VIDEO PROGRAM MATERIAL OR CONTENT VIA DIFFERENTIAL SIGNALS	Royi Technologies Comoration	05/23/2031	08/27/2013	8 521 759	11/29/2012		SCI PA	Roy Technologies Compretion
	METHOD, MEDIUM, AND SYSTEM FOR PROVIDING A RECOMMENDATION OF A MEDIA ITEM	Pavi Technologies Corporation	r novacion	06/04/0014	8 761 545	05/04/0010	-	Political and	Roy Technologies Compretion
	METHOD AND APPARATUS FOR IDENTIFYING VIDEO PROGRAM MATERIAL OR CONTENT VIA FREQUENCY TRANSLATION OR MODULATION SCHEMES	Rayi Technologies Corporation	10/01/2020	08/07/2012	880 050 88	44/40/2014	_	118 Issued 12/776 024	Roy Technologies Corporation
		Royi Technologies Comoration	04/07/20134	09/03/2013	8 507 368	01/05/2012	٠	Name of the second	Roy Technologies Compretion
	RECOMMENDING A MEDIA ITEM BY USING AUDIO CONTENT FROM A SEED MEDIA ITEM		06/01/2031	05/13/2014	8,725,766	08/29/2011	03/25/2010 20110238688	Issued 1	Rovi Technologies Corporation
		Rovi Technologies Corporation	10/15/2030	08/07/2012	8,239,412	11/10/2011	_	Issued	Rovi Technologies Corporation
	HOLENG AUDIO RECOGNITION	Rovi Technologies Corporation	03/02/2031	04/23/2013	8,428,955	04/14/2011	_	Issued 1	Rovi Technologies Corporation
	BOLLING ALERO BECOGNITION	Rovi Technologies Corporation	11/02/2032	11/11/2014	8,886,531	07/14/2011	01/13/2010 20110173208	US Issued 12/686,779	Rovi Technologies Corporation
	MATCHING A FINGERPRINT	Rovi Technologies Corporation	06/09/2030	11/27/2012	8,321,394	05/12/2011	11/10/2008 20110113037	US Issued 12/615,586	Rovi Technologies Corporation
		Rovi Technologies Corporation	08/10/2031	06/10/2014	8.751,494	06/17/2010	12/15/2008 20100153393	US Issued 12/316,706	Rovi Technologies Corporation
		Ravi Technologies Corporation	01/28/2029	09/03/2013	8,527,490	09/20/2012	05/23/2012 20120239696	US Issued 13/479,207	Ravi Technologies Corporation
	STRUCTURING AND SEARCHING DATA IN A HIERARCHICAL CONFIDENCE-BASED CONFIGURATION	Rovi Technologies Corporation	10/19/2030	06/26/2012	8,209,313	07/29/2010	01/28/2009 20100191739	US Issued 12/321,997	Rovi Technologies Corporation
	MANAGING METADATA FOR OCCURENCES OF A RECORDING	Ravi Technologies Corporation	10/16/2029	12/31/2013	8,620,967	12/16/2010	_	Issued	Rovi Technologies Corporation
	GENERATING A REPRESENTATIVE SUB-SIGNATURE OF A CLUSTER OF SIGNATURES BY USING WEIGHTED SAMPLING	Rovi Technologies Corporation	04/16/2030	01/22/2013	8,309,315	12/16/2010	06/11/2009 20100318493	US Issued 12/456,194	Row Technologies Corporation
	METHODS AND APPARATUS FOR AUDIO RECOGNITION	Covi lecimologies Corporation	01/20/2020	0.002000	0,332,238	I WI SYZOUS	_	South	Con legingles Corporation
	METHODS AND APPARATUS FOR AUDIO RECOGNITION	Novi Technologies Corporation	CHIZITZUZI	0.2202.000	7,007,000	o i do zood		50000	Novi legiliningies corporation
	METHODS AND APPARATUS FOR IDENTIFYING MEDIA OSLECTS	Roy Technologies Corporation	04.070.00	171172000	7,401,070	OTING ISONG	1 0	Subd	
	DIGITAL AUDIO TRACK SET RECOGNITION SYSTEM	Novi Technologies Colpulation	1210012024	0.7620	1,011,1100	00/28/2000		Isoutou	Novi Technologies Corporation
	DIGITAL AUDIO TRACK SET RECOGNITION SYSTEM	Port Technologies Corporation	1000000	04.05.0044	7,000,000	050000000000000000000000000000000000000	2 6	30000	ogies cui pu
	METHOD AND SYSTEM FOR PRESENTING MUSIC TO CONSUMERS	1	0004 2002	0.000	7 350 000	02/02/2008		1	Day Taribanianian Corporation
		Rovi Technologies Corporation	01/30/2025	02/15/2011	7,890,374		+	Issued	Rovi Technologies Corporation
	METHOD AND SYSTEM FOR ANALYZING DIGITAL AUDIO FILES	Ravi Technologies Corporation	10/12/2021	12/14/2010	7,853,344	12/06/2007	08/16/2007   20070282935	Issued 1:	Rovi Technologies Corporation
R			06/14/2023	10/02/2007	7,277,766		10/24/2000	Issued	Row Technologies Corporation
E		Rovi Technologies Corporation	06/14/2023	03/25/2003	6,539,395		03/22/2000	US Issued 09/533,045	Rovi Technologies Corporation
E	METADO AND OVOTEM END TI MADI E MATERIO ITIAM DE PONTENTI	Rovi Technologies Corporation	09/01/2029	04/22/2014	8,706,876	11/22/2012	05/22/2012 20120297032	US Issued 13/477,234	Rovi Technologies Corporation
		Rovi Solutions Corporation	02/07/2028	11/13/2012	8,311,978	01/05/2012	02/03/2011 20120005757	US Issued 13/020,761	Rovi Salutians Carporation
: (	COMPILED IN DEMENTED METHOD AND SYSTEM FOR EMBREDDING AND ALTHENTICATING AND ILLEGAMENT MINDER METHOD AND SYSTEM FOR THE METHOD SYSTEM FOR THE METHO	Rovi Solutions Corporation	03/31/2026	11/18/2014	8,892,894	10/17/2013	06/07/2013 20130275318	US Issued 13/912,866	Rovi Solutions Corporation
) ŧ	COMPLIER IN MINITAM IN MOTENTAM OF THE STATE	Rovi Solutions Corporation	03/31/2026	07/09/2013	8,484,476	05/27/2010	01/29/2010 20100131770	US Issued 12/696,725	Rovi Salutians Carporation
		Rovi Solutions Corporation	06/14/2026	04/02/2013	8,412,775	05/12/2011	01/19/2011 20110113103	US Issued 13/009,700	Rovi Solutions Corporation
	APPARATUS AND METHOD FOR MONITORING AND CONTROLLING ACCESS TO DATA ON A COMPUTER READABLE MEDIUM(Application for Active Software Driver for Demonstration Use)	Rovi Solutions Corporation	04/12/2028	05/11/2010	7,716,744	04/05/2007	08/09/2006 20070079095	US Issued 11/501,627	Rovi Solutions Corporation
\ 58	TECHNIQUES FOR MEASURING PEER-TO-PEER (P2P) NETWORKS	Rovi Solutions Corporation	12/21/2025	03/11/2014	8,671,188	12/22/2011	08/29/2011 20110314150	US Issued 13/219,855	Row Solutions Corporation
ΓE	TECHNIQUES FOR WATERMARKING AND DISTRIBUTING CONTENT	Rovi Solutions Corporation	01/03/2026	07/19/2011	7,983,260	09/10/2009	05/20/2009 20090228592	US Issued 12/469,263	Rovi Salutians Carporation
F	A METHOD AND APPARATUS FOR STORING COPY PROTECTION INFORMATION SEPARATELY FROM PROTECTED CONTENT	Rovi Solutions Corporation	10/19/2024	01/28/2013	8,365,307	11/27/2008	08/06/2008 20080292269	US Issued 12/187,191	Rovi Solutions Corporation
IT R/	A SYSTEM AND METHOD FOR ALLOWING COPYING OR DISTRIBUTION OF A COPY PROTECTED SIGNAL	Rovi Solutions Corporation	10/19/2024	09/04/2012	8,259,939	05/05/2011		Issued	Rovi Salutians Carporation
A I	A SYSTEM AND METHOD FOR ALLOWING COPYING OR DISTRIBUTION OF A COPY PROTECTED SIGNAL	Ravi Salutions Corporation	08/02/2027	03/15/2011	7,907,727	04/20/2006	, N	Issued 1	Rovi Salutions Corporation
VII	METHOD AND APPARATUS FOR MODIFYING A SUBSEQUENTLY GENERATED CONTROL COMMAND IN A CONTENT CONTROL SYSTEM	Uń.	05/06/2025	02/12/2013	8,374,347	11/18/2010	20100	Issued 1:	Rovi Salutians Carporation
E:	CONTROLLING THE DOWNLOADING AND RECORDING OF DIGITAL DATA	Rovi Solutions Corporation	06/06/2022	04/24/2012	8,166,566	07/30/2009		Issued	Roy Solutions Corporation
C	CONTROLLING THE DOWNLOADING AND RECORDING OF DIGITAL DATA	Royl Solutions Corporation	06/06/2022	10/02/2007	7,278,169	11/23/2006		Issued	Roy Solutions Corporation
8	METHOD TO PROVIDE THE GENERATION OF AN INCORRECT OR UNRELIABLE VERTICAL/FRAME RATE SIGNAL (88 8/monds/s)	Rovi Solutions Corporation	01/03/2021	08/28/2006	7,100,209	10/27/2005	20050	Issued	Roy Solutions Corporation
1 {	DIGITAL VIDEO DISK AND PLAYER AND ASSOCIATED METHODS WITH PROPRIETARY FORMAT	Ravi Salutions Corporation	09/29/2020	12/18/2007	7,310,764	05/19/2005	2005	Issued 11	Rovi Salutions Corporation
5	APPARATUS FOR PROVIDING A MODIFIED ANALOG VIDEO SIGNAL FROM AN INTERNET TRANSMISSION OF A VIDEO SIGNAL	Rovi Solutions Corporation	04/06/2022	06/08/2010	7,734,142	03/16/2006		Issued	Rovi Salutions Corporation

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	SYSTEMS AND METHODS FOR VIDEO-RICH MANGATION	Rovi Guides, Inc.	01/27/2028	06/10/2014	8,752,084	10/19/2006	20060236342	03/30/2006	11/395,380	US Iss	Rovi Guides, Inc.
		Rovi Guides, Inc.	02/07/2031	05/20/2014	8,731,379			11/04/2005	ued 11/267,469	US Iss	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR RECORDING PROGRAMS USING A NETWORK RECORDING DEVICE AS SUPPLEMENTAL STORAGE	Rovi Guides, Inc.				08/29/2019	20190268582	05/08/2019	nding 16/406,455	US Pe	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR RECORDING PROGRAMS UNING A NETWORK RECORDING DEVICE AS SUPPLEMENTAL STORAGE	Rovi Guides, Inc.	01/06/2031	11/12/2013	8,582,946	05/10/2007	20070104456	11/04/2005	Issued 11/267,200	US	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR RECORDING AND PLAYING BACK PROGRAMS HAVING DESIRABLE RECORDING ATTRIBUTES	Rovi Guides, Inc.	08/30/2025	10/16/2018	10,104,421	11/02/2017	20170318332	07/17/2017	ued 15/651,400	US	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR RECORDING AND PLAYING BACK PROGRAMS HAVING DESIRABLE RECORDING ATTRIBUTES		10/16/2025	08/22/2017	9,743,131	04/21/2016	20160112755	10/26/2015	ssued 14/923,352	<b>⊢</b> _	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR RECORDING AND PLAYING BACK PROGRAMS HAVING DESIRABLE RECORDING ATTRIBUTES	Rovi Guides, Inc.	11/27/2025	10/27/2015	9,171,580	04/03/2014	20140083220	12/04/2013	Issued 14/096,221	_	Royl Guides, Inc.
	SYSTEMS AND METHODS FOR RECORDING AND PLAYING BACK PROGRAMS HAVING DESIRABLE RECORDING ATTRIBUTES	Rovi Guides, Inc.	05/24/2028	01/07/2014	8,625,971	06/03/2010	20100135639	11/23/2009	Issued 12/623,539		Rovi Guides, Inc.
	SYSTEM AND METHODS FOR RECORDING AND PLAYING BACK PROGRAMS HAVING DESIRABLE RECORDING ATTRIBUTES	Royi Guides, Inc.	820701/40	טרטבעברערט	7,040,902			9002/02/80	_	_	Royl Guides, Inc.
	SYSTEM AND METHOD FOR PROVIDING A LIST OF VIDEO-ON-DEMAND PROGRAMS	Royi Guides, Inc.				11/15/2018	20180332353	05/11/2018	nding 15/9//,200	5 6	Royl Guides, Inc.
	SYSTEM AND METHOD FOR PROVIDING A LIST OF VIDEO-ON-DEMAND PROGRAMS	Rovi Guides, Inc.	08/10/2025	05/15/2018	9,973,817			06/30/2010	ued 12/827,186	US	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR RECORDING PROGRAMS OF LESSER INTEREST WHEN CONVENIENT	Rovi Guides, Inc.	09/01/2027	09/11/2012	8,265,460	10/15/2009	20090257733	06/25/2009	ssued 12/491,921	_	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR RECORDING PROGRAMS OF LESSER INTEREST WHEN CONVENIENT	Rovi Guides, Inc.	09/05/2027	08/04/2009	7,570,870	03/29/2007	20070071399	d8/27/2005	ssued 11/237,839	<u> </u>	Royl Guides, Inc.
	SYSTEM AND METHOD FOR QUALITY MARKING OF A RECORDING	Royi Guides, Inc.	BZ0Z/12/G0	U1/24/2U1/2	0,229,203	1000Z/0000	20000222320	GU07/1.0/#0	11/09/,500	5	Roy Guides, Inc.
	SYSTEMS AND METHODS FOR MANAGING LOCAL STORAGE OF ON-DEMAND CONTENT	Royi Guides, Inc.						RL02/GD/SD	nding 16/531,900	5 5	Royl Guides, Inc.
	SYSTEMS AND METHODS FOR MANAGING LOCAL STORAGE OF ON-DEMAND CONTENT	Rovi Guides, Inc.	09/30/2025	81027/1/80	10,419,810	9102/2016	20160066027	d LOZ/LO/BD	14/842,/56	5 5	Royl Guides, Inc.
	SYSTEMS AND METHODS FOR MANAGING LOCAL STORAGE OF ONDEMAND CONTENT	Don't Cuiden Inc	00 00 00 00 00 00 00 00 00 00 00 00 00	00444	10 440 040	02/02/00/0	201000000000000000000000000000000000000	000000000000000000000000000000000000000	14/640 756	5 6	Boyl Outdoor Inc.
	ADAPTIVE INTERVALS IN NAVIGATING CONTENT AND/OR MEDIA	Roy Guides Inc	202000000	00/20/2014	0 1/3 736	000000000000000000000000000000000000000	2010023882	07/20/2000	12/506 086	ō 6	Roy Guides Inc
	ADAPTIVE INTERVALS IN NAVIGATING CONTENT AND/OR MEDIA		06/06/00/07	08/25/2010	10 224 510	200000000000000000000000000000000000000	20160350604	05/4 0/2046	15/1/15/15/15/15/15/15/15/15/15/15/15/15		
	ADAPTIVE INTERVALS IN NAVIGATING CONTENT AND/OR MEDIA	Pavi Technologies Corporation	01/22/2007	ALDC/ICIACIAN	0 273604	05/14/50045	20150125074	A POCCOUNT			Park Technologies Corporation
	MANAGING LICENSES OF MEDIA FILES ON PLAYBACK DEVICES	Technologies	03/26/2033	02/10/2015	8 954 857	08/23/2007	20070198111	01/23/2007	-		logies Corpo
	SYSTEM AND METHODS FOR BUFFERING OF REAL-TIME DATA STREAMS	Rovi Technologies Corporation	05/19/2031	01/14/2014	8,631,508	12/22/2011	20110314554	06/22/2010	ssued 12/820,812	_	Rovi Technologies Corporation
	SYSTEM AND METHOD FOR USING TELEXISION INFORMATION CODES	Rovi Solutions Corporation	05/04/2029	07/30/2013	8,499,059	11/04/2010	20100281142	05/04/2009	ued 12/387,511	US Iss	Rovi Salutions Corporation
	WE INDUMNUATION FOR INVESTIGATION AND LEXT IN A LEXT-ENHANCED LECEVISION PROGRAM	Rovi Guides, Inc.	03/30/2029	08/12/2014	8,806,533			10/07/2005	ued 11/246,778	US ISS	Rovi Guides, Inc.
	מבאיצאר בתיאונים ריטי מוטיבי אום שמיצירוועים.	Rovi Guides, Inc.	10/11/2021	08/18/2015	9,113,122	11/30/2006	20060271980	08/13/2002	Issued 11/405,092	US	Rovi Guides, Inc.
		Rovi Guides, Inc.	11/30/2019	11/07/2017	9,811,538	10/06/2016	20160292184	03/02/2016	rued 15/058,878	US	Rovi Guides, Inc.
		Rovi Guides, Inc.	11/30/2019	04/12/2016	9,311,405	04/18/2013	20130097145	09/12/2012	Issued 13/612,288	US	Rovi Guides, Inc.
	SEARCH ENGINE FOR VIDEO AND GRAPHICS	Rovi Guides, Inc.	11/30/2019	07/26/2011	7,987,175	12/09/2010	20100312795	06/21/2010	12/819,377	US Iss	Rovi Guides, Inc.
	SEARCH ENGINE FOR VIDEO AND GRAPHICS	Rovi Guides, Inc.	11/30/2019	07/26/2011	7,987,174	12/09/2010	20100312761	06/21/2010	ued 12/819,365	US	Rovi Guides, Inc.
		Rovi Guides, Inc.	11/30/2019	12/25/2012	8,341,137	12/09/2010	20100313131	06/21/2010	rued 12/819,359	US Iss	Rovi Guides, Inc.
		Rovi Guides, Inc.	11/30/2019	12/25/2012	8,341,136	12/09/2010	20100313130	06/21/2010	rued 12/819,347	US Iss	Rovi Guides, Inc.
	SEARCH ENGNE FOR VIDEO AND GRAPHICS	Rovi Guides, Inc.	05/04/2020	10/26/2010	7,822,760	07/24/2008	20080177706	08/20/2007	ued 11/894,684	US Iss	Rovi Guides, Inc.
		Rovi Guides, Inc.	04/19/2020	08/03/2010	7,769,775	06/05/2008	20080133485	08/20/2007	Issued 11/894,699	US Iss	Rovi Guides, Inc.
	SEARCH ENGINE FOR VIDEO AND GRAPHICS	Rovi Guides, Inc.	11/30/2019	02/22/2005	6,859,799			11/30/1999	ued 09/452,287	US Iss	Rovi Guides, Inc.
	APPARATUS AND METHOD FOR PARENTAL CONTROL USING VIGHIP BLUS+ AND MASTER PASSWORD	Rovi Guides, Inc.	03/19/2020	08/23/2011	8,006,260	07/18/2002	20020085673	10/16/2001	10/033,532	US Iss	Rovi Guides, Inc.
RE	PROTECTION OF DELIVERED MEDIA	Rovi Technologies Corporation	12/24/2031	12/17/2013	8,612,623	03/15/2012	20120066289	09/13/2010	ued 12/880,973	US Iss	Ravi Technologies Corporation
EE	PROTECTION OF INTERNET DELIVERED MEDIA	Rovi Technologies Corporation	07/11/2032	07/07/2015	9,078,049	03/15/2012	20120066768	09/13/2010	ssued 12/880,956	US Iss	Rovi Technologies Corporation
EL	SYSTEMS AND METHODS FOR CONVERTING INTERACTIVE MULTIMEDIA CONTENT AUTHORED FOR DISTRIBUTION VIA A PHYSICAL MEDIUM FOR ELECTRONIC DISTRIBUTION	Ravi Technologies Corporation	07/13/2031	04/11/2017	9,620,172	07/30/2015	20150213835	01/29/2015	ued 14/609,337	US Iss	Rovi Technologies Corporation
	SYSTEMS AND METHODS FOR CONVERTING INTERACTIVE MULTIMEDIA CONTENT AUTHORED FOR DISTRIBUTION VIA A PHYSICAL MEDIUM FOR ELECTRONIC DISTRIBUTION	Rovi Technologies Corporation	09/17/2031	02/24/2015	8,965,180	01/19/2012	20120014674	07/13/2011	ssued  13/182,376	US Iss	Rovi Technologies Corporation
0		Rovi Salutians Corporation	04/27/2030	12/11/2012	8,332,884	08/20/2009	20090210894	02/20/2008	Issued 12/070,592		Rovi Solutions Corporation
1 53	METHOD AND APPARATUS FOR REDUCING AND RESTORING THE EFFECTIVENESS OF A COMMERCIAL SUPSYSTEM	Rovi Solutions Corporation				01/31/2019	20190037281	10/02/2018	nding 16/149,461	US Pe	Rovi Solutions Corporation
P/	METHOD AND APPARATUS FOR REDUCING AND RESTORING THE EFFECTIVENESS OF A COMMERCIAL SUP SYSTEM	Rovi Salutians Corporation	09/28/2023	11/13/2018	10,129,605	06/22/2017	20170180819	12/08/2016	ued 15/372,956	US Iss	Rovi Solutions Corporation
٦ 58	WETHOD AND APPARATUS FOR REDUCING AND RESTORING THE EFFECTIVENESS OF A COMMERCIAL SKIP SYSTEM	Rovi Solutions Corporation	07/03/2023	01/17/2017	9,549,226	09/10/2015	20150256901	05/22/2015	ued 14/719,994	US	Rovi Salutions Corporation
ΓE 3 Ι	METHOD AND APPARATUS FOR REDUCING AND RESTORING THE EFFECTIVENESS OF A COMMERCIAL SWP SYSTEM	Rovi Solutions Corporation	08/12/2023	06/16/2015	9,060,182	03/07/2013	20130058629	08/13/2012	ued 13/584,569	US Iss	Rovi Solutions Corporation
EN FI	WETHOD AND APPARATUS FOR REDUCING AND RESTORING THE EFFECTIVENESS OF A COMMERCIAL SKIP SYSTEM	Rovi Solutions Corporation	01/17/2027	08/28/2012	8,254,756	02/21/2008	20080044154	10/17/2007	Issued 11/975,067	US	Rovi Salutions Corporation
IT R#	METHOD AND APPARATUS FOR REDUCING AND RESTORING THE EFFECTIVENESS OF A COMMERCIAL SUPSYSTEM	Rovi Solutions Corporation	07/19/2026	11/20/2007	7,298,962	11/18/2004	20040228605	05/12/2003	Bd.	US Issu	Rovi Salutians Carporation
A F		Rayl Guides, Inc.	11/03/2029	11/03/2015	D742,385			08/18/2012	ued 28/432,661	US Iss	Rovi Guides, Inc.
ΛI	DISPLAY SCREENWITH GRAPHICAL USER INTERFACE FOR LIVE MEDIA CONTENT	Rovi Guides, Inc.	10/13/2029	10/13/2015	D740,839			09/18/2012	ued 29/432,659	US Iss	Rovi Guides, Inc.
Ξ:	TOUGHENBLED REMOTE CONTROL	Rovi Guides, Inc.	01/19/2033	09/29/2015	9,146,616	07/11/2013	20130176243	11/08/2012	Issued 13/672,426	US Iss	Rovi Guides, Inc.
0	SYSTEM AND METHOD FOR FRAMEWORK CULPPING	Ravi Guides, Inc.	07/28/2032	09/23/2014	8,842,131	07/11/2013	20130176331	01/10/2012	ued 13/347,667	US Iss	Rovi Guides, Inc.
8	PORTION OF A DISPLAY WITH A USER INTERFACE	Rovi Guides, Inc.	12/11/2026	12/11/2012	D672,364			05/31/2011	ued 29/393,192	US	Rovi Guides, Inc.
16	PORTION OF A DISPLAY WITH A GRAPHICAL USER INTERFACE	Rovi Guides, Inc.	09/03/2027	09/03/2013	D689,064			05/31/2011	Issued 29/393,190	US Iss	Rovi Guides, Inc.
;	PORTION OF A DISPLAY WITH A USER INTERFACE	Ravi Guides, Inc.	03/12/2027	03/12/2013	D677,686			05/31/2011	ued 29/393,189	US Iss	Rovi Guides, Inc.

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	SYSTEMS AND METHODS FOR PROVIDING CUSTOM MEDIA CONTENT FLIPPING	Rovi Guides, Inc.	07/31/2027	01/10/2017	9,544,526	12/15/2016	20160366362	06/26/2014	ed 14/316,338	US	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING CUSTOM MEDIA CONTENT FLIPPING	ROYI Guides, Inc.	RZ02/R0/G0	UB/US/ZU14	0,788,904			1020.200	30 11/555,075	S	Roy Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING MEDIA GUIDANCE PLANNERS	Cori Guides, Inc.	0 0 0	000000	0,001,041	0000000	N000000+	011011001	╀-	50 00	Solid Guides, III c.
	SYSTEMS AND METHODS FOR PROVIDING ENHANCED SPORTS WATCHING MEDIA GUIDANCE	Pout Cuides, Inc.	04 02 02 02 02 0	400000000	0 3000,100	03/06/2000	200000000000000000000000000000000000000	07242007		$\perp$	Box Cuides Inc
	SYSTEMS AND METHODS FOR PROVIDING ENHANCED SPORTS WATCHING MEDIA GUIDANCE	Royi Guides Inc	95/20/2029	07/26/2011	7 985 134	8000/2/120	20080064490	07/31/2007		$\perp$	Royi Guides Inc
	SYSTEMS AND METHODS FOR PROVIDING ENHANCED SPORTS WATCHING MEDIA GUIDANCE		06/08/2031	01/28/2014	8,640,165	03/13/2008	20080062318	07/31/2007	20 11/888,616	US ISSU	Royl Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING ENHANCED SPORTS WATCHING MEDIA GUIDANCE	Rovi Guides, Inc.				01/17/2019	20190020846	07/25/2018	ling 16/045,509	US Pen	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING ENHANCED SPORTS WATCHING MEDIA GUIDANCE	Rovi Guides, Inc.	10/17/2027	08/02/2016	9,407,854	08/14/2014	20140229992	04/22/2014	_	_	Rovi Guides, Inc.
	A A A A A A A A A A A A A A A A A A A	Rovi Guides, Inc.	07/31/2027	12/15/2015	9,215,397	08/14/2014	20140229996	04/22/2014	od 14/258,924	US Issued	Rovi Guides, Inc.
		Rovi Guides, Inc.	10/11/2031	06/03/2014	8,745,661	8002/21/20	20080066111	07/31/2007	nd 11/888,675	US Issu	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR EPISODIC ADVERTISEMENT TRACKING	Rovi Guides, Inc.	11/27/2030	04/08/2014	8,694,396			12/26/2007	nd 12/005,641	US Issur	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING A SCAN TRANSPORT BAR	Rovi Guides, Inc.	10/21/2030	03/26/2013	8,407,737			07/11/2007	3d 11/827,246	US Issu	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING BLACKOUT RECORDING AND SUMMARY INFORMATION	Rovi Guides, Inc.				12/27/2018	20180376196	06/26/2018	ling 16/018,410	Us Pending	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING BLACKOUT RECORDING AND SUMMARY INFORMATION	Rovi Guides, Inc.	04/27/2027	07/24/2018	10,034,044	01/30/2014	20140033252	10/02/2013	14/044,233	US	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING BLACKOUT RECORDING AND SUMMARY INFORMATION	Royl Guides, Inc.	0702020	11000000	0,010,410			U02/12/HD	20 10/40/410	US SSG	Roy Guides, Inc.
	ADVANCED RECORDING OPTIONS FOR INTERACTIVE MEDIA GUIDANCE APPLICATION SYSTEMS	Post Cuides ha	OF STATE OF	100000000000000000000000000000000000000	0,000,000	8000	201000000	0.0000000000000000000000000000000000000	10000	5 6	Dovi Guides, Inc.
	ADVANCED RECORDING OPTIONS FOR INTERACTIVE MEDIA GUIDANCE APPLICATION SYSTEMS	Double College	04.002.0027	420000044	0 000 022	4546/5645	2012022222	000000000000000000000000000000000000000		10 0	Dovidos Inc
	SYSTEMS AND METHODS FOR ALLOCATING BANDWIDTH IN SWITCHED DIGITAL VIDEO SYSTEMS BASED ON INTEREST	Royi Guides Inc	08/03/2030	09/24/2013	8 542 984			04/03/2007	+		Royi Guides Inc
	SYSTEMS AND METHODS FOR ALL-CCATING BANDWIDTH IN SWITCHED DIGITAL VIDEO SYSTEMS BASED ON INTEREST	Rovi Guides, Inc.	11/23/2027	12/06/2016	9.516.367	07/03/2014	20140189730	01/06/2014	14/148.283	US Issui	Roy Guides Inc.
		Royi Guides, Inc.	07/20/2027	01/07/2014	8.627.389	12/01/2011	20110296475	08/10/2011	nd 13/207.390	US Issu	Roy Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING PARENTAL CONTROL ASSET SEARCHING	Rovi Guides, Inc.	12/28/2026	03/19/2013	8,402,488	05/13/2010	20100122294	08/11/2009	>	$\perp$	Rovi Guides, Inc.
		Rovi Guides, Inc.	05/10/2027	12/13/2011	8,079,044			04/10/2006	_	US Issued	Rovi Guides, Inc.
	OLD THIS DESCRIPTION OF STREET WAS INKNOWN TO SHOW THE STREET WAS ASSESSED.	Rovi Guides, Inc.				05/09/2019	20190141408	08/20/2018	ling 15/999,696	US Pend	Rovi Guides, Inc.
		Rovi Guides, Inc.	02/28/2026	08/21/2018	10,057,655	06/23/2016	20160182968	02/22/2016	15/049,849	US Issu	Rovi Guides, Inc.
	METHOD FOR GENERATING TIME BASED PREVIEW IMAGE FOR A VIDEO STREAM	Rovi Guides, Inc.	02/28/2026	02/23/2016	9,271,042	12/18/2014	20140373037	08/27/2014	ed 14/470,877	US Issu	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR ENHANCED TRICK-PLAY FUNCTIONS	Ravi Guides, Inc.	08/08/2026	07/21/2015	9,088,827	11/24/2011	20110286721	05/06/2011	sd 13/102,763	US Issu	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR ENHANCED TRICK-PLAY FUNCTIONS	Rovi Guides, Inc.	09/06/2028	06/14/2011	7,962,942			02/28/2006	ed 11/365,787	US Issu	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING PARENTAL CONTROL FEATURES IN VIDEO MOSAIC ENVIRONMENTS	Rovi Guides, Inc.				11/22/2018	20180338184	07/31/2018	ling 16/049,990	US Peno	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING PARENTAL CONTROL FEATURES IN VIDEO MOSAIC ENVIRONMENTS	Rovi Guides, Inc.	08/24/2026	08/07/2018	10,045,087			03/18/2014	nd 14/218,149	US Issui	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING PARENTAL CONTROL FEATURES IN VIDEO MOSAIC ENVIRONMENTS		01/15/2031	05/06/2014	8,719,857			08/24/2006	nd 11/510,247	US	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING BLACKOUT SUPPORT IN VIDEO MOSAIC ENVIRONMENTS	Rovi Guides, Inc.	08/24/2026	09/24/2019	10,425,670	01/04/2018	20180007410	08/30/2017	nd 15/690,523	US Issu	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING BLACKOUT SUPPORT IN VIDEO MOSAIC ENVIRONMENTS	Rovi Guides, Inc.	08/24/2026	09/26/2017	9,774,897	10/06/2016	20160295261	06/14/2016	ed 15/182,067	US Issu	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING BLACKOUT SUPPORT IN VIDEO MOSAIC ENVIRONMENTS	Rovi Guides, Inc.	09/22/2028	06/28/2016	9,380,340	09/10/2015	20150256881	05/01/2015	ed 14/701,922	US Issui	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING BLACKOUT SUPPORT IN VIDEO MOSAIC ENVIRONMENTS	Rovi Guides, Inc.	09/22/2028	05/12/2015	9,032,430	03/13/2008	20080086103	08/24/2006	nd 11/510,363	US Issu	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING A SCAN	Rovi Guides, Inc.	05/08/2026	04/23/2013	8,429,686	03/29/2012	20120076473	12/02/2011	ad 13/310,622	US Issui	Rovi Guides, Inc.
F	SYSTEMS AND METHODS FOR PROVIDING A SCAN	Rovi Guides, Inc.	07/10/2028	07/22/2014	8.787.736	07/07/2011	20110164861	03/16/2011	_	US Issued	Rovi Guides, Inc.
RE	SYSTEMS AND METHODS FOR PROVIDING A SCAN	Rovi Guides, Inc.	12/27/2027	01/10/2012	8,095,951			05/08/2006	ed 11/430,516	US Issu	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING A SCAN	Rayl Guides, Inc.	01/30/2030	02/26/2013	8,387,089			05/08/2006	od 11/431,128	US Issued	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING A SCAN	Rovi Guides, Inc.	05/08/2026	11/10/2015	9,185,332	05/24/2012	20120131616	01/19/2012	ad 13/353,725	US Issu	Rovi Guides, Inc.
• •	SYSTEMS AND METHODS FOR PROVIDING A SCAN	Rovi Guides, Inc.	05/08/2026	02/28/2012	8.127,329			08/11/2008	nd 12/189,386	US Issu	Royl Guides, Inc.
0	SYSTEMS AND METHODS FOR CONTENT SURFING	Rovi Guides, Inc.	05/08/2026	05/19/2015	9,038,103	04/17/2014	20140109143	12/18/2013	od 14/132,585	US Issued	Rovi Guides, Inc.
I 53	SYSTEMS AND METHODS FOR CONTENT SURFING	Rovi Guides, Inc.	05/08/2026	01/28/2014	8,640,166			10/19/2009	nd 12/581,291	US Issu	Rovi Guides, Inc.
۰ <i>۱</i>	PLAYLISTS AND BOOKMARKS IN AN INTERACTIVE MEDIA GUIDANCE APPLICATION SYSTEM	Rovi Guides, Inc.				04/19/2018	20180107307	08/03/2017	ling 15/668,406	US Penc	Rovi Guides, Inc.
<b>\</b>	PLAYLISTS AND BOOKMARKS IN AN INTERACTIVE MEDIA GUIDANCE APPLICATION SYSTEM	Rovi Guides, Inc.	12/12/2027	09/05/2017	9,753,602	01/02/2014	20140006852	06/14/2013	13/918,478	US ISSU	Rovi Guides, Inc.
Γ <b>Ε</b>	PLAYLISTS AND BOOKWARKS IN AN INTERACTIVE MEDIA GUIDANCE APPLICATION SYSTEM	Rovi Guides, Inc.	12/12/2027	07/16/2013	8,489,990	11/30/2006	20060267995	03/02/2006	nd 11/366,863	US Issue	Rovi Guides, Inc.
<u> </u>	MEDIA CONTROL SYSTEM WITH VIEWER REWARDS	Rovi Guides, Inc.	11/14/2025	10/14/2014	8,863,168	09/30/2010	20100251281	12/15/2009	nd 12/638,029	US Issu	Rovi Guides, Inc.
IT <b>?</b>	PARENTAL MEDIA PALETTES	Rovi Guides, Inc.	06/07/2026	03/17/2015	8,984,550	04/28/2011	20110099572	10/25/2010	ad 12/911,114	US Issui	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR MANAGING A STATUS CHANGE OF A MULTIMEDIA ASSET IN MULTIMEDIA DELIVERY SYSTEMS	Rovi Guides, Inc.	12/29/2025	07/30/2019	10,368,138	08/15/2016	20160269796	05/19/2016	od 15/159,498	US Issued	Rovi Guides, Inc.
<b>/1</b>	SYSTEMS AND METHODS FOR MANAGING A STATUS CHANGE OF A MULTIMEDIA ASSET IN MULTIMEDIA DELIVERY SYSTEMS	Rovi Guides, Inc.	12/29/2025	06/21/2016	9,374,560	09/20/2012	20120240145	06/04/2012	nd 13/487,518	US Issued	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR MANAGINS A STATUS CHANGE OF A MULTIMEDIA ASSET IN MULTIMEDIA DELIVERY SYSTEMS	Rovi Guides, Inc.	05/18/2028	07/03/2012	8,214,869	07/19/2007	20070168539	12/29/2005	ad 11/324,201	US Issued	Rovi Guides, Inc.
0	SYSTEMS AND METHODS FOR RESOLVING CONFLICTS AND MANAGING SYSTEM RESOURCES IN MULTIMEDIA DELIVERY SYSTEMS	Ravi Guides, Inc.	05/29/2026	07/27/2010	7,765,235	07/26/2007	20070174336	12/29/2005	od 11/323,984	US Issu	Rovi Guides, Inc.
8	SYSTEMS AND METHODS FOR USING PLAYLISTS	Rovi Guides, Inc.				08/09/2018	20180227533	04/02/2018	ling 15/842,973	US Penc	Rovi Guides, Inc.
1 7	SYSTEMS AND METHODS FOR USING PLAYLISTS	Rovi Guides, Inc.	12/24/2027	05/08/2018	9,967,509	03/29/2012	20120079385	12/02/2011	nd 13/309,839	US Issued	Rovi Guides, Inc.
7	SYSTEMS AND METHODS FOR USING PLAYLISTS	Rovi Guides, Inc.	08/04/2029	08/25/2015	9,118,868	07/14/2011	20110170840	03/28/2011	13/073,285	US Issu	Rovi Guides, Inc.

	FANTASY SPORTS CONTEST HIGHLIGHT SEGMENTS SYSTEMS AND METHODS						-			0
	FANTASY SPORTS CONTEST HIGHLIGHT SEGMENTS SYSTEMS AND METHODS	Royi Technologies Corporation	08/30/2022	01/31/2017	108 252 8	07/03/2014	03/05/2014 20140188517	03/05	Ssued	Roy Technologies Corporation
	STS LEWS AND METHOUS FOR PROVIDING ADVERTISEMENTS IN A FANTAST SPORTS CONTEST APPLICATION	Rovi Technologies Corporation	03/01/2028	04/22/2014	8,702,504		0/2002	08/30	US Issued 10/234,725	Rovi Technologies Corporation
	SCHERCE AND STATE TO DESCRIPTION OF DESCRIPTION OF STATE	Rovi Technologies Corporation				08/30/2018	12/23/2018 20180243655	02/20	US Pending 15/903,270	Rovi Technologies Corporation
	SYSTEMS AND METHODS FOR PROVIDING ADVERTISEMENTS IN A FANTASY SPORTS CONTEST APPLICATION	Rovi Technologies Corporation	03/23/2023	04/03/2018	895,156,6	01/09/2014	7/03/2013 20140011587	07/0	US Issued 13/934,782	Rovi Technologies Corporation
	SYSTEMS AND METHODS FOR PROVIDING ADVERTISEMENTS IN A FANTASY SPORTS CONTEST APPLICATION	Rovi Lechnologies Corporation	08/30/2022	ZLDZVANBO	188,865,8	0102781/80	-	04/21	US ISSUED 12/70,000	Row Leannologies Corporation
	SYSTEMS AND METHODS FOR PROVIDING ADVERTISEMENTS IN A FANTASY SPORTS CONTEST APPLICATION	Novi leciliologies Colpuration	0.2023/40	u problem	0,000,040	00/19/2010	٠.	22/140	- Dance	Con legition Sies Corporation
	SYSTEMS AND METHODS FOR PROVIDING ADVERTISEMENTS IN A FANTASY SPORTS CONTEST APPLICATION	Novi leciliologies Colpulation	0 000	O NORTH N	0,600,704	000000000000000000000000000000000000000	20100116001	1000	la la	Jogies Colpu
	METHOD AND SYSTEM FOR REVERSE UNIVERSAL REMOTE CONTROL FEATURE	d consequence	000000000000000000000000000000000000000	0171002000	0.000,000	27112000	-	2000	i di	Hadron, mo.
	SYSTEM AND METHOD FOR PREPROGRAMMED PURCHASING OF TELEVISION OFFERED PRODUCTS	Royi Guides, Inc.	00/08/00/0	04/48/2005	0,100,020	15/11/5003	2/34/2003 20030102000	02/3	Booled of	Roy Guides Inc.
	SYSTEMS AND METHODS FOR CAPTURING AND STORING AN IMAGE RELATED TO A MEDIA ASSET	Boyl Cuides Inc.	020000000000000000000000000000000000000	0.10202010	6,110,610	000000000000000000000000000000000000000	3 N	920	To Science	Boyl Guides, Inc.
	SYSTEMS AND METHODS FOR CAPTURING AND STORING AN ADVERTISEMENT-RELATED VIDEO CLIP	Dovi Guidae Inc	00000	00/25/2015	0449079	08/08/3014		100	Po inch	Dock Outdoor Inc
	SYSTEMS AND METHODS FOR CAPTURING AND STORING A PRODUCT-RELATED VIDEO FRAME	Rovi Guides, Inc.	05/19/2023	07/28/2014	8 793 742	02/28/2013	_	10/26	Issued	Roy Guides, Inc.
	OF THE WAS TOUCHE LINE AND TOUCHE TO THE WOOD OF	Rovi Guides, Inc.	05/31/2023	11/27/2012	8,321,896	03/31/2011	09/01/2010 20110078745	09/0	US Issued 12/873,460	Rovi Guides, Inc.
		Rovi Guides, Inc.	10/01/2026	10/12/2010	7,814,511	09/18/2003	7/2003 20030177497	02/27	US Issued 10/375,931	Royl Guides, Inc.
		Rovi Guides, Inc.	11/09/2021	05/10/2011	7,941,818	03/27/2008	8/01/2007 20080077958	08/0	US Issued 11/888,896	Rovi Guides, Inc.
	SYSTEM AND METHOD FOR UTILIZING EPG DATABASE FOR MODIFYING ADVERTISEMENTS	Rovi Guides, Inc.	11/09/2021	09/04/2007	7,266,833	03/04/2004	/03/2003 20040045025	06/03	US Issued 10/453,388	Rovi Guides, Inc.
	VIDEO TAPE INDEXING SYSTEM AND METHOD	Rovi Guides, Inc.	12/18/2019	12/13/2011	8,078,031	08/20/2009	14/27/2009 20090210906	04/21	US Issued 12/430,630	Rovi Guides, Inc.
	WIDEO TAPE INDEXING SYSTEM AND METHOD	Rovi Guides, Inc.	12/18/2019	06/02/2009	7,542,657	05/06/2004	0/2003 20040086266	06/20	US Issued 10/601,224	Rovi Guides, Inc.
	WIDEO TAPE INDEXING SYSTEM AND METHOD	Rovi Guides, Inc.	12/18/2019	08/19/2003	6,608,963		2/18/1999	12/18	US Issued 09/467,538	Rovi Guides, Inc.
	SMART AGENT BASED ON HABIT, STATISTICAL INTERFENCE AND PSYCHOLDEMOGRAPHIC PROFILING	Rovi Guides, Inc.	11/30/2019	02/21/2006	7,003,792		1/30/1999	11/30	Issued	Ravi Guides, Inc.
	SYSTEM AND METHOD FOR GENERATING VIDEO TAPING REMINDERS	Rovi Guides, Inc.	12/07/2019	05/16/2017	9,654,836	06/16/2016	12/15/2015 20160173952		US Issued 14/970,246	Rovi Guides, Inc.
	SYSTEM AND METHOD FOR GENERATING VIDEO TAPING REMINDERS	ROVI Guides, Inc.	BLOZZZDZZ	07/28/2014	8,782,770	01/24/2013	-		ISSUBO	Royl Guides, Inc.
	SYSTEM AND METHOD FOR GENERATING VIDEO TAPING REMINDERS			2 2 2	0,100,100	200000000000000000000000000000000000000	200000000000000000000000000000000000000			Part of the control o
	SYSTEM AND METHOD FOR GENERATING VIDEO TAPING REMINDERS	Dovi Cuidee Inc	07/07/00	00/44/2012	9 305 459	10/20/0004	3	07/02	00.00	Dovides Inc
	SYSTEM AND METHOD OF CHANNEL MAP CORRECTION IN AN EPG GUIDE	Boxi Cuides Inc	10/07/00/10	09/14/2004	A 700 107		12/07/1000		ng ipo	Pout Cuides Inc
	MEMORY CONTROLLER AND INTERFACE	Royl Guides, Inc.	03/15/2020	08/27/2002	6,442,757		03/15/2000		Issued 09	Royl Guides, Inc.
	VEI NOSEX IEX	Rovi Guides, Inc.	06/13/2021	01/20/2004	6,681,285		726/2000	07/26	US Issued 08/626,464	Rovi Guides, Inc.
	CONTRICTION OF THE CONTRICT SERVED INCOME OF TABLE	Rovi Guides, Inc.	08/09/2021	10/21/2003	6,636,268		18/1 8/2000	08/18	US Issued 09/640,894	Rovi Guides, Inc.
	DOMA OAD SYSTEM FOR CONSUMER FUECTEONIC DEVICES	Rovi Guides, Inc.	05/15/2020	12/16/2003	6,665,871		15/1 5/2000	05/15	US Issued 09/571,518	Rovi Guides, Inc.
	CONSUMER ELECTRONIO DEVICES WITH UPGRADE CAPABILITY	Rovi Guides, Inc.	05/12/2021	10/05/2004	6,801,966		37/06/2000	07/06	US Issued 09/611,363	Rovi Guides, Inc.
	DECIMATION METHOD FOR PROVIDING PIG WANDOWS	Rovi Guides, Inc.	03/31/2020	05/28/2002	6,397,386		1/2000	03/31	US Issued 08/540,570	Rovi Guides, Inc.
		Rovi Guides, Inc.	10/26/2022	06/05/2012	8,196,167	10/02/2003	4/2003 20030188309	03/24	US Issued 10/396,036	Rovi Guides, Inc.
	HOME ENTERTAINMENT SYSTEM AND METHOD OF ITS OPERATION	Rovi Guides, Inc.	05/19/2022	04/01/2014	8,689,259	09/08/2005	0/12/2004 20050198668	10/12	US Issued 10/963,764	Rovi Guides, Inc.
	SYSTEM AND METHOD FOR MODIFYING ADVERTISEMENT RESPONSIVE TO EPG INFORMATION	Rovi Guides, Inc.	06/10/2021	01/21/2014	8,635,649	06/13/2002	12/04/2002 20020073424	02/04	US Issued 10/066,811	Rovi Guides, Inc.
	SYSTEM AND METHOD FOR GRAZING TELEVISION CHANNELS FROM AN ELECTRONIC PROGRAM GUIDE	Rovi Guides, Inc.	09/21/2021	6002/22/60	7,594,243	02/19/2004	W11/2003 20040034866	08/1:	US Issued 10/638,844	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING AN INTERFACE FOR DATA DRIVEN MEDIA PLACEMENT	Rovi Technologies Corporation	02/26/2034	09/29/2015	9,147,198	07/10/2014	2/27/2013   20140196081	12/21	US Issued 14/142,223	Rovi Technologies Corporation
RE	USER CONTROLLED MULTI-DEVICE MEDIA-ON-DEMAND SYSTEM	Rovi Technologies Corporation				06/06/2019		11/20	Pending 1	Rovi Technologies Corporation
	USER CONTROLLED MULTIDEVICE MEDIA-ON-DEMAND SYSTEM	Rovi Technologies Corporation	09/29/2020	11/15/2016	9,497,508	03/10/2016	0/27/2015 20160073169	10/21	US Issued 14/924,161	Rovi Technologies Corporation
EL	USER CONTROLLED MULTI-DEVICE MEDIA-ON-DEMAND SYSTEM	Rovi Technologies Corporation	09/29/2020	10/13/2015	9,161,087	02/23/2012	- 0.1	10/24	Issued	Rovi Technologies Corporation
	USER CONTROLLED MULTIDEVICE MEDIA-ON-DEMAND SYSTEM	Rovi Technologies Corporation	09/29/2020	04/05/2016	9,307,291	01/12/2012	7/13/2011 20120008917	07/13	US Issued 13/181,915	Rovi Technologies Corporation
0	SYSTEMS AND METHODS FOR SELECTING MEDIA ASSETS FOR DISPLAY IN A SCREEN OF AN INTERACTIVE MEDIA GUIDANCE APPLICATION	Rovi Guides, Inc.	10/19/2029	06/11/2013	8,464,293	07/09/2009	2/31/2008 20090178083	12/31	US Issued 12/347,481	Rovi Guides, Inc.
1 53	SYSTEMS AND METHODS FOR IDENTIFYING AND MERGING RECORDED SEGMENTS BELONGING TO THE SAME PROGRAM	Rovi Guides, Inc.	08/06/2028	05/08/2018	9,966,111	09/15/2016		05/24	US Issued 15/163,202	Rovi Guides, Inc.
P/ 34	SYSTEMS AND METHODS FOR IDENTIFYING AND MERGING RECORDED SEGMENTS BELONGING TO THE SAME PROGRAM	Rovi Guides, Inc.	02/13/2029	06/21/2016	9,374,553	08/22/2013		03/16	US Issued 13/847,196	Rovi Guides, Inc.
۹ <sup>-</sup> 58	SYSTEMS AND METHODS OF TRANSTIONING FROM BUFFERING VIDEO TO RECORDING VIDEO	Rovi Guides, Inc.	06/13/2031	01/07/2014	8,624,908		6/27/2008	06/27	US Issued 12/215,690	Rovi Guides, Inc.
ΓE	SYSTEMS AND METHODS FOR DETECTING INCONSISTENT USER ACTIONS AND PROVIDING FEEDBACK	Rovi Guides, Inc.	11/12/2028	05/16/2017	9,654,825	10/15/2015	06/23/2015 20150296257	06/23	US Issued 14/747,458	Rovi Guides, Inc.
EN FI	SYSTEMS AND METHODS FOR DETECTING INCONSISTENT USER ACTIONS AND PROVIDING FEEDBACK	Rovi Guides, Inc.	02/14/2030	07/07/2015	9,077,934	08/16/2012	1/11/2012 20120210347	04/11	US Issued 13/444,173	Rovi Guides, Inc.
IT R/	SYSTEMS AND METHODS FOR DETECTING INCONSISTENT USER ACTIONS AND PROVIDING FEEDBACK	Rovi Guides, Inc.	01/18/2031	05/08/2012	8,176,510	05/13/2010	/12/2008 20100122293	11/12	US Issued 12/269,639	Roy Guides, Inc.
A I	SYSTEMS AND METHODS FOR RANKING ASSETS RELATIVE TO A GROUP OF VIEWERS	Rovi Guides, Inc.	06/27/2028	08/28/2015	9,148,701	11/14/2013	N1	07/12	Issued	Rovi Guides, Inc.
И	SYSTEMS AND METHODS FOR RANKING ASSETS RELATIVE TO A GROUP OF VIEWERS	Rovi Guides, Inc.	03/19/2030	08/13/2013	8,510,778	12/31/2009	N:	06/21	Issued	Roy Guides, Inc.
	SYSTEMS AND METHODS FOR ALERTING USERS OF THE POSTPONED RECORDING OF PROGRAMS					05/10/2018		06/23	Pending	Rovi Guides, Inc.
0	SYSTEMS AND METHODS FOR ALERTING USERS OF THE POSTPONED RECORDING OF PROGRAMS	Rovi Guides, Inc.	12/13/2028	08/01/2017	9,723,363	09/17/2015		03/22	Issued	Rovi Guides, Inc.
8	SYSTEMS AND METHODS FOR ALERTING USERS OF THE POSTPONED RECORDING OF PROGRAMS	Rovi Guides, Inc.	04/25/2031	03/24/2015	8,989,561		15/29/2008	05/26	US Issued 12/129,140	Rovi Guides, Inc.
18	STORAGE MANAGEMENT OF A RECORDING DEVICE IN A MULTI-USER SYSTEM	Rovi Guides, Inc.	03/07/2030	04/17/2012	8,160,426	04/16/2009	10/12/2007 20090100478	10/12	Issued 1	Rovi Guides, Inc.
3	CHANNEL SEARCHING BY CONTENT TYPE	Rovi Guides, Inc.	02/23/2027	07/16/2013	8,490,138	06/17/2010			Issued	Rovi Guides, Inc.

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	IMETHOD FOR PROVIDING APPLICATION MENU IN IMAGE DISPLAY DEVICE, AND IMAGE DISPLAY DEVICE USING SAME	Rovi Guides, Inc.	1502/80/80	7102/21/80	9,762,947	12/05/20/21	20130326557	08/13/2013	red  13/993,391	US ISS	Rovi Guides, Inc.
	INDERES SONDESSAUL DE LE TERMINAL ENING AN INSTANT MESSAGING SERVICE	Rovi Guides, Inc.	10/23/2030	11/12/2013	8,583,086	10/2/12/01	20100267369	01/27/2010	ued 12/695,140	US Issu	Rovi Guides, Inc.
	METHOD AND APPARATUS FOR SETTING ON-TIMER CHANNEL OF DIGITAL BROADCAST RECEIVER	Rovi Guides, Inc.	12/25/2021	05/04/2004	6,731,345	07/26/2001	20010010097	01/22/2001	Jed 09/766,406	US Isst	Rovi Guides, Inc.
	DIGITAL BROADCAST RECEIVING APPARATUS	Rovi Technologies Corporation	03/18/2028	07/15/2014	8.781,288		20080240681	06/29/2005	Jed 11/571,425	US Issu	Rovi Technologies Corporation
	DIGITAL BROADCAST RECORDING APPARATUS	Rovi Technologies Corporation	10/15/2029	07/08/2013	8,483,548	01/27/2011	20110019971	12/26/2008	Jed 12/810,817	US	Rovi Technologies Corporation
	MAGE DISPLAY APPARATUS	Rovi Technologies Corporation	06/07/2029	05/06/2014	8,717,339	07/21/2011	20110175867	03/25/2011	usd 13/121,100	US Issu	Ravi Technologies Corporation
	USING EMBEDDED DATA WITH FILE SHARING	Ravi Technologies Corporation	10/02/2021	03/30/2010	7,689,532			07/20/2000	Jed 09/620,019	US Issu	Ravi Technologies Corporation
	DYNAMIC PAGE GENERATION ACCELERATION USING COMPONENT-LEVEL CACHING BY DETERMINING A MAXIMUM NAVIGATION PROBABILITY FOR A PARTICULAR CACHELINE	Rovi Technologies Corporation	10/21/2021	06/23/2009	7,552,195	07/01/2004	20040128618	09/16/2003	10/663,325	US Issued	Rovi Technologies Corporation
	DYNAMIC PAGE GENERATION ACCELERATION USING COMPONENT-LEVEL CACHING	Rovi - echnologies Corporation	רבטבערבעטר	navazuus	6,622,768			11/24/2000	190 UB/72/200	US	Rovi Leannologies Corporation
	CONTENT SENSITIVE CONNECTED CONTENT	Rovi lechnologies Corporation	U0/14/202/	ZIUZIIIŒI	0,332,470	n3/21/2002	20020033844	LOOZ/LL/Man	JBG U9/952,475	US ISS	Roy Lechnologies Corporation
	METHODS AND APPARATUS FOR INDEXING AND ARCHIVING ENCODED AUDIOVIDEO DATA	Royi Technologies Corporation	90/2/2021	10202010	8,302,073	02/20/20/20	2014012000	07/07/07	18d 147157,150	5 6	Roy Technologies Corporation
	METHODS AND APPARATUS FOR INDEXING AND ARCHIVING ENCODED ALDIOVIDEO DATA	Boxi Technologies Corporation	020202020	44/22/2014	0.000,100	V POCI BUILD	704404702020	04.44.64.00.44	444.874.80	0 0	Box Technologies Corporation
	METHODS AND APPARATUS FOR INDEXING AND ARCHIVING ENCODED AUDIONIDEO DATA	Royi Technologies Comoration	ACUC/UNICO	01/21/2014	8 624 705	8000/20/01	Se ecscosono	10/29/2007	11/927 389	100	Roy Technologies Corporation
	METHODS AND APPARATUS FOR INDEXING AND ARCHIVING ENCODED AUDIOVIDEO DATA	Rovi Technologies Corporation	08/24/2025	03/13/2012	8,135,263	2002/B1/20	20070166013	09/08/2006	Jed 11/517,825	US Iss	Rovi Technologies Corporation
	IN PRINCIPLE POPULATION TO THE PRINCIPLE MODITOR TO HER STATE OF THE PRINCIPLE MODITOR TO HE PRINCIPLE MODITOR TO HER STATE OF THE PRINCIPLE MODIT	Rovi Technologies Corporation	05/26/2024	09/19/2006	7,110,664	11/06/2003	20030206717	04/20/2001	ued 09/839,355	US Isst	Rovi Technologies Corporation
	ME INDU AND APPARA I OS POR DISPATIVA MESSANCES IN COMPUTER STSTEMS	Rovi Technologies Corporation	04/30/2028	02/04/2014	8,644,316	12/23/2010	20100322091	04/15/2010	ued 12/760,759	US Isst	Ravi Technologies Corporation
		Rovi Technologies Corporation	05/21/2022	06/27/2006	7,069,515			05/21/2002	Jed 10/152,204	US ISSI	Rovi Technologies Corporation
		Rovi Technologies Corporation				08/24/2017	20170244993	05/05/2017	nding 15/587,827	US Per	Rovi Technologies Corporation
		Rovi Technologies Corporation	11/20/2021	05/09/2017	9,648,364	12/11/2014	20140366072	08/15/2014	Jed 14/460,524	US Issu	Rovi Technologies Corporation
	MULTILUSER MEDIA DELIVERY SYSTEM FOR SYNCHRONIZING CONTENT ON MULTIPLE MEDIA PLAYERS	Rovi Technologies Corporation	11/20/2021	09/16/2014	8,838,693	09/02/2010	20100223337	05/14/2010	red 12/780,236	US Isst	Ravi Technologies Corporation
	INTERACTIVE, MULTI-USER MEDIA DELIVERY SYSTEM	Rovi Technologies Corporation	11/20/2021	03/12/2013	8,396,931	08/19/2010	20100211650	04/30/2010	Jed 12/771,004	US Issued	Rovi Technologies Corporation
	SYSTEM AND METHOD FOR UPDATING DIGITAL MEDIA CONTENT	Rovi Technologies Corporation	10/17/2022	02/21/2012	8,122,466	05/17/2007	20070113264	01/11/2007	Jed 11/652,436	US Iss	Rovi Technologies Corporation
	SYSTEM AND METHOD FOR SHARING DIGITAL MEDIA CONTENT	Rovi Technologies Corporation	08/31/2023	12/08/2014	9,7808.0	7007/81/70	20070168463	usitizizuur	JB0 111//10,/03	US ISS	Row leannologies corporation
	INTERACTIVE, MULTI-USER MEDIA DELIVERY SYSTEM	Doug Technologies Comparetion	O O O O O O O O O O O O O O O O O O O	100000000000000000000000000000000000000	7,711,774	200000	20070100102	0242000	101 001 001 001	5 6	
	METHOD AND SYSTEM FOR SELECTIVELY SUPPLYING MEDIA CONTENT TO A USER AND MEDIA STORAGE DEVICE FOR USE THEREIN	Boxi Tachnologies Corporation	04.000.000	050000000000000000000000000000000000000	7744 774	- CONTROL	East of section	44.300.000	00/007.477	0 0	2 3
	METHOD OF ENHANCING MEDIA CONTENT AND A MEDIA ENHANCEMENT SYSTEM	Poul Technologies Compression	00/47/200	08/06/2012	8 50 600	10050007	20070250572	AUGC/U P/VO	11//00 880	0	
	METHOD OF ENHANGING MEDIA CONTENT AND A MEDIA ENHANCEMENT SYSTEM	Pay Technologies Corporation	CONCURRING	10/25/2011	7,000,000	90000000	0000170744	000000000	led 12/380 701	10 G	Povi Technologies Corporation
XF PRIMARY DATA WAREHOUS	SYSTEM FOR PROVIDING FAULT TO LETANT DATA WAREHOUSING ENVIRONMENT BY TEMPORARY TRANSMITTING DATA TO ALTERNATE DATA WAREHOUSE DURING AN INTERVAL OF PRIMARY DATA WAREHOUSE OF PRIMARY DATA WAREHOUSE DURING AN INTERVAL DATA WAREHOUSE DURING AND PRIMARY DATA	Davi Technologies Compression	10,000,000	02400000	7.502.050			13/38/3001		_	Dord Technologies Compretion
	METHOD AND SYSTEM FOR DELIVERING CONTENT OVER A NETWORK	Technolo	08/09/2025	01/15/2013	RE43.933			08/07/2009		US Issued	
	INTERFACE AND METHOD ADAPTED FOR CAPTURING SUBJECTIVE PREFERENCES OF PROGRAM USERS	Royi Technologies Corporation	08/04/2027	1207/2011	8 086 750	2006/86/61	20050288145	01/03/2005	Jed 11/029 212	US	Royl Technologies Corporation
	MIERFACE AND PROGRAM USING VISUAL DALA ARRANGENENTS FOR EXPRESSING USER PREFERENCES CONGERNING AN ACTION OF TRANSACTION		04/12/2020	06/15/2010	7,739,621	03/14/2002	20020030701	08/31/2001	Jed 09/945,099	US Iss	Rovi Technologies Corporation
	DIOUX INAUJINA PETURA I DUI PATE I TRA LOGITATI PO DOS TRADORIOS I DOS PROTECTOS O OLIGOTATIVO ALL COTALIO DE PATE I DEL COTALIO DEL COTALIO DEL COTALIO DEL COTALIO DE PATE I DEL COTALIO DEL C	Rovi Technologies Corporation	08/19/2020	05/08/2007	7,216,299	05/09/2002	20020054111	08/31/2001	Jed 09/944,624	US ISS	Rovi Technologies Corporation
	פייטיאל דמאראואי מפגן ויאדאי ופס אייטיאל	Ravi Technologies Corporation	12/02/2021	01/13/2009	7,478,063	01/22/2004	20040012624	08/31/2001	ued 09/945,184	US Issu	Rovi Technologies Corporation
	ACTIVE MATRIX I OU ID OBYSTAL TINSEL AY HAVING STORAGE GARAGOTOSS OE AREA SMALLER THAN THAT OF PIXEL ELECTRODES	Rovi Technologies Corporation	06/26/2020	03/12/2002	6,356,318			06/26/2000	usd 09/803,047	US Issu	Rovi Technologies Corporation
	DISPLAY DEVICE HAVING AN ANISOTROPIC-CONDUCTIVE ADHESIVE FILM	Ravi Technologies Corporation	07/06/2027	02/17/2009	7,492,434	7002/80/20	20070030433	08/03/2006	red 11/462,112	US Isst	Rovi Technologies Corporation
F		Rovi Technologies Corporation	06/17/2025	03/11/2008	7,343,011	01/15/2004	20040008840	04/29/2003	Jed 10/424,803	US Iss	Rovi Technologies Corporation
RE		Ravi Technologies Corporation	06/03/2024	02/21/2006	7,001,279			08/30/2002	usd 10/234,570	US Issu	Ravi Technologies Corporation
ΞE	SYSTEMS AND METHODS FOR PROVIDING MULTILLEVEL FANTASY SPORTS CONTESTS IN FANTASY SPORTS CONTEST APPLICATIONS	Rovi Technologies Corporation	08/19/2027	11/10/2009	7,614,944			08/30/2002	Jed 10/234,346	US Iss	Rovi Technologies Corporation
EL	SYSTEMS AND METHODS FOR INTEGRATING GRAPHIC ANIMATION TECHNOLOGIES IN FANTASY SPORTS CONTEST APPLICATIONS	Rovi Technologies Corporation				08/15/2019	20190251778	03/20/2019	nding 16/359,904	US Per	Ravi Technologies Corporation
	SYSTEMS AND METHODS FOR INTEGRATING GRAPHIC ANIMATION TECHNOLOGIES IN FANTASY SPORTS CONTEST APPLICATIONS	Rovi Technologies Corporation	08/30/2022	04/16/2019	10,262,499	08/13/2015	20150224407	04/28/2015	Jed 14/698,065	US Issu	Rovi Technologies Corporation
0	SYSTEMS AND METHODS FOR INTEGRATING GRAPHIC ANIMATION TECHNOLOGIES IN FANTASY SPORTS CONTEST APPLICATIONS	Ravi Technologies Corporation	08/30/2022	06/02/2015	9,047,734	07/11/2013	20130178284	02/13/2013	usd 13/766,511	US Issu	Rovi Technologies Corporation
53	SYSTEMS AND METHODS FOR INTEGRATING GRAPHIC ANIMATION TECHNOLOGIES IN FANTASY SPORTS CONTEST APPLICATIONS	Hovi Lechnologies Corporation	08/30/2022	03/19/2013	8,400,456	2102/82/11	20120304071	06/19/2012	Jed 13/527,338	US	Rovi Leannologies Corporation
P/	SYSTEMS AND METHODS FOR INTEGRATING GRAPHIC ANIMATION TECHNOLOGIES IN FANTASY SPORTS CONTEST APPLICATIONS	Ravi Technologies Corporation	08/30/2022	07/17/2012	8,223,154	03/31/2011	20110074816	12/10/2010	12/965,082	US Issu	Ravi Technologies Corporation
A 5	SYSTEMS AND METHODS FOR INTEGRATING GRAPHIC ANIMATION TECHNOLOGIES IN FANTASY SPORTS CONTEST APPLICATIONS	Rovi lechnologies colporation	00/30/2022	01/10/2011	7,072,000	12/10/2010	20100315426	U0/U4/2U1U	JB0 12/650, 106	oo lasuad	Row learnologies Corporation
TI 8	SYSTEMS AND METHODS FOR INTEGRATING GRAPHIC ANIMATION TECHNOLOGIES IN FANTASY SPORTS CONTEST APPLICATIONS	Roy Technologies Corporation	20200000	04460004	7,781,907	2000	10100312130	0007/01/00		٠.	Povi Technologies Corporation
₹N F	SYSTEMS AND METHODS FOR INTEGRATING GRAPHIC ANIMATION TECHNOLOGIES IN FANTASY SPORTS CONTEST APPLICATIONS	Covi Technologies Corporation	000000000000000000000000000000000000000	000000000000000000000000000000000000000	7,040,646			000000000000000000000000000000000000000	10/204,000	5 6	- 1
N7 R	SYSTEMS AND METHODS FOR PROVIDING FANTASY SPORTS CONTESTS BASED ON SUBEVENTS	Box Technologies Corporation	050000000000000000000000000000000000000	O CONTRACTOR	0,110,010			000000000000000000000000000000000000000	10/234,000	0 0	Box Technologies Corporation
AI	SYSTEMS AND METHODS FOR ROSTER MANAGEMENT IN FANTASY SPORTS CONTEST APPLICATIONS	Roy Lechnologies Corporation	3	3	100			8102/10/10	rding 16/458,775	C C C	Roy Technologies Corporation
VI	SYSTEMS AND METHODS FOR ROSTER MANAGEMENT IN FANTASY SPORTS CONTEST APPLICATIONS	Roy ecimologies Corporation	DEVOUEZUZZ	e nozuzion	10,081,008	1102112011	20170301214	102/4/2017	_	5 6	indias corpu
E:	SYSTEMS AND METHODS FOR ROSTER MANAGEMENT IN FANTASY SPORTS CONTEST APPLICATIONS	ecnnoio	08/30/2022	08/15/2017	8,731,183	0102762711	20160338344	0011203100	Ь.		:1 :
C	SYSTEMS AND METHODS FOR ROSTER MANAGEMENT IN FANTASY SPORTS CONTEST APPLICATIONS	Rovi Technologies Corporation	08/30/2022	06/07/2016	9,358,462	11/14/2013	20130303291	07/12/2013	Jed 13/940,550	US Issu	Roy Technologies Corporation
8	SYSTEMS AND METHODS FOR ROSTER MANAGEMENT IN FANTASY SPORTS CONTEST APPLICATIONS	Kovi lechnologies Corporation	05/25/2026	08/13/2013	8,908,828			2002/08/30/2002	Jed 10/234,345	US ISS	Roy Technologies Corporation
19	FANTASY SPORTS CONTEST HIGHLIGHT SEGMENTS SYSTEMS AND METHODS	Rovi lechnologies Corporation				61.07/1.7/20	20000002	10/24/2015	ending Teuros, usi	L,	Roy Lechnologies Corporation
9	FANTASY SPORTS CONTEST HIGHLIGHT SEGMENTS SYSTEMS AND METHODS		COLGGIA	100000000	0,100,000	040010000	201701701000	_	-		Taskaslasia Pararella
		Rovi Technologies Corporation	08/30/2022	11/27/2018	10,139,999	04/27/2017	20170115857	01/05/2017	ued 15/399,275	I IJS IIss	Rovi Technologies Corporation

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	CONFIGURING NETWORK SETTINGS USING PORTABLE STORAGE MEDIA	Rovi Technologies Corporation	03/23/2024	03/27/2012	8,145,735	08/11/2011	04/18/2011 20110196946	US Issued 13/088,943 0	Rovi Technologies Corporation
		Rovi Technologies Corporation	08/07/2024	04/19/2011	7,930,374	10/08/2009	20090254639	US Issued 12/422,750 0	Rovi Technologies Corporation
	CONFIGURING NETWORK SETTINGS USING PORTABLE STORAGE MEDIA	Ravi Technologies Corporation	03/30/2026	8002/80/90	7,546,357	07/07/2005	3/23/2004 20050148204	US Issued 10/806,369 0	Row Technologies Corporation
	TELEVISION CONTENT FROM MULTIPLE SOURCES	Rovi Technologies Corporation	12/31/2029	09/25/2012	8,276,182	09/17/2009	0/06/2008 20090235321	US Issued 12/246,290 1	Rovi Technologies Corporation
	RECORDED PROGRAMS RANKED BASED ON SOCIAL NETWORKS	Rovi Lechnologies Corporation	11/1/2030	ZIDZNZUT	8,320,746	8002781080	N.	11/956,356	Rovi Leannologies Corporation
	ANIMATED STATION IDENTIFIER IN PROGRAM GUIDES	Royi Lechnologies Corporation	011/23/2028	U3/25/2U14	576,588,8	01.02/27/GD	J1/24/2013 20130133000		Row Leannalogies Corporation
	ANIMATED STATION IDENTIFIER IN PROGRAM GUIDES	Rovi Lechnologies Corporation	02.02/80/01	STUZBELLO	8,365,222	0.02/82//0		ISSUED 12/358,153	Roy Lechnologies Corporation
	CATEGORIZED ELECTRONIC PROGRAM GUIDE	Rovi Technologies Corporation	08/18/2030	12/10/2013	8,607,268	07/15/2010	-	Issued 12/354,056	Rovi Technologies Corporation
	METHODS AND APPARATUS FOR PROVIDING MEDIA FROM CONTENT PROVIDERS USING A NETWORK INTERFACE DEVICE	Royl Solutions Corporation	00/00/20/20	RIDZIGOLIO	10,370,140	00/1/2017		ISSUBO   5444,570	Row Solutions Corporation
	METHODS AND APPARATUS FOR PROVIDING MEDIA FROM CONTENT PROVIDERS USING A NETWORK INTERFACE DEVICE	Royl Solutions Corporation	05/10/20/20	UANTIZUTY	8,027,000	1200012017	1/1 0/2006 200/0283046	ISSUED 11/090,/3/	Row Solutions Corporation
	METHODS AND APPARATUS FOR TRANSFERRING MEDIA ACROSS A NETWORK USING A NETWORK INTERFACE DEVICE	David Solutions Composition	04/00/00/00	040 040	7,888,60	and	2010 172000 20070202000	1550500 15444,504	Povi Sciuliona Corporation
	APPLICATIONS REGISTRY FOR A TELEVISION ENVIRONMENT	Royi Solutions Composition	04/22/2027	04/19/2011	7 929 551	12/06/2007	-	Issued 11/444 564	Roy Solutions Corporation
	WINDOWS MANAGEMENT IN A TELEVISION ENVIRONMENT	Royi Solutions Composition	09/12/2027	03/08/2011	7 904 923	09/13/2007	2/27/2005 20070214481	Issued 11/318 986	Royl Salutions Corporation
	WINDOWS MANAGEMENT IN A TELEVISION ENVIRONMENT	Rovi Solutions Corporation					ω	Pending 16/516,657	Roy Solutions Corporation
	WINDOWS MANAGEMENT IN A TELEVISION EINVIRONMENT	Rovi Solutions Corporation	12/27/2025	09/03/2019	10,405,053	02/22/2018		Issued 15/795,891	Rovi Solutions Corporation
	WINDOWS MANAGEMENT IN A TELEVISION ENVIRONMENT	Ravi Salutians Corporation	12/27/2025	11/21/2017	9,826,279	06/04/2015	-	Issued 14/607,181	Rovi Solutions Corporation
	WINDOWS MANAGEMENT IN A LECENSORY ENVIRONMENT	Rovi Solutions Corporation	01/22/2026	03/10/2015	8,976,297	07/05/2012	01/30/2012 20120169934	US Issued 13/361,657 0	Rovi Solutions Corporation
		Rovi Solutions Corporation	05/25/2029	01/31/2012	8,107,010	09/13/2007	2/27/2005 20070211174	US Issued 11/318,767 1	Rovi Solutions Corporation
		Ravi Guides, Inc.				10/18/2018	36/20/2018 20180301019	US Pending 16/013,438 0	Rovi Guides, Inc.
		Rovi Guides, Inc.	12/27/2025	07/17/2018	10,026,301	06/15/2017	12/14/2017 20170171136	US Issued 15/432,600 0	Rovi Guides, Inc.
		Rovi Guides, Inc.	10/17/2026	08/29/2017	9,747,783	10/09/2014	14/04/2014 20140300465	US Issued 14/245,783 0	Rovi Guides, Inc.
	METHODS AND APPARATUS FOR PROVIDING NOTIFICATIONS IN A MEDIA SYSTEM	Rovi Guides, Inc.	04/28/2027	05/20/2014	8,730,028	11/04/2010	8/25/2010 20100077948	US Issued 12/823,466 0	Rovi Guides, Inc.
	METHODS AND APPARATUS FOR PROVIDING NOTIFICATIONS IN A MEDIA SYSTEM	Rovi Guides, Inc.	04/28/2027	08/03/2010	7,768,388	09/13/2007	2/27/2005   20070210908	US Issued 11/318,811 1	Rovi Guides, Inc.
	METHODS AND APPARATUS FOR INTEGRATING DISPARATE MEDIA FORMATS IN A NETWORKED MEDIA SYSTEM	Ravi Salutians Corporation	06/03/2025	12/27/2011	8,086,575	09/20/2007	39/23/2004 20070220024	US Issued 10/949,775 0	Rovi Salutians Carporation
	METHODS AND APPARATUS FOR INTEGRATING MEDIA ACROSS A WIDE AREA NETWORK	Rovi Solutions Corporation				8107/81//0		Fending 16/243,585	Roy Colutions Corporation
	METHODS AND APPARATUS FOR INTEGRATING MEDIA ACROSS A WIDE AREA NETWORK	Royl Solutions Corporation	1202002020	01/10/2018	10,102,207	CHICATOR I	-	15255,788	Now Solutions Corporation
	METHODS AND APPARATUS FOR INTEGRATING MEDIA ACROSS A WIDE AREA NETWORK	Royl Solutions Corporation	1002/82/01	aluzilimi.	9,407,322	7002/02/00	3 1	ISSUBO 11/316,/93	Row Solutions Corporation
	RESOURCE MANAGEMENT FOR A NETWORKED PERSONAL VIDEO RECORDING SYSTEM						,	100000000000000000000000000000000000000	O Company
	WETHODS AND APPARATUS FOR CLIENT AGGREGATION OF TELEVISION PROGRAMMING IN A NETWORKED PERSONAL VIDEO RECORDING SYSTEM	ione	01/18/00/07	05/07/0013	8 438 604	Od Jones	+ .	10M13 300	Prod. Solutions Corporation
	METHODS AND APPARATUS FOR CLIENT AGGREGATION OF TELEVISION PROGRAMMING IN A NETWORKED PERSONAL VIDEO RECORDING SYSTEM	Royi Solutions Compration	08/03/00/20	11/01/2014	0,707,001	08/07/2014	M/07/2014 20140214621	18 Issued 14/247 048	Roy Solutions Corporation
	METHODS AND APPARATUS FOR CLIENT AGGREGATION OF TELEVISION PROGRAMMING IN A NETWORKED PERSONAL VIDEO RECORDING SYSTEM	David Solutions Comperation	000000000000000000000000000000000000000	OFFICE	0 707 004	000010000	3 1	1 0	
		Rovi Solutions Corporation	02/18/2026	11/18/2008	7.454.120	01/06/2005	N	Issued 10/613,400	Rovi Solutions Corporation
		Ravi Salutians Corporation	01/21/2026	10/13/2009	7,603,022	01/06/2005	07/02/2003 20050002640	US Issued 10/613,470 0	Rovi Salutians Carporation
	THE TRACK THE DESCRIPTION OF A METALOGICAL PROPERTY OF STATE OF CONTROL OF STATE OF	Rovi Solutions Corporation	08/13/2025	11/25/2008	7,457,511	01/06/2005	07/02/2003 20050002639	US Issued 10/613,401 0	Rovi Solutions Corporation
	METHODS AND ABBAT IS TOO DENDEBNO. ISED INTERESTORS AND PISCULATION ON DESIGNED OF IEAT DESIGNED.	Ravi Salutians Corporation	02/17/2025	08/11/2009	7,574,691	09/23/2004	02/14/2004 20040183756	US Issued 10/779,953 0	Rovi Salutians Carporation
		Rovi Solutions Corporation	03/17/2025	05/01/2007	7,213,228	09/23/2004	13/17/2003 20040183827	US Issued 10/391,116 0	Rovi Solutions Corporation
RE	METHODS AND APPARATUS FOR CLIENT AGGREGATION OF MEDIA IN A NETWORKED MEDIA SYSTEM	Ravi Salutians Corporation	05/09/2028	01/06/2015	8,931,010	05/06/2004	1/04/2002 20040088731	US Issued 10/288,505 1	Rovi Salutians Carporation
	HOWE MEDIA NETWORK	Rovi Solutions Corporation	07/19/2021	08/11/2009	7,574,723	07/17/2003	27/18/2001 20030135859	US Issued 09/910,316 0	Rovi Solutions Corporation
L		Rovi Guides, Inc.	12/24/2020	01/01/2013	8,346,963	07/14/2011	3/25/2011 20110171981	US Issued 13/072,154 0	Rovi Guides, Inc.
:	METHOD OF SENDING AND RECEIVING PERSONAL INFORMATION BY USING MOBILE TERMINAL	Rovi Guides, Inc.	04/14/2022	04/12/2011	7,925,779	09/21/2006	5/24/2006 20060212600	US Issued 11/439,169 0	Rovi Guides, Inc.
0;	METHOD OF SENDING AND RECEIVING PERSONAL INFORMATION BY USING MOBILE TERMINAL	Ravi Guides, Inc.	05/08/2022	06/06/2006	7,058,686	07/04/2002	2/14/2000 20020084888	US Issued 09/735,532	Rovi Guides, Inc.
I 53	POWER SAVING METHOD FOR MOBILE COMMUNICATION TERMINAL	Rovi Guides, Inc.	10/07/2022	03/22/2011	7,912,517	05/17/2007	11/03/2007 20070111764	US Issued  11/648,671   0	Royl Guides, Inc.
۰ <i>ړ</i> 4	POWER SAVING METHOD FOR MOBILE COMMUNICATION TERMINAL	Ravi Guides, Inc.	10/07/2022	07/10/2007	7,242,971	11/28/2002	4/08/2002 20020177475	US   Issued   10/117,058   0	Rovi Guides, Inc.
Ą⁻ 58	ANTENNA AND MOBILE TERMINAL HAVING THE SAME	Rovi Guides, Inc.	06/12/2033	03/31/2015	8,995,910	10/10/2013	1/26/2012 20130267170	US Issued 13/685,208	Rovi Guides, Inc.
ΓE 3	MOBILE COMMUNICATION TERMINAL AND INFORMATION DISPLAY METHOD THEREOF	Rovi Guides, Inc.				02/12/2015	09/23/2014 20150046873	US Pending 14/493,714 0	Rovi Guides, Inc.
EN FI	MOBILE COMMUNICATION TERMINAL AND INFORMATION DISPLAY METHOD THEREOF	Rovi Guides, Inc.	08/14/2027	01/13/2015	8,934,943	01/27/2011		Issued 12/898,598	Rovi Guides, Inc.
IT R/	MOBILE COMMUNICATION TERMINAL AND INFORMATION DISPLAY METHOD THEREOF	Rovi Guides, Inc.	09/23/2028	10/26/2010	7,822,443	11/01/2007	3/21/2007 20070254722	US Issued 11/723,709 0	Rovi Guides, Inc.
- A IV		Rovi Guides, Inc.	11/07/2031	11/21/2017	9,826,268	07/07/2016	01/22/2016 20160188213	Issued 15/004,090	Rovi Guides, Inc.
<b>VI</b>		Rovi Guides, Inc.	07/13/2032	03/01/2016	9,277,163	11/08/2012	1/07/2011 20120284751	Issued 13/290,327 1	Rovi Guides, Inc.
		Rovi Guides, Inc.	03/24/2031	02/21/2017	9,578,272	08/13/2015	24/21/2015 20150229870	US Issued 14/692,341 0	Rovi Guides, Inc.
0		Rovi Guides, Inc.	03/24/2031	05/26/2015	9,041,862	10/30/2014		Issued 14/329,126	Rovi Guides, Inc.
8	DISPLAY APPARATUS AND METHOD FOR CONTROLLING THE DISPLAY APPARATUS	Rovi Guides, Inc.	07/31/2031	08/12/2014	8,804,039	04/12/2012	23/24/2011 20120086857	Issued 13/071,226	Rovi Guides, Inc.
20	LANGUAGE DISPLAYING APPARATUS FOR DIGITAL TV AND METHOD FOR THE SAME	Rovi Guides, Inc.	01/28/2023	06/06/2006	7,057,669	04/18/2002	10/09/2001 20020044222	US Issued 09/971,613 1	Rovi Guides, Inc.
	METHOD FOR PROVIDING APPLICATION MENU IN IMAGE DISPLAY DEVICE, AND IMAGE DISPLAY DEVICE USING SAME	Rovi Guides, Inc.					19/12/2019	Pending 16/569,618	Rovi Guides, Inc.
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	METHODS AND SYSTEMS FOR INDEPENDENTLY CONTROLLING THE PRESENTATION SPEED OF DIGITAL VIDEO FRAMES AND DIGITAL AUDIO SAMPLES	rost recitionegies corporation	0070 12020	001002000	,000,101	CONTRACTOR OF	EGGGG IEE I GE	0.00000	125000501	1300	TOWN TO CONTROL OF CON
	METHODS AND SYSTEMS FOR INDEPENDENTLY CONTROLLING THE PRESENTATION SPEED OF DIGITAL VIDEO FRAMES AND DIGITAL AUDIO SAMPLES	Poul Technologies Compretion	08/24/2020	000/45/2000	7 590 701	0.000	20000122102	01/14/2000		lo les les	Dow Technologies Corporation
	METHODS AND SYSTEMS FOR INDEPENDENTLY CONTROLLING THE PRESENTATION SPEED OF DIGITAL VIDEO FRAMES AND DIGITAL AUDIO SAMPLES	Royi Technologies Corporation	01/03/2022	02/24/2009	7 495 705	900c/20/c0	20060031898	10/12/2005	┸	┸	Royi Technologies Corporation
	METIDU WILL AFFARA I DE FUR MULUULA IIMA VILIEU SIBWALA	Rovi Technologies Corporation	07/23/2023	12/13/2005	6,975,363			08/31/2000	Jed 09/652,058	US Issued	Row Technologies Corporation
	METADO AND ARRADAT IS EDULADIA ANTRA OFFICA STOMA S	Rovi Technologies Corporation	07/07/2022	11/14/2006	7.136.112	10/06/2005	20050219412	05/31/2005	aed 11/140,835	US Issued	Rovi Technologies Corporation
	METHOD AND APPARATUS FOR MODULATING VIDEO SIGNALS	Rovi Technologies Corporation	06/29/2022	12/19/2006	7,151,576	10/06/2005	20050218413	05/31/2005	11/140,848	US Issu	Rovi Technologies Corporation
	METHOD AND APPARATUS FOR MODULATING VIDEO SIGNALS	Rovi Technologies Corporation	01/08/2024	10/18/2005	6,956,622	01/01/2004	20040001162	06/27/2002	and 10/185,951	US Issu	Rovi Technologies Corporation
	EPG-CONDITIONED LETTERBOX-TO-ANAMORPHIC CONVERSION	Rovi Technologies Corporation	01/07/2023	12/15/2009	7,633,553	03/24/2005	20050066359	10/22/2004	10/972,163	US Issued	Rovi Technologies Corporation
	EPG-CONDITIONED LETTERBOX-TO-ANAMORPHIC CONVERSION	Rovi Technologies Corporation	01/07/2023	06/30/2009	7,554,606	03/10/2005	20050052574	10/22/2004	led 10/970,902	US Issued	Rovi Technologies Corporation
	EPG-CONDITIONED LETTERBOX-TO-ANAMORPHIC CONVERSION	Rovi Lechnologies Corporation	01/0//2023	1775/2005	0,905,415	SDOZVOLVA	20030128283	01/04/2002	10/038,224	US	Row Leannologies Corporation
	PRE-FRAGMENTATION OF DATA DESTINED FOR LOW RESOURCE CLIENTS	Rovi Technologies Corporation	01/31/2022	02/22/2011	7,895,627	01/01/2009	2807000002	8002/80/80	abd 12/20/,154	USSISSU	Row Technologies Corporation
	PRE-FRAGMENTATION OF DATA DESTINED FOR LOW RESOURCE CLIENTS									ᆫ	
	MONITORING PRESENTATION TIMESTAMPS	Rovi Technologies Corporation	12/08/2024	06/02/2009	7,543,324	07/31/2003	20030145327	01/31/2002	-		Rovi Technologies Corporation
	NONGRIU ELEVISION GUIDE	Rovi Technologies Corporation	09/06/2029	05/15/2012	8.181,217	07/02/2009	20090172457	12/27/2007	_	Us Issued	Row Technologies Corporation
	AND CONTROL OF THE PRODUCT AND AND CONTROL OF THE PRODUCT OF THE CONTROL OF THE C	Rovi Technologies Corporation	01/24/2031	06/03/2014	8,745,664	10/01/2009	20080249398	03/26/2008	red 12/056,117	US ISSU	Row Technologies Corporation
	ALITOMATIC LAYOUT OF IMPRENICTABLE CONTENT FROM MULTIPLE SOURCES	Rovi Technologies Corporation	01/20/2027	12/01/2009	7,627,600	12/20/2007	20070294238	06/20/2006	and 11/425,300	US Issu	Rovi Technologies Corporation
	SYSTEMS AND METHODS FOR PROVIDING A DYNAMICALLY CONTROLLABLE USER INTERFACE THAT EMBRACES A VARIETY OF MEDIA	Rovi Technologies Corporation	12/28/2022	07/11/2006	7,076,734	12/26/2002	20020196268	06/22/2001	pad 09/887,609	US Issu	Rovi Technologies Corporation
	ELECTRONIC PROGRAM GUIDE DISPLAYED SIMULTANEOUSLY WITH TELEVISION PROGRAMMING	Rovi Technologies Corporation	07/19/2022	12/15/2009	7,634,791	02/09/2006	20060031881	09/30/2005	red 11/241,662	US Issued	Rovi Technologies Corporation
	ELECTRONIC PROGRAM GUIDE DISPLAYED SIMULTANEOUSLY WITH TELEVISION PROGRAMMING	Kovi Lechnologies Corporation	05/14/2021	DLDZIRZIGO	7,748,016	BOOZIZIOSO	21807008005	מטטבעט ריגדר	180 12/268,330	OS	Roy Leannologies Corporation
	ELECTRONIC PROGRAM GUIDE DISPLAYED SIMULTANEOUSLY WITH TELEVISION PROGRAMMING	Roy Technologies Corporation	OPIGZIZOZ I	11/11/2000	7,401,400	70021200	200000000000000000000000000000000000000	dzi i dizbor	10070,102	5 6	Town leadingling Corporation
	ELECTRONIC PROGRAM GUIDE DISPLAYED SIMULTANEOUSLY WITH TELEVISION PROGRAMMING	Port Technologies Corporation	000000000000000000000000000000000000000	44440000	1 454 460	0000	200704-12702	004447007	: .	10 10	Dovi Technologica Corporation
	MEDIA ASSET RECOMMENDATION SERVICE	Royi Technologies Corporation	05/19/2024	03/27/2007	7 197 759	11/14/2002	20020170057	05/14/2001	_		Roy Technologies Corporation
	DYNAMIC SELF-CONFIGURATION FOR AD HOC PEER NETWORKING	Rovi Technologies Corporation	01/07/2033	10/04/2016	9,460,092	12/16/2010	20100318919	06/16/2009	-	Us	Royl Technologies Corporation
	AND CHARLES IN THE CANADADATION OF CHARLES AND CHARLES AND CHARLES	Rovi Technologies Corporation	06/11/2021	07/07/2009	7,558,846	10/27/2005	20050240665	03/02/2005	and 11/071,700	ussi su	Rovi Technologies Corporation
	MAIL BASED TEMBLATEL ANGLIAGE EOD DENOGRA AND SERVICES	Rovi Technologies Corporation	03/07/2022	10/14/2008	7,437,434	05/05/2005	20050097503	11/04/2004	aed 10/981,057	US Issu	Rovi Technologies Corporation
	XMIBASED TEMPLATE LANGUAGE FOR DEVICES AND SERVICES	Rovi Technologies Corporation	06/08/2023	10/21/2008	7,441,019	04/07/2005	20050074018	11/04/2004	10/981,030	US Issu	Rovi Technologies Corporation
	DYNAMIC SELF-CONFIGURATION FOR AD HOC PEER NETWORKING	Rovi Technologies Corporation	02/01/2020	02/03/2009	7,487,230	12/23/2004	20040260800	05/03/2004	led 10/838,769	US Issued	Row Technologies Corporation
	XML-BASED LANGUAGE DESCRIPTION FOR CONTROLLED DEVICES	Ravi Technologies Corporation	11/03/2020	10/31/2006	7,130,895	03/21/2002	20020035621	03/16/2001	Jed 09/611,236	USSI	Rovi Technologies Corporation
	DATA DRIVEN REMOTE DEVICE CONTROL MODEL WITH GENERAL PROGRAMMING INTERFACE-TO-NETWORK MESSAGING ADAPTER	Rovi Technologies Corporation	05/22/2022	08/01/2008	7,085,814			11/02/2000	JB0 U9//U6,446	US	Row Teannalogies Corporation
	AUTOMATIC DELIVERY OF PERSONALIZED CONTENT TO A PORTABLE MEDIA PLAYER WITH FEEDBACK	Kovi lecimologies Corporation	11/01/2020	0102/02/10	7,000,701	08/20/2007	20072777002	03/15/2000	_	Oo Issued	Now Technologies Corporation
	SCHEDULING THE RECORDING OF TELEVISION PROGRAMS	Doni Tankania gian Camaratian	44 004 0000	0400000	7.052.764	00000000	2007020060	2000		_	Doy. Tachanalagian Corporation
	TELEVISION PROGRAM PAUSE FOR INTERACTIVE SESSIONS	Royi Technologies Corporation	11/16/2019	12/04/2007	7 305 692	09/08/2005	20050196139	04/27/2005	and 11/115719	US I	Royi Technologies Corporation
	SCHEDULING THE RECORDING OF TELEMISION PROGRAMS	Technologies	07/06/2003	03/00/2010	7 676 138	Anne/sen/on	200000000000000000000000000000000000000	2000/20/20	11/11/4 676	0	Cornor .
	SCHEDULING THE RECORDING OF TELEVISION PROGRAMS	Rovi Technologies Corporation	12/13/2022	02/08/2011	7,885,517	09/08/2005	20050196136	04/27/2005	aed 11/115,669	US ISSU	Row Technologies Corporation
		Rovi Technologies Corporation	11/16/2019	01/02/2007	7,159,232			11/16/1999	and 09/441,708	US Issu	Rovi Technologies Corporation
	SASTEN WITH THE PART OF THE ARMADIS OF THE ARMADIS TO SANTENT BENJEDGO WE SANT SANTENT SAND INCIDENCE.	Rovi Technologies Corporation	05/27/2024	10/05/2010	7,809,813	01/01/2004	20040003032	06/28/2002	aed 10/184,438	US Issued	Rovi Technologies Corporation
		Rovi Technologies Corporation	04/27/2020	04/21/2009	7,523,478	07/28/2005	20050166247	03/18/2005	and 11/083,413	US Issu	Rovi Technologies Corporation
		Rovi Technologies Corporation	06/01/2022	03/17/2009	7,506,352	07/28/2005	20050166248	03/18/2005	led 11/083,407	US Issued	Row Technologies Corporation
RE	USER INTERFACE FOR INTERACTIVE TELEVISION SYSTEMS	Rovi Technologies Corporation	04/27/2020	10/19/2010	7,818,768	07/02/2009	20090172739	03/11/2009	12/402,221	US Issu	Rovi Technologies Corporation
E		Rovi Technologies Corporation	04/27/2020	02/19/2008	7,334,250	10/27/2005	20050240982	06/30/2005	aed 11/171,747	US Issued	Rovi Technologies Corporation
L	USER INTERFACE FOR INTERACTIVE TELEVISION SYSTEMS	Rovi Technologies Corporation	04/27/2020	12/04/2007	7,305,693	07/28/2005	20050166256	03/1 8/2005	ıed 11/083,722	US Issu	Rovi Technologies Corporation
:	USER INTERFACE FOR INTERACTIVE TELEVISION SYSTEMS	Rovi Technologies Corporation	04/27/2020	06/26/2007	7,237,253			04/27/2000	aed 09/560,666	US Issu	Rovi Technologies Corporation
0:	PHONE-TO-MONITOR CONNECTION DEVICE	Ravi Technologies Corporation	04/21/2028	11/16/2010	7,835,505	11/16/2006	20060259942	05/13/2005	led 11/129,675	ussi sū	Rovi Technologies Corporation
I 53	GRAPHICAL TILE-BASED EXPANSION CELL OUIDE	Rovi Technologies Corporation	04/02/2028	11/23/2010	7,840,979	02/21/2008	20080046928	06/30/2006	aed 11/821,631	US Issued	Rovi Technologies Corporation
P/ 34	CUSTOMIZING VIRTUAL CHANNELS IN A DISCOVERY INTERFACE	Ravi Technologies Corporation	03/27/2027	09/06/2011	8,015,580	01/24/2008	20080022310	06/30/2006	and 11/479,638	US ISSU	Ravi Technologies Corporation
<b>\</b> ⁻ 58	USING A FIRST DEVICE TO ENGAGE IN A DIGITAL RIGHTS MANAGEMENT TRANSACTION ON BEHALF OF A SECOND DEVICE	Rovi Technologies Corporation	07/04/2025	01/04/2011	7,865,964	05/31/2007	20070124809	01/17/2007	11/624,029	US Issu	Rovi Technologies Corporation
ΓE 3	USING A FIRST DEVICE TO ENGAGE IN A DIGITAL RIGHTS MANAGEMENT TRANSACTION ON BEHALF OF A SECOND DEVICE	Ravi Technologies Corporation	04/29/2025	02/27/2007	7,185,363			10/04/2002	aed 10/265,437	US Issued	Rovi Technologies Corporation
: F		Ravi Technologies Corporation	04/28/2020	01/13/2004	6,678,737			04/28/2000	led 09/560,978	US Issu	Rovi Technologies Corporation
IT R/	DETERMINING USER INTEREST BASED ON GUIDE NANGATION	Ravi Technologies Corporation	12/18/2027	02/01/2011	7,882,522	05/29/2008	20080127262	11/29/2006	ıed 11/564,721	US Issu	Ravi Technologies Corporation
•	ELECTRONIC PROGRAMMING GUIDE (EPG) AFFINITY GLUSTERS	Rovi Technologies Corporation	04/07/2031	12/01/2015	9,204,200	06/28/2012	20120167141	12/23/2010	led 12/978,100	US ISSU	Rovi Technologies Corporation
<b>/</b> 11	DYNAMIC PERSONALIZED PROGRAM CONTENT	Ravi Technologies Corporation	12/15/2031	05/08/2018	9,967,621	06/20/2013	20130160051	12/15/2011	aed 13/326,960	US Issu	Rovi Technologies Corporation
<b>=</b> :	DATA COLLECTION FOR A COMPREHENSIVE PROGRAM GUIDE	Ravi Technologies Corporation	06/14/2029	02/01/2011	7,882,525	10/23/2008	20080263583	04/23/2007	Jed 11/789,021	US Issued	Rovi Technologies Corporation
0		Ravi Technologies Corporation	11/05/2027	03/08/2011	7,904,930	04/20/2006	20060085829	10/14/2004	10/965,501	US Issu	Ravi Technologies Corporation
8		Rovi Technologies Corporation	05/31/2027	03/08/2011	7,904,933	05/19/2005	20050108772	11/19/2003	led 10/716,998	US ISSU	Rovi Technologies Corporation
2 <i>*</i>	ADJUSTMENT OF CLOCK APPROXIMATIONS	Ravi Technologies Corporation	04/27/2030	06/28/2011	7,969,891	10/30/2008	20080270800	04/24/2007	aed 11/789,156	US Issued	Rovi Technologies Corporation
	QUERY-BASED ELECTRONIC PROGRAM QUIDE	Rovi Technologies Corporation	05/04/2021	11/01/2011	8,051,450	12/15/2005	20050278741	10/16/2003		US Issued	Rovi Technologies Corporation

10   10   10   10   10   10   10   10	INDEO ON DEMAND	بابا	10/24/2020	06/03/2008	,383,564	10/04/2001	20010027561	05/29/2001	Issued 09	V1 V
1.	ERED CODING AND DECODING OF IMAGE DATA	nologies Corporation nologies Corporation	12/10/2019	03/28/2006	,020,195	01/12/2006	20060010478	12/10/1999	Issued	Rovi Technologies Corporation  Rovi Technologies Corporation
10   10   10   10   10   10   10   10	CROINATION OF CLENT-DRIVEN MEDIA STREAMING FROM A CLUSTER OF NON-COOPERATING PEERS IN A PEER-TO-PEER NETWORK		03/16/2025	05/26/2009	,539,767	06/07/2007	20070130361	02/05/2007	Issued	Rovi Technologies Corporation
1.00   10.00	SEIVER DRIVEN STREAMING IN A PEER-TO-PEER NETWORK	ologies Corporation	03/25/2025	07/06/2010	752,327	06/07/2007	20070130360	02/05/2007	Issued 1	Rovi Technologies Corporation
	STEM AND METHOD FOR RECEIVER-DRIVEN STREAMING IN A PEER-TO-PEER NETWORK	logies Corporation	11/07/2024	02/06/2007	,174,385	04/13/2006	20060080454	09/28/2004	Issued 1	Rovi Technologies Corporation
10	STEM AND METHOD FOR DISTRIBUTED STREAMING OF SCALABLE MEDIA	nologies Corporation	04/08/2028	02/16/2010	,664,109	03/09/2006	20060053209	09/03/2004	Issued 1	Rovi Technologies Corporation
19   19   19   19   19   19   19   19	JAN FLANKEN. JAN FLANKEN. JAN FLANKEN.	ation	04/08/2030	07/10/2012	1,219,927		20100175023	01/06/2009	Issued 1	Rovi Technologies Corporation
He   Note   11/23/74   20/2002   20/20020   20/20020   21/23/2   20/20020   21/23/2   20/20020   20/20020   20/20020   20/20020   21/23/2   20/20020   21/23/2   20/20020   20/20020   20/20020   20/20020   21/23/2   20/20020   21/23/2   20/20020   20/20020   20/20020   20/20020   21/23/2   20/20020   21/23/2   20/20020   20/20020   20/20020   20/20020   21/23/2   20/20020   21/23/2   20/20020   20/20020   20/20020   20/20020   21/23/2   20/20020   21/23/2   20/20020   20/20020   20/20020   20/20020   21/23/2   20/20020   21/23/2   20/20020   20/20020   20/20020   20/20020   21/23/2   20/20020   21/23/2   20/20020   20/20020   21/23/2   20/20020   21/23/2   20/20020   21/23/2   20/20020   21/20020   21/23/2   20/2	PARATUS FOR	Corporation	06/01/2026	08/16/2011	,001,567	10/14/2004	20040203639	05/02/2002	Issued	
18	THOD AND APPARATUS FOR SELECTING AMONG MULTIPLE TUNERS	Corporation				06/21/2018	20180176626	12/22/2017	Pending 1	Rovi Technologies Corporation
UB	THOD AND APPARATUS FOR SELECTING AMONG MULTIPLE TUNERS	-	01/04/2022	12/26/2017	.854,293	08/27/2015	20150245089	05/11/2015	Issued	Rovi Technologies Corporation
UB	THOD AND APPARATUS FOR SELECTING AMONG MULTIPLE TUNERS	nologies Corporation	01/04/2022	01/06/2015	928,819		20130014201	09/12/2012	Issued	ologies
US		annologies Corporation	01/04/2022	07/14/2015	.084.007	┸	20100205646	04/14/2010	ssued	Royi Technologies Corporation
UB		3	0202/12/20	04/20/2007	701 516	1007/2000	20000010010	200C/05/2011	ing Isouau	Roy Technologies Corporation
UB	THOD AND APPARATUS FOR SELECTING AMONG MULTIPLE TUNERS	2	000000000000000000000000000000000000000	00024/2000	1,087,804	on or other or	2002012002	01/04/2002	Sound	Roy Technologies Corporation
UB	70	oretion !	08/40/202	05/24/2005	807 904	07/10/2003	20020001232	04/04/2000	Inguistra de	Roy Technologies Corporation
US Based (17,227,718		Technologies Cornoration	04/04/2001	04/07/2009	516.466	04/14/2005	20050084253	11/04/0004	Politica 1	Sim a
US		Technologies Corporation	04/04/2001	000000000	287 748	11/18/2004	20040230004	PUUC/9 L/9U	Inc. Inc.	Roy Technologies Corporation
US         bound         11/22/78         Qui 5/2008         2000/2008         0.7,80,375         2000/2008         12/22/22/22         Row Technologies Corporation           US         bound         11/48/261         05/15/200         2000/2008         0.7,80,375         2000/2009         12/22/22/2         Row Technologies Corporation           US         bound         11/24/261         05/15/201         2000/2009         200		Technologies Compretion	0000000	10000000	772 428			00000000	100	Doy Technologies Corporation
US bound 11/42/27/8	SORAM SELECTION MECHANISM GOVERNED BY RATE OF PROGRAM CONSUMPTION	4	04/30/30	0.0000000000000000000000000000000000000	7/0 180			0000000	100	Sib s
US Issued 11227.718	EVISION AND MULTIMEDIA VIEWING PARADIGM	Technologies Corporation	0000/10/01	9005/90/10	475.417	2002/80/80	20050198689	04/19/2005	Supp	Royi Technologies Corporation
US Issued 11223718	THODS AND ARRANGEMENTS FOR PROVIDING A NOVEL TELEVISION AND MULTIMEDIA VIEWING PARADIGM	nologies Corporation	04/2/1/2020	08/15/2006	093 273	<u> </u>	20050185933	04/19/2005	is in a	Royi Technologies Corporation
US Staud 11/23/15 06/15/2015 200012/2015 00/15/2015 01/2010 1/2/2/2 Qualifold 1/2/2/	AL-BAND MODEM AND SERVICE	nologies Compretton	04.751.750.50	08/46/2005	024 657	989800	20040210000	0.000712000	leg legal	Roy Technologies Corporation
US Issued 11/23/718 06/15/2015 2000/20085 01/30/2009 7.34/3.78 04/3/2009 12/27/22/7 Rovi Technologies Corporation  US Issued 11/24/3/81 05/15/2012 2000/20040 02/20/2009 02/27/2012 Rovi Technologies Corporation  US Issued 11/24/3/81 05/15/2012 2000/20040 02/20/2009 02/27/2012 Rovi Technologies Corporation  US Issued 11/24/3/81 07/12/2012 2000/20040 02/20/2012 02/20/20/2012 02/20/20/2012 02/20/20/2012 02/20/20/2012 02/20/2012 0	SIA STREAM SYNCHRONIZATION	allon N	03/31/2024	9002/80/80	.088.//4	in the same same same same same same same sam	20040242204	04/26/2002	Ssued	Roy Technologies Corporation
US Issued 11/12/27/16	ER-CONTROLLED ROUTING OF PHONE CALLS TO VOICEMAIL	auon	04/18/2031	71020277	1,340,040	0012472010	20100100000	2002/4/2000	ISSUBO	
US Issued 11/22/718	SORDED CONTENT MANAGEMENT	90	2 1100	400000000000000000000000000000000000000	,dee,oo	000000000000000000000000000000000000000	20000241124	00100000	L Supu	To the lattice Compared
US Issued 11/227/18 00/19/2005 20000020065 01/20/2007 7.544,375 00/00/2006 12/20/202 Row Technologies Corporation US Issued 10/227/19 02/22/2020 20000020065 01/20/202 20/20/2020 20/20/20/2020 20/20/2020 20/20/2020 20/20/2020 20/20/2020 20/20/2020 20/20/2020 20/20/2020 20/20/2020 20/20/2020 20/20/2020 20/20/2020 20/20/2020 20/20/2020 20/20/2020 20/20/2020 20/20/2020 20/20/20/20/20/20/20/20/20/20/20/20/20/2	SORDED CONTENT MANAGEMENT	Technologies Corporation	200200000	SUDZITUKU	,394,967	0000	20000017701	200727720D	Issued	Roy Technologies Corporation
US Issued 11/227/18 06/16/2002 2000002046 07/24/251 04/44/2008 12/27/222 Revi Technologies Corporation US Issued 11/24/261 05/16/2002 2000002046 05/24/251 05/24/251 04/44/2008 12/27/2022 Revi Technologies Corporation US Issued 11/24/261 05/16/24/251 05/24/24/251 05		Corporation	04/01/2028	08/08/2011	,996,459	03/06/2008	20080059646	U8/31/2006	Issued	Row Technologies Corporation
US Issued 11/22/7/8 06/16/2002 20000/2006 07/24/258 06/10/2002 7/256/273 04/14/2008 12/27/22/2 Row Technologies Corporation US Issued 11/24/26/8 12/27/27/8 05/22/22/2 Row Technologies Corporation US Issued 11/24/26/8 12/27/27/8 05/22/20/2 20040/24/2 05/27/27/2 05/27/27/2 04/14/2008 12/27/27/2 Row Technologies Corporation US Issued 11/24/26/8 12/27/27/8 05/22/27/2 05/27/27/2 04/14/20/2 05/27/27/2 Row Technologies Corporation US Issued 11/24/26/8 12/27/27/8 05/22/27/2 05/27/27/2 05/27/27/2 Row Technologies Corporation US Issued 11/24/26/8 12/27/27/2 05/27/27/2 05/27/27/2 05/27/27/2 Row Technologies Corporation US Issued 11/24/26/8 05/27/27/2 05/27/27/2 05/27/27/2 05/27/27/2 Row Technologies Corporation US Issued 11/24/26/8 05/27/27/2 05/27/27/2 05/27/27/2 05/27/27/2 Row Technologies Corporation US Issued 11/24/26/8 05/27/27/2 05/27/27/2 05/27/27/2 05/27/27/2 Row Technologies Corporation US Issued 11/24/26/8 05/27/27/2 05/27/27/2 05/27/27/2 05/27/27/2 Row Technologies Corporation US Issued 11/24/26/8 05/27/27/2 05/27/27/2 05/27/27/2 05/27/27/2 Row Technologies Corporation US Issued 11/24/26/8 05/27/27/2 05/27/27/2 05/27/27/2 05/27/27/2 Row Technologies Corporation US Issued 11/24/26/8 05/27/27/2 05/27/27/2 05/27/27/2 05/27/27/2 05/27/27/2 Row Technologies Corporation US Issued 11/24/27/2 05/27/27/2 05/27/27/2 05/27/27/2 05/27/27/2 05/27/27/2 05/27/27/2 Row Technologies Corporation US Issued 11/24/27/2 05/27/27/2 05/27/27/2 05/27/27/2 05/27/27/2 05/27/27/2 Row Technologies Corporation US Issued 11/24/27/2 05/27/27/2 05/27/27/2 05/27/27/2 05/27/27/2 Row Technologies Corporation US Issued 11/24/27/2 05/27/27/2 05/27/27/2 05/27/27/2 Row Technologies Corporation US Issued 11/24/27/2 05/27/27/2 05/27/27/2 05/27/27/2 Row Technologies Corporation US Issued 11/24/27/2 05/27/27/2 05/27/27/2 05/27/27/2 Row Technologies Corporation US Issued 11/24/27/2 05/27/27/2 05/27/27/2 05/27/27/2 Row Technologies Corporation US Issued 11/24/27/2 05/27/27/2 05/27/27/2 Row Technologies Corporation US Issued 11/24/27/2 05/27/27/2 05/27/27/2	THOD AND APPARATUS FOR SYNCHRONIZING AUDIO AND VIDEO DATA	ologies Corporation N	07/02/2022	12/02/2008	,460,173	10/27/2005	20050238059	06/30/2005	Issued	Rovi Technologies Corporation
US Issued 11/227/18 00/19/2005 20000/2006 07/20/2009 7/24/25 00/19/2009 12/27/2012 Raw Technologies Corporation  US Issued 11/14/24/261 05/19/2007 2077/21/4281 02/20/2009 7/24/25 02/20/2009 12/27/2012 Raw Technologies Corporation  US Issued 10/227/15 05/23/2002 20/20/20/2004 8/25/2013 02/20/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2014 02/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/20/2013 02/20/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2014/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/2014/20/2013 02/20/2013 02/20/2013 02/20/2013 02/20/20/2014/20/2013 02/20/20/20/20/20/20/20/20/20/20/20/20/2	THOD AND APPARATUS FOR SYNCHRONIZING AUDIO AND VIDEO DATA	diogram Corporation	0010000	001122000	,200,020	112000	200000000000000000000000000000000000000	11000	as contract	Novi recilitorigies Corporation
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US Issued 11/227.718 001/92006 2000020066 01/20007 7,546.375 000002006 12/207221 Gruit Technologies Corporation  US Issued 11/140.011 051/92007 20070214281 061/20007 7,516.723 04142008 12/20022 12/20022 Revi Technologies Corporation  US Issued 10/227.715 05/23/2002 2004004004 02/20020  5,527.043 02/202013 05/13/2024 Revi Technologies Corporation  US Issued 10/227.715 05/23/2002 2004004004 02/20/2004  5,937.043 02/20/2013 05/13/2024 Revi Technologies Corporation  US Issued 10/247.010 02/20/2002 00/22/2007 02/20/2013 05/20/2	TWARE-BASED AUDIO RENDERING	logies Corporation	04/04/2027	04/14/2009	,519,845		20060146185	01/05/2005	Issued 1	Rovi Technologies Corporation
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US         Issued         11/227/18         06/15/2005         20000020686         07/28/2009         7/24/2019         04/14/2009         12/27/2021         Row Technologies Corporation           US         Issued         11/74/2011         05/15/2012         20000020465         05/12/2017         7/15/202         04/14/2009         12/27/2021         Row Technologies Corporation           US         Issued         11/27/2017         05/15/2012         05/27/2012 <td< td=""><td>THOD AND APPARATUS FOR STORING CONTENT</td><td>nnologies Corporation A</td><td>06/28/2021</td><td>09/18/2007</td><td>,272,300</td><td>06/30/2005</td><td>20050141886</td><td>02/01/2005</td><td>Issued 11</td><td>Rovi Technologies Corporation</td></td<>	THOD AND APPARATUS FOR STORING CONTENT	nnologies Corporation A	06/28/2021	09/18/2007	,272,300	06/30/2005	20050141886	02/01/2005	Issued 11	Rovi Technologies Corporation
US         Issued         11/277/18         06/15/2005         2000002066         01/28/2009         7,546,375         04/08/2009         12/27/2021         Row Technologies Corporation           US         Issued         11/745,091         05/15/2017         200172/4281         05/13/2027         7,516,723         04/14/2009         12/27/2021         Row Technologies Corporation           US         Issued         11/27/2017         05/13/2012         2004/04/04         02/26/2014         0.357,983         02/26/2013         03/13/2028         Row Technologies Corporation           US         Issued         11/27/2017         05/13/2013         20/26/2014         03/	THOD AND APPARATUS FOR STORING CONTENT	nalagies Corparation	05/05/2024	08/21/2007	,260,312	09/05/2002	20020124099	06/28/2001	Issued	Ravi Technologies Corporation
US Issued 11/227/18	SIA RECOMMENDATIONS BASED ON NEGATIVE FEEDBACK	nologies Corporation	08/23/2022	12/31/2013	,621,518		20130174188	01/31/2013	Issued	
US Issued 11/227/18	XIA RECOMMENDATIONS BASED ON NEGATIVE FEEDBACK	Technologies Corporation	03/13/2026	02/26/2013	,387,093		20040040040	08/23/2002	Issued	l ğ
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		Technologies Corporation	12/2//2021	6002/60/90	,546,375	01/26/2006	20060020695	0002/4 1/80	Issued 1	Rovi Technologies Corporation
Technologies Carporation US Issued Tubusy 310 Tubusy 2000 Tubusy 2	DISTRIBUTING NETWORK APPLICATIONS	Technologies Corporation	07702024	08/14/2007	,25/,638	00/20/2003	20050120782	1202005	ISSUBO 1	Roy Technologies Corporation

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EXHEDULING SCHEME FOR DISTRIBUTED SENDING OF MEDIA DATA	Rovi Technologies Corporation SCHEDU	05/09/2027	06/09/2009	7,545,812	04/14/2005	20050078680	03/12/2004	US Issued 10/798,993	Rovi Technologies Corporation
RIORITY MECHANISM FOR DISTRIBUTED SENDING OF MEDIA DATA	Rovi Technologies Corporation PRIORIT	08/03/2026	10/28/2008	7,443,791	04/14/2005	20050081246	03/12/2004	US Issued 10/800,287	Rovi Technologies Corporation
EINETATING AND SEARCHING COUPRESSED DATA	Ravi Technologies Corporation GENERA	01/31/2022	12/18/2006	7,151,471	05/04/2006	105 20060082052	12/16/2005	US Issued 11/303,797	Rovi Technologies Corporation
enefating and searching compressed data	Rovi Technologies Corporation GENERA	01/31/2022	12/12/2006	7,148,823	05/04/2006	005 20060092055	12/16/2005	US Issued 11/303,798	Rovi Technologies Corporation
GENERATINO AND SEARCHING COMPRESSED DATA		01/31/2022	04/11/2006	7,026,964	10/06/2005	2.1	03/1 7/20	Issued	Rovi Technologies Corporation
ENERATING AND SEARCHING COMPRESSED DATA	Rovi Technologies Corporation GENERA	01/31/2022	08/30/2005	5,937,171	07/14/2005	05 20050155059	02/03/2005	US Issued 11/050,128	Rovi Technologies Corporation
SENERATING AND SEARCHING COMPRESSED DATA	L	10/10/2023	ennzrizian	0,908,384	87/31/2003	_ N	01/31/2002	ISSUBO	Roy Leannalogies Corporation
SYNCHRONDATION OF CONTROLLED DENDE STATE USING STATE TABLE AND EXPETING IN DATA-DRIVEN REMOTE DENDE COVITROL MODEL	Rovi Technologies Corporation SYNCHR	06/06/2020	08/08/2006	7,089,307	01/27/2005		03/05/2004	US Issued 10/794,515	Rovi Technologies Corporation
SYND-ROWIZATION OF CONTROLLED DEVICE STATE USING STATE TABLE AND EVENTING IN DATADRIVEN REMOTE DEVICE CONTROL MODEL		BLDZZZDZLL	04/20/2004	a,725,281 C1		388	11/02/11	US ISSUED 08/432,853	Rovi Leannologies Corporation
ALTO CONFIGURNIA OF PERIPHERAL ON HOSTPERIPHERAL COMPUTING PLATFORM WITH PEER NETWORNING TO HOSTPERIPHERAL ADAPTER FOR PEER NETWORNING CONNECTIVITY	Sucri	1102/2019	00/1/2004	0,718,004		2000	2711 0120	la de la dela de	Town learning less corporation
YNAMIC SELF-CONFIGURATION FOR AD HOC PEER NETWORKING	Distroi	1 0 0 0 N	0100000	7,008,700	20202020	200000001404		Sound	Port Technologies Corporation
MILBASED TEMPIATE LANGUAGE FOR DENDES AND SERVICES	Composition	00/41/2002	0/13/2000	7 603 756	ADDECACION		JC/C U/s.U	100	Soud Technologies Corporation
YNAMIO SELF-CONFIGURATION FOR AD HOC PEEN NETWORKING USING MARK-UP LANGUAGE FORMATED DESCRIPTION MESSAGES	_	05/22/2022	06/21/2005	3.910.068	03/07/2002	001 20020029256	03/16/2001	Issued DB	Royi Technologies Corporation
COMERNIUS REALITIME AND DELICIONAL AUDIERSS LINKS	Rovi Technologies Corporation	02/01/2020	05/10/2005	3,892,230		000	02/01/2000	US Issued 09/496,318	Rovi Technologies Corporation
	Rovi Technologies Corporation	07/15/2020	01/24/2006	3,990,678	10/25/2001	2001 20010034883	02/20/20	US Issued 09/788,985	Rovi Technologies Corporation
NAMES AND METRIC TO DEFEND THE REPORT OF THE PARTY OF THE	Ravi Technologies Corporation	06/15/2020	12/07/2010	7,849,226	05/05/2005	V2004 20050097622	12/02/20	US Issued 11/004,088	Rovi Technologies Corporation
TRIENING CONTENT USING BRICH MODE AND REAL-TIME LOGICAL ADDRESSES	Rovi Technologies Corporation RETRIEV	11/03/2022	06/02/2009	7,543,323		102	04/26/2002	US Issued 10/133,554	Rovi Technologies Corporation
DONTEXTUAL SEARCHBY A MOBILE COMMUNICATIONS DEVICE	Rovi Technologies Corporation CONTEX	04/30/2029	10/27/2015	9,172,789	01/22/2015	20150026157	07/23/20	US Issued 14/339,186	Rovi Technologies Corporation
DONTEXTUAL SEARCH BY A MOBILE COMMUNICATIONS DEVIDE	Ravi Technologies Corporation CONTEX	07/11/2029	09/02/2014	8,825,699	04/29/2010	20100105370	04/3 0/2009	US Issued 12/433,605	Rovi Technologies Corporation
ML SCHEMA FOR NETWORK DEVICE CONFIGURATION	XML SCI-	02/10/2027	0.0202020	7,007,012	avavzana	2004 20000 148020	12/02/01	usued Insue, 33	ZON I BONDONES Corporation
SYSTEM AND METHOD FOR PROVIDING SECURE NETWORK ACCESS	actinologies Colporation	120212021	01026000	7,700,000	070072000	N N	11/30/2004	5000	. Gas
RECOMMENDATION SYSTEM WITH METRIC TRANSFORMATION	Communication Companies			0,404,000	0.000	٠,		- Indicated	To all the state of the state o
RECOMMENDATION SYSTEM WITH METRIC TRANSFORMATION	Technologies Corporation	75 UC/80/10	00/27/2016	A#4 #80	07/4//2016		ALUCIS U/CU	Inglied.	Sip s
NUGGABLE INTERACTIVE TELEVISION	Technologies Corporation	07/28/2034	02/09/2016	256 693	07/09/2015	_	01/08/20	Ssupp	Royl Technologies Corporation
EXOGNATE INTERVEDINE	4.					_	11/23/2015	Pending	Rovi Technologies Corporation
TO CONTROL OF THE PROPERTY OF	Ravi Technologies Corporation	09/12/2028	11/24/2015	9,197,928	02/13/2014	113 20140047484	10/18/2013	US Issued 14/057,764	Rovi Technologies Corporation
FINTERACTIVE THI DISION	Ravi Technologies Corporation	07/28/2030	10/22/2013	3,566,869	03/04/2010	08 20100053435	09/02/2008	US Issued 12/202,562	Rayl Technologies Corporation
ETA APPLIANCE	Rovi Technologies Corporation MEDIA A					118	09/13/2019	US Pending 16/570,188	Rovi Technologies Corporation
HEDA APPLANCE	Rovi Technologies Corporation MEDIA A	04/05/2031	10/22/2019	10,454,862	07/30/2015	20150215250	04/02/2015	US Issued 14/677,569	Ravi Technologies Corporation
EDIA APPILANDE	Ravi Technologies Corporation MEDIA A	08/02/2032	04/07/2015	8,998,720	10/06/2011	20110244955	07/26/2010	US Issued 12/843,293	Rovi Technologies Corporation
NAPTIVE RECOMBENDATION SYSTEM	Ravi Technologies Corporation ADAPTIV	02/27/2034	12/08/2015	9,208,155	03/14/2013	20130066819	05/80/80	US Issued 13/229,482	Ravi Technologies Corporation
BAULATED TELEVISION TUNER	Rovi Technologies Corporation EMULATI				11/15/2018	118 20180332358	05/07/2018	US   Pending   15/872,945	Rovi Technologies Corporation
SMULATED TELEVISION TUNER VIA EXECUTION OF SOFTWARE BY A COMPUTING DEVICE	Rovi Technologies Corporation EMULATI	06/30/2032	05/08/2018	9,967,632	09/08/2011	20110219412	03/08/2010	US Issued 12/719,813	Ravi Technologies Corporation
RECOMMENDATION RANKING SYSTEM WITH DISTRUST	Ravi Technologies Corporation RECOMN	10/03/2033	10/06/2015	9,152,969	10/13/2011	20110252121	04/07/2010	US Issued 12/755,791	Rovi Technologies Corporation
OCATION-BASED DISPLAY CHARACTERISTICS IN A USER INTERFACE	_	07/16/2029	12/28/2015	9,223,412	04/03/2014	-	12/05/2013	Issued	Rovi Technologies Corporation
OCATION-BASED DISPLAY CHARACTERISTICS IN A USER INTERFACE	lechnologies Corporation	07/16/2029	01/21/2014	5,634,876	04/29/2010		04/30/2006	Issued	ogies
SPLICATION TUVE MANIFESTS AND TUVE STATE RECOVERY	Rovi Technologies Corporation APPLICA				05/10/2018		12/21/2017	Pending	Row Technologies Corporation
SPLICATION TUNE MANIFESTS AND TUNE STATE RECOVERY		03/02/2029	12/26/2017	9,852,776	10/15/2015	N.	06/02/2015	Issued	Row Leannalogies Corporation
OPUICATION TUNE MANIFESTS AND TUNE STATE RECOVERY		09/06/2031	06/30/2015	3,069,585			03/02/20	Issued	Rovi Technologies Corporation
EDUCING UNICAST SESSION DURATION WITH RESTART TV	Royi Lechnologies Corporation REDUCIN	02/28/2030	08/28/2018	10,063,834	05/2//2010	20100131995	11/25/2008	US Issued 12/277,797	Row Leannalogies Corporation
TRIGGERLESS NITERACTIVE TELEVISION	ation	10/31/2029	11/06/2012	5,307,403	06/07/2007		12/02/2005	Issued	Rovi Technologies Corporation
VEDIA CONTENT SEARCH RESULTS RANKED BY POPULARITY	logies Corporation					_	07/17/2019	Pending	Row Leannalogies Corporation
JEDM CONTENT SEARCH RESULTS RAMKED BY POPULARTY					07/19/2018	20180206002	03/16/2018	Pending	
JEDIA CONTENT SEARCH RESULTS RANKED BY POPULARITY	MEDIA C	COLOGIZOZI	040172010	0,640,66	ooroorzo	20170104004	828	OG ISSORA ISIGITA, IZB	Novi Technologies Colpustion
JEDIA CONTENT SEARCH RESULTS RANNED BY POPULARITY	N	03/03/2027	0.0245017	4,004,183	91.07/87/80	1 N	a.nz.anian	SSUBG	Row Lechnologies Corporation
WEDIA CONTENT SEARCH RESULTS RANKED BY POPULARITY	Technologies Corporation	03/09/2027	04/26/2016	9,326,025	10/24/2013		DEVT 11/20	Issued	ogles
KEDIA CONTENT SEARCH RESULTS RAINED BY POPULARITY	Corporation	12/27/2027	07/02/2013	8,478,750	11/25/2010	201	07/29/2010	Issued 1	logies
MEDIA CONTENT SEARCH RESULTS RANKED BY POOLLARITY	Ravi Technologies Corporation MEDIA C	12/27/2027	09/21/2010	7,801,888	08/11/2008	20080222106	03/09/2007	Issued 1	Rovi Technologies Corporation
LERT MECHANION INTERFACE	Rovi Technologies Corporation ALERT N	08/05/2026	10/07/2008	7,433,714	12/30/2004	103 20040266491	06/30/2003	US Issued 10/611,364	Rovi Technologies Corporation
CONTENT ACCESS	nologies Corporation						02/21/2019	Pending	
	ation	12/23/2028	02/21/2017	9,578,363	03/10/2016	015 20160073145	09/11/2015	Issued	
DONTENT ACCESS 👿	Rovi Technologies Corporation CONTEN	12/23/2028	10/13/2015	9,160,971	08/13/2012	N.	05/22/2012	Issued 1	Rovi Technologies Corporation
CONTENT ACCESS	Roy Technologies Corporation CONTEN	11/19/2029	07/31/2012	5,234,668	06/24/2010		12/23/2008	Issued	Roy Technologies Corporation
MEDIA STREAM SPLICER	Technologies Corporation	44.440.0000	08/20/2013	5,514,891	BUDZISUKI	+ -	2002/2008 2002/2008	ISSUBO	Roy Technologies Corporation
	Desi Tanànahada Pamaratan	aconsonos.	21000000	2004	Opportunit		loan spr	legilled 1	Davi Tankanlaying Cornersting

	DETERRING REVERSIE-ENGINEERING DE SOETIMARE SYSTEMS BY RANDOMIZINS THE SITING DE STAGK-BASED DATA	TOWN TOWN TO BUILDING STORY	02/05/2024	04/24/2007	7,210,134			09/06/2002	10/237,515	penssi sn	tovi Technologies Corporation
		Poul Technologies Compretion				L					
		Rovi Technologies Corporation	01/05/2025	05/20/2008	,376,274	3/02/2006	20060048191 0	08/31/2004 20	10/931,612	US Issued	พ่ Technologies Corporation
	SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR UPDATING CONTENT STORED ON A PORTABLE STORAGE MEDIUM	Ravi Technologies Corporation	11/07/2019	03/17/2009	,505,992	8/17/2006	060181965	03/31/2006 20	11/278,402	US Issued	พ Technologies Corporation
	SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR UPDATING CONTENT STORED ON A PORTABLE STORAGE MEDIUM		3					٠.			
		Royi Technologies Corporation	08/18/2021	08/18/2009	577 677	2/16/2004	20040255236	06/25/2004	10/877 644	US Scued	ovi Technoloxies Corporation
	PACESTIA ITAIN OF MEDIA CONTENT	Rovi Technologies Corporation	09/01/2024	06/24/2008	,392,481	2/06/2003	03-0028892 0	07/02/2002 20	10/190,307	US Issued	Technologies Corporation
		Ravi Technologies Corporation	01/18/2020	05/27/2008	7,379,661	8/01/2006	0060117344 0	06/15/2005 20	11/154,092	US Issued	ชท่ Technologies Corporation
	DOS GRATATION OF METON A CONTENT	Rovi Technologies Corporation	01/03/2021	11/18/2008	,454,515	0/10/2005	20050251749 1	05/20/2005 20	11/134,794	Danssi Sn	องi Technologies Corporation
		Rovi Technologies Corporation	05/05/2023	02/13/2007	178,106	36/20/2002	20020078144 0	08/21/2001 20	09/935,756	US Issued	ovi Technologies Corporation
N	SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR A COMMON CROSS PLATFORM FRAMEWORK FOR DEVELOPMENT OF DVD-VIDEO CONTENT INTEGRATED WITH ROM CONTENT	Ravi Technologies Corporation	12/22/2023	03/18/2008	,346,920	7/04/2002	02-0088011	07/02/2001 20	09/898,479	US Issued	Technologies Corporation
	SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR REMOTE UNLOCKING OF LOCAL CONTENT LOCATED ON A CLIENT DEVICE	Novi Technologies Corporation	DZIUNZUZU	0.000	3,028,848			02/07/2000	05/435/247	Solba	editiologies Corporation
	SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR A BUSINESS LAYER COMPONENT IN A MULTIMEDIA SYNCHROMZATION FRAMEWORK		000000	02/04/0002	5500000			000070000	00//00 3/7	IO Province	Tarihan louise Compression
		Ravi Technologies Carparation	01/20/2020	11/25/2008	,458,091			01/20/2000	09/489,601	US Issued	avi Technologies Corporation
		Rovi Technologies Corporation	01/20/2020	03/06/2007	188,193			01/20/2000	09/489,600	US Issued	งฟ Technologies Corporation
	NECHODA AND ARTICLE OF MANUFACTURE FOR MANUAVASCRIPT COMPONENT IN A NITURINE AND AND ARTICLE OF MANUFACTURE FOR MANUAVASCRIPT COMPONENT IN A NITURINE AND A TOTAL OF MANUFACTURE FOR MANUAVASCRIPT COMPONENT IN A NITURINE MANUFACTURE FOR MANUFACTURE FOR MANUAVASCRIPT COMPONENT IN A NITURINE MANUFACTURE FOR MANUFACTURE FOR MANUAVASCRIPT COMPONENT IN A NITURINE MANUFACTURE FOR	Rovi Technologies Corporation	01/20/2020	9002/80/80	3,941,383			01/20/2000	09/488,155	penss  Sn	Technologies Corporation
	CONTROLLING PLAYBACK OF CONTENT STORED ON A PORTABLE STORAGE MEDIUM	Rovi Technologies Corporation	08/16/2020	8002/20/20	,499,938	02/24/2005	20050044481	09/30/2004 20	10/967,033	US Issued	Technologies Corporation
	SOFTWARE ENGINE FOR COMBINING VIDEO OR AUDIO CONTENT WITH PROGRAMMATIC CONTENT	Total Total Grand Con personal	000	1000	, and , and			-			a company of
	METHOD AND SYSTEM FOR DELIVERING PERSONAL MEDIA OVER GABLE TELEVISION	Royi Technologies Corporation	05/09/2022	11/04/2008	448 021			+	09/649 215	Name of the second	Technologies Corporation
	WERTHY FACE WELFOLD AND STOTEM FOR A FELICATION FOR CONCENTRATION FOR CONCENTRATION FOR STOTEM FOR	Rovi Technologies Corporation	04/12/2028	03/05/2013	3,392,954	01/22/2009	0000025045	07/18/2007 20	11/779,806	US Issued	ovi Technologies Corporation
	INSER INTERFACE METHOD AND SYSTEM FOR ADDITION DEPOCRATED WITH COMPONENT ASCRIPTION FOR	Ravi Technologies Corporation	01/23/2027	01/12/2016	1,235,428	2/14/2006	060282787 1	08/23/2006 20	11/509,503	US Issued	Technologies Corporation
	PERSPECTIVE CORRECTION DEVICE FOR PANORAMIC DIGITAL CAMERA	Rovi Technologies Corporation	12/31/2019	08/03/2004	3,771,304			12/31/1999	09/477,037	panssi Sn	ovi Technologies Corporation
	METHOD AND SYSTEM FOR SCENE CHANGE DETECTION	Rovi Technologies Corporation	04/21/2022	annzung	3,995,505			08/28/2000	UB/6 /5,358	US ISSUBO	by Technologies Corporation
	METHOD TO INTEGRATE USER DATA INTO UNCOMPRESSED AUDIO DATA	TOTAL TOTAL DOCUMENT OF THE PARTY OF THE PAR	0012112020	0.00 172.000	,070,200			0002000		labuou	on recimongles emperation
	METHODS FOR ACCESSING RENOTELY LOCATED DEVICES	Don't Hookspale sies Composition	200	0244.0000	200			0.000	2000	Н.	Toolson Company
MODE RESPECTIVELY	RETHOD FOX CREATING DUAL-MODE BODTABLE CO-MEMBY WHITING FACED PACKET DATA WITH AND WITHOUT ENGLATING BUS SECTIONS OF LINE BLOCKS FOR FRIST AND SECTION WODE RESPECTIVELY	Rovi Technologies Corporation	06/15/2022	04/04/2006	,024,497			09/07/2000	09/656,533	US Issued	Technologies Corporation
		Rovi Technologies Corporation	12/15/2019	10/07/2003	3,631,468			12/15/1999	09/464,332	US Issued	Technologies Corporation
G VOLUME DESCRIPTOR	SYSTEM FOR WATERIA PACKET DATA TO SECRET BOOTABLE OPICAL MEDIUM BY WATERIA GAND BOOT MAGE ONTO SECOND TRACK BEFORE WATERIA VOLUME DESCRIPTORS OF	Rovi Technologies Corporation	12/15/2019	07/08/2003	5,591,363			12/15/1999	09/464,325	US Issued	ovi Technologies Corporation
	PILOT SELECTION FOR OFDMA CARRIER TRADIUNG	Rovi Guides, Inc.	09/24/2034	06/07/2016	3,363,677	09/24/2015	20150271832	03/18/2014 20	14/217,616	US Issued	วที่ Guides, Inc.
	OFDMA SUBCHANNEL ASSIGNMENT	Rovi Guides, Inc.	09/25/2034	06/07/2016	3,363,703	8/24/2015	150271699	03/18/2014 20	14/217,615	US Issued	วท์ Guides, Inc.
	TRANSMIT/RECEIVE SMITCH WITH SERIES, DOUBLY-FLOATING DEVICE AND SMITCHED BIAS VOLTAGE	Rovi Guides, Inc.	03/1/2033	08/25/2015	9,117,651	3/2//2014	20140084997	08/25/2012 2/2	13/625,909	US Issued	ovi Guides, Inc.
	PREQUENCY MIXER WITH COMPENSATED DO OFFSET CORRECTION TO REDUCE LINEARTY DEGRADATION	ROVI Guides, Inc.	I D/UG/ZU SZ	102/22/14	5,707,500	L	2014/00/8197	7102/01/80	13/022,014	Sansa	vi Guides, inc.
	DO REMOVAL FROM MULTICAPRIER SIGNALS	Day of the last	000000000000000000000000000000000000000	07/22/2014	767 503	300000	10070457	-	2000	_	Oridan Inc
	DIODE PROTECTION OF CASCODED MIXED-VOLTAGE TRANSISTORS	Royi Guides Inc	03/17/2033	01/20/2015	938 029	3/06/2014	20140064418	08/31/2012	13/600 362	Us	ovi Guides Inc
	DETECTION OF A PACKET TYPE IN A COMMUNICATIONS SYSTEM	Day of the last	000000000000000000000000000000000000000	ASMAN	2012 202	2005/2042			12/400	lo la	
		Rovi Guides, Inc.	03/25/2033	04/14/2015	3,008,195			_	13/346,060	US	ovi Guides, Inc.
	CITATO PIA LIA ANTO PIA CONTROL DE INVALVA CONTROL	Rovi Guides, Inc.	01/19/2033	11/10/2015	9,184,942	07/11/2013	20130177112 0	01/09/2012 20	13/346,055	US Issued	ovi Guides, Inc.
	CYCLIC PREEK AND PRECY IRROR, JOHN FERTINATION	Rovi Guides, Inc.	12/13/2031	08/26/2014	3,817,918	36/13/2013	20130148767 0	12/13/2011 20	13/324,225	US Issued	ฟ Guides, Inc.
	COARSE TIMING ACQUISITION	Rovi Guides, Inc.	01/07/2032	07/08/2014	8,774,330	6/13/2013	130148765 0	12/13/2011 20	13/324,217	US Issued	vi Guides, Inc.
	CARRIER TRACKING WITHOUT PLOTS	Rovi Guides, Inc.	07/14/2034	04/05/2016	3,306,716	0/30/2014	0140321403	07/14/2014 20	14/330,117	US Issued	vi Guides, Inc.
2 F	CARRIER TRACKING WITHOUT PILOTS	Rovi Guides, Inc.	07/30/2032	07/15/2014	3,780,838	5/23/2013	130128822 0	11/18/2011 20	13/299,757	US Issued	ovi Guides, Inc.
FF	CHANNEL ESTIMATION IN A COMMUNICATIONS SYSTEM	Rovi Guides, Inc.	01/16/2033	03/03/2015	5971,463	15/24/2013		11/18/2011 20	13/299,/51	US Issued	ovi Guides, Inc.
Į Į	MULTIMEDIA CLIENTISERVER SYSTEM MITH ADJUSTABLE PACKET SIZE AND METHODS FOR USE THEREWITH	Novi Guides, inc.	0010000	9 0	7,804,117	G G G G G G G G G G G G G G G G G G G		١.	122 86,100	S G	O Guidas, III c.
	MULTIMEDIA SERVER WITH CHANNEL CONTROL AND METHODS FOR USE THEREWITH		08/40/2028	07/10/2014	7 084 177	0/30/2008	080070508	04/30/2011 20	11/700 100	IS Issued	vi Guides Inc
n	MULTIMEDIA CLIENTISERVER SYSTEM, CLIENT MODULE, MULTIMEDIA SERVER, RADIO RECEIVER AND METHODS FOR USE THEREMTH	Royl Guides, Inc.	0.0000000000000000000000000000000000000	07/02/02/02	0,248,027	002/2017	20070104070	2002/80/20	17/001,000	OS ISSUED	ovi Guides, inc.
5:	METHOD AND SYSTEM FOR SEQURE CONTENT DISTRIBUTION	000000000000000000000000000000000000000							100		D Section Co.
P.	METHOD AND SYSTEM FOR TRANSMITTING VIDEO CONTENT WHILE PREVENTING OTHER TRANSMISSIONS IN A CONTENTION-BASED NETWORK	Dovi Guides Inc.	10 10 10 10 10 10 10 10 10 10 10 10 10 1	07000000	,010,076	040000		0.000	100000000000000000000000000000000000000	In the state of	Guides, Inc.
A 5	SYSTEM FOR PROVIDING DATA TO MULTIPLE DEVICES AND METHOD THEREOF		200	1	24000					5 6	O GOOD ST
   	SYSTEM FOR ALLOCATING DATA IN A COMMUNICATIONS SYSTEM AND METHOD THEREOF	Royi Guides Inc	07/26/2024	ADDC/CP/BD	106.715			11/16/2001	08/890 896	120	nd Guides Inc
EI	METHOD AND APPARATUS FOR AFFILIATING A WIRELESS DENCE WITH A WIRELESS LOCAL AREA NETWORK	Rovi Guides. Inc.	09/04/2024	09/29/2009	.596.127			-	09/999.593	US Issued	ovi Guides, Inc.
V R	METHOD AND APPARATUS FOR PROVIDING GRAPHICAL OVERLAYS IN A MULTIMEDIA SYSTEM	Royl Guides, Inc.	02/03/2024	10/08/2012	8 284 739				10/376,400	US Issued	ovi Guides, Inc.
T A	WETHOD AND APPARATUS FOR MULTIWEDIA SYSTEM	Rovi Guides, Inc.	01/27/2024	11/16/2010	7,836,193	1/28/2002	020178278	09/05/2001 20	09/946,912	US Issued	vi Guides, Inc.
M	WETHOD AND APPARATUS OF MULTIPLEXING A PILIPALITY OF CHANNELS IN A MULTIWEDIA SYSTEM	Rovi Guides, Inc.	12/09/2023	08/29/2006	7,088,951	1/28/2002		N	08/864,524	US Issued	vi Guides, Inc.
E		Rovi Guides, Inc.	07/11/2024	04/03/2007	,200,855	08/21/2003	0030156218 0	05/24/2001 20	09/864,602	US Issued	ovi Guides, Inc.
-	WE INJU AND APPARA I US FOR TUDBASEU NE I WARN AWARDS VIA A WAL I WEILIA STOLEM	Rovi Guides, Inc.	04/24/2024	11/10/2009	,617,515			05/24/2001	09/864,476	US Issued	Guides, Inc.
Q:	LETLOD AND ADDROAT IS CODE ID DASCO ACTIVISM. AND COMPANY OF STATEMENTS OF STATEMENTS OF STATEMENTS OF STATEMENTS OF STATEMENTS.	Rovi Guides, Inc.	11/09/2024	11/27/2007	,301,900			05/24/2001	09/864,115	US Issued	ovi Guides, Inc.
82	NOLLWAGONIN SALON BASAS NOLLSAN SALON SA	Rovi Guides, Inc.	02/08/2020	03/28/2005	3,873,877			02/08/2000	09/499,961	Danssi SO	ovi Guides, Inc.
	WEINA DRIGANIZATION FOR DISTRIBUTED SENDING OF MEDIA DATA	Ravi Technologies Corporation	03/04/2025	10/11/2011	3,037,200	3/26/2009	0090083806	12/02/2008 20	12/326,818	US Issued	งที่ Technologies Corporation
L	MEDIA ORGANIZATION FOR DISTRIBUTED SENDING OF MEDIA DATA	Ravi Technologies Corporation	05/04/2026	04/07/2009	7,516,232	04/14/2005	20050081243 0	03/12/2004 20	10/800,309	US Issued	ovi Technologies Corporation

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	A discount of the column of th	TIVo Solutions, Inc.	03/30/2020	01/25/2005	6,847,778			03/30/2000	US Issued 08/539,433	TIVe Solutions, Inc.
ITOMATIC PI AVRACK (NUERHOTO CORRECTION SYSTEM	ALITOMATIC PLAYBACK	TiVo Solutions, Inc.				02/21/2019	20190057720	08/23/2018	US Pending 16/110,629	TiVe Solutions, Inc.
NTOMATIC PLAYBACK OVERSHOOT CORRECTION SYSTEM	AUTOMATIC PLAYBACK	TIVo Solutions, Inc.	03/30/2020	08/28/2018	10,062,408	01/18/2018	20180019001	09/27/2017	US Issued 15/717,405	TIVe Solutions, Inc.
hoof Carrection System	Automatic Playback Overshoot Correction System	TiVo Solutions, Inc.	03/30/2020	10/10/2017	9,786,322	10/27/2016	20160314816	07/05/2016	US Issued 15/202,566	TiVo Solutions, Inc.
hoot Correction System	Automatic Playback Overshoot Correction System	The Solutions, Inc.	02/30/2020	0102/00/70	8,300,330	00/20/2008	20080130203	11/18/2000	BSUBU	Two solutions, inc.
shoot Correction System	Automatic Playback Overshoot Co	TiVe Solutions Inc.	03350000	07/05/04/0	0 200 220	0000	20000126202	44.44.00000	1	TVo Colutions Inc
shoot Correction System	Automatic Playback Overshoot Correction System	TVo Solutions Inc	03/30/20	9000771/00	7 403 015			05/13/0004	ee ind	TVo Solutions Inc
WALTINGTHE PERSONNELLATION STRIEM	MOL HALLON MODILLI PE	TiVo Solutions, Inc.	03/30/2020	02/01/2005	6,850,691			03/30/2000	US Issued 09/539,295	TVo Solutions, Inc.
TO CASE IN THE A CONCERNIA		TIVe Solutions, Inc.				09/06/2018	20180255366	05/08/2018	US Pending 15/974,202	TiVo Solutions, Inc.
NATYDAMOBREJ BERSONALIZATOS KYSTEN	MULTIMEDIA MOBILE PE	TIVo Solutions, Inc.	03/30/2020	05/28/2018	9,986,298	10/15/2009	20090256718	05/12/2009	US Issued 12/464,817	TIVe Solutions, Inc.
WULTIMEDIA MOBILE PERSONALIZATION SYSTEM	MULTIMEDIA MOBILE PE	TiVo Solutions, Inc.	03/30/2020	10/10/2017	9,788,068	12/16/2010	20100319014	08/23/2010	US Issued 12/861,124	TiVo Solutions, Inc.
alization System	Multimedia Mobile Personalization System	Trea Salutions, Inc.	11/0/2/022	04/01/2014	0,002,400	11/03/2000	20000240700	0401202000	Issued	Two solutions, inc.
TERFACE SYSTEM	TELEVISION VIEWER INTERFACE SYSTEM	TWo Solutions Inc	440000	0.100.004.4	0 000 000	44.002.0000	200000346728	044 2000		TiVe Columns Inc
e System	l elevision Viewer Interface System	TiVo Solutions, Inc.	10/07/2022	08/20/2013	8.516.520			05/10/2004	_	TVo Solutions, Inc.
		TIVo Solutions, Inc.	09/08/2020	08/18/2015	9,113,219	11/22/2012	20120284592	07/09/2012	US Issued 13/544,895	TVo Solutions, Inc.
TEREACE SYSTEM	TELEVISION VIEWER INTEREA	TIVo Solutions, Inc.	03/26/2021	06/20/2017	9,686,591	11/01/2012	20120278842	07/09/2012	US Issued 13/544,886	TVo Solutions, Inc.
e System	Television Viewer Interface System	TiVo Solutions, Inc.	06/26/2022	08/18/2015	9,113,218	04/21/2011	20110091182	12/22/2010	US Issued 12/975,936	TiVo Solutions, Inc.
e System	Television Viewer Interface Syste	I I Vo Solutions, Inc.	01/16/2023	07710/2012	8,220,027			06/2/3/2004	US Issued 10/6/5,/56	HVo Solutions, Inc.
e System	Television Viewer Interface Syste	Tree Solutions, mo.	o contract	i i i i i i i i i i i i i i i i i i i	0.00			our our new	induced	Try Columnia, III.
TERFACE SYSTEM	TELEVISION VIEWER INTERFACE SYSTEM	TWo Solutions Inc.	02/20/20	0.00000	257 000			03/30/3000		TWo Solutions Inc
maxing System	Multimedia Program Bookmarking System	TVo Solutions, Inc.				08/31/2017	20170251266	05/15/2017	US Pending 15/594,902	TVo Solutions, Inc.
OFF PROJECTED DIGITAL AND	COPI PROIDCIDO DIGI	TiVo Solutions, Inc.	03/30/2020	03/15/2005	6,868,225			03/30/2000	US Issued 09/538,925	TiVo Solutions, Inc.
TALLALD TO TOMBATT DROVAND METHOD AND EXCEPTED EDOOLISMS SAME	CORV BROTTED DIG	Rovi Solutions Corporation	10/24/2022	03/23/2010	7,685,641			08/22/2000	US Issued 10/069,387	Rovi Solutions Corporation
	COPY- PROTECTED CO	Rovi Solutions Corporation	08/11/2024	01/08/2007	7,161,885	06/10/2004	20040108383	03/13/2003	US Issued 10/386,922	Rovi Solutions Corporation
ELECTRONIC PROGRAM QUIDE SYSTEM AND METHODS	MULTIPLE INTERACTIVE ELEC	Rovi Guides, Inc.	07/06/2022	10/22/2013	8,566,871	11/10/2005	20050251822	07/15/2005	US Issued 11/182,081	Rovi Guides, Inc.
SCHEDULE SYSTEM WITH ENHANCED RECORDING CAPABILITY	SCHEDULE SYSTEM WIT	Royl Guides, Inc.				U6)U4/2015	20100100003	פועצעוויגע	renaing	RBV Guides, Inc.
WPARATUS AND METHOD FOR POSITIONING MOBILE STATION	APPARATUS AND METH	The second second	000000000000000000000000000000000000000	0.72.000					: 00	
YOWER SUPPLYING APPARATUS AND POWER SUPPLYING METHOD	POWER SUPPLYING AP	Royi Guides Inc	200000	8000/080/70	7 406 318	0802/2008	20050126928	10/18/2004	Tall Paris	Roy Guides Inc
APPARATUS AND METHOD FOR MANAGING BANDWIDTH IN BROADBAND WIRELESS ACCIESS SYSTEM	APPARATUS AND METH	Royi Guides, Inc.	08/09/2026	07/01/2008	7.394.675	03/01/2007	20070047274	08/09/2006	Issued	Royi Guides, Inc.
TOU OF THE THAT FOR WORLE PHONE AND RELIPHOUSE AND RELIPHOUSED I THERED I	RESISTACTORING RELEGIO	Royi Guides, Inc.	12/25/2028	06/29/2010	7.746.821	05/03/2007	20070097936	06/30/2006	US Issued 11/477,910	Royl Guides, Inc.
		Rovi Guides, Inc.	08/08/2027	08/19/2008	7,414,213	02/14/2008	20080035460	08/08/2007	US Issued 11/835,999	Rovi Guides, Inc.
O ABBABATI IS ULANNO BLOTO O BABED AND DE BABED ON BOSTTON OE CAMEBA I NIT	MAGE BLOTOGBABUIN	Rovi Guides, Inc.	11/13/2025	07/28/2008	7,405,751	10/28/2004	20040212708	10/08/2003	US Issued 10/680,418	Royl Guides, Inc.
AST ADAPTED CHANGE CONFERENCE AND AND ADAPTATES AND COMPLETE REPORTING MEDIUM FOR EXTENTIONAL THE RAST ADAPTED CHANGE CONFERENCE METHOD	FAST ADAPTIVE CHANN	Rovi Guides, Inc.	10/03/2029	09/13/2011	8,020,189	08/27/2009	20090217339	11/14/2008	US Issued 12/271,244	Rovi Guides, Inc.
PPARATUS AND METHOD FOR MANACING VIRTUAL PROCESSING UNIT	APPARATUS AND METH	Rovi Guides, Inc.	11/27/2031	03/01/2016	9,274,852	04/07/2011	20110083134	10/01/2010	US Issued 12/896,503	Rovi Guides, Inc.
PORTABLE TERMINAL WITH OPTICAL TOUCH PAD AND METHOD FOR CONTROLLING DATA IN THE SAME	PORTABLE TERMINAL V	Rovi Guides, Inc.	06/03/2033	09/15/2015	9,134,768	06/21/2012	20120154304	10/24/2011	US Issued 13/279,872	Rovi Guides, Inc.
TUS	LENS DRIVING APPARATUS	Rovi Guides, Inc.	02/07/2031	07/03/2012	8,213,098	08/25/2011	20110205645	02/07/2011	US Issued  13/021,913	Rovi Guides, Inc.
ORTABLE COMPUTER SYSTEM HAVING LOD MONITOR FOR SELECTIVELY RECEIVING VIDEO SIGHALL SPROM EXTERNAL VIDEO SIGHAL INPUT FROM EXTERNAL COMPUTER	PORTABLE COMPUTER	Rovi Guides, Inc.	10/30/2024	12/04/2007	7,305,501	01/16/2003	20030014576	04/03/2002	Issued	Rovi Guides, Inc.
E LENS MODULE	CAMERA HAVING DETACHABL	Rovi Guides, Inc.	12/30/2029	08/02/2011	7,988,372	07/01/2010	20100166417	12/30/2009	Issued	Rovi Guides, Inc.
APPARATUS AND METHOD OF PROVIDING USER INTERFACE	APPARATUS AND METH	Ruyi Guides, Inc.	020291700	07/2/2/10	8,008,700	us/surzu s	20130130100	11/28/2012	55080	Guides, File.
APPARATUS AND METHOD FOR EFFICIENTLY TRANSMITTING BROADCASTING CHANNEL UTILIZING CYCLIC DELAY DIVERSITY	APPARATUS AND METH	Boul Guider Inc	000000000000000000000000000000000000000	07430046	0 280 752	05000000	20420420408	44.0000000	Tree of the second	Doviden La
PROVIDING ONLINE GAME USING UCC AND GAME SERVER THEREFOR	GAME SERVICE METHOD FOR	Royi Guides Inc	01/18/2026	8000/70/20	7 379 477	12/22/2005	20050281240	06/10/2005	Seupo	Royi Guides Inc
R RECEIVING DIGITAL BROADCASTING	APPARATUS AND METH	Rovi Guides, Inc.	09/05/2030	01/31/2012	8,105,158	07/02/2009	20090170609	12/18/2008	Issued 1	Rovi Guides, Inc.
ECOGNITION IN THE DIGITAL IMAGING PROCESSOR	DIGITAL IMAGING PROC	Rovi Guides, Inc.	12/15/2030	02/14/2012	8.115.876	01/11/2007	20070008436	06/07/2006	Issued	Royl Guides, Inc.
	METHOD AND APPARAT	Rovi Guides, Inc.	06/05/2031	06/18/2013	8,466,979	05/19/2011	20110115936	10/25/2010	Issued	Rovi Guides, Inc.
INAL	APPARATUS AND METH	Rovi Guides, Inc.	02/22/2033	11/22/2016	9,503,872	08/29/2013	20130225118	02/22/2013	Issued	Rovi Guides, Inc.
	APPARATOS AND METH	Rovi Guides, Inc.	04/25/2033	11/21/2017	9,826,077	12/02/2010	20100306718	05/26/2010	US Issued 12/787,768	Rovi Guides, Inc.
TOTAL CONTRACTOR		Rovi Guides, Inc.	08/06/2028	08/03/2010	7,769,349	01/26/2006	2006-0019607	07/20/2005	US Issued 11/184,805	Rovi Guides, Inc.
	n SYSTEM METHOD AND	Rovi Technologies Corporation	09/18/2022	05/04/2010	7,711,795	05/04/2010	2006-0195600	03/31/2006	US Issued 11/278,403	Rovi Technologies Corporation
NAVIGATION OF LOCAL CONTENT		Ravi Technologies Corporation	07/17/2022	09/11/2007	7,269,634	02/05/2004	20040024889	01/16/2003	US Issued 10/346,726	Rovi Technologies Corporation
ETHOD, APPARATUS AND SYSTEM FOR USE IN MULTIMEDIA SIGNAL ENCODING	n METHOD, APPARATUS A	Ravi Technologies Corporation	06/30/2026	08/26/2014	8,817,889	11/01/2012	20120275512	04/16/2012	US Issued 13/447,485	Ravi Technologies Corporation
STEM FOR USE IN MULTIMEDIA SIGNAL ENCODING	METHOD, APPARATUS AND SY	Rovi Technologies Corporation	01/07/2031	05/08/2012	8,175,167	01/04/2007	20070002846	06/30/2006	US Issued 11/428,187	Rovi Technologies Corporation
USE IN NETWORK MANAGEMENT OF CONTENT	>	Rovi Technologies Corporation	12/27/2023	08/17/2010	7,779,097	07/20/2006	20060159109	12/16/2005	US Issued 11/303,507	Rovi Technologies Corporation
FOR USE IN NETWORK MANAGEMENT OF CONTENT	METHODS AND SYSTEM FOR I	Rovi Technologies Corporation	06/04/2023	03/30/2010	7,689,510	07/20/2006	20060161635	12/16/2005	US Issued 11/305,594	Rovi Technologies Corporation
SEVERATION ORGANIZATION AND/OR PLAYING BACK OF CONTENT BASED ON INCORPORATED PARAMETER DENTIFIERS	_	Rovi Technologies Corporation	02/19/2033	03/22/2016	9,292,516	08/17/2006	20060184538	02/16/2005	US Issued 11/060,638	Ravi Technologies Corporation
METHODS AND SYSTEMS FOR USE IN MAINTAINING MEDIA DATA GUALITY UPON CONNERSION TO A DIFFERENT DATA FORMAT		Rovi Technologies Corporation	02/11/2028	03/05/2013	8,392,826	10/22/2009	20080265617	06/24/2009	US Issued 12/491,198	Rovi Technologies Corporation
		Rovi Technologies Corporation	12/25/2026	06/30/2009	7,555,715	04/26/2007	20070094583	10/25/2005	US Issued 11/258,677	Rovi Technologies Corporation
SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR LATE SYNCHROMIZATION DURING THE EXECUTION OF A MULTIMEDIA EVENT ON A PLURALITY OF CLIENT COMPUTERS		Rovi lechnologies Corporation	חצמצמצמנם	072772004	6,788,130			ממשצימשגירט	ISSUBO	ROW   econologies Corporation
								0000000	7	

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Method And Apparatus For Stoure Transfer And Perplant Of Multimedia Content	TIVo Solutions, Inc.	03/03/2026	04/26/2014	8,713,605	06/02/2011	2011 20110131604	02/08/2011	US Issued 13/023,057	TIVe Solutions, Inc.
- I	TiVo Solutions, Inc.	03/28/2028	02/22/2011	7,895,633	06/15/2006	2005 20060127037	11/21/2005	US Issued 11/285,416	TiVo Solutions, Inc.
Method And Apparatus For Secure Transfer Of Previously Broadcasted Content	TiVo Solutions, Inc.	11/21/2025	02/09/2016	9,258,592	06/15/2006	1/21/2005 20060127038	11/21	US Issued 11/285,411	TiVo Solutions, Inc.
Method And Apparatus For Disphaying Branded Video Tags	TiVo Solutions, Inc.				08/18/2011	2011 20110202963	04/25/2011	US   Pending   13/093,689	TiVo Solutions, Inc.
Method And Apparatus For Displaying Branded Video Tags	TiVo Solutions, Inc.	03/29/2027	04/26/2011	7,934,170	06/22/2006	-	11/21	Issued	TiVo Solutions, Inc.
DIGITIAL VIDEO RECORDER VIDEO ED/TING SYSTEM	TiVo Solutions, Inc.	03/21/2028	05/08/2018	9,967,534		11/21/2005	11/21	US Issued 11/285,402	TiVo Solutions, Inc.
Remote Control Programming System	TiVo Solutions, Inc.	10/04/2024	08/09/2016	9,414,005		2014	07/22/2014	US Issued 14/338,335	TiVo Solutions, Inc.
Rumata Control Programming System	TiVo Solutions, Inc.	11/20/2025	07/22/2014	8.786,411		2/16/2009	12/16	US Issued 12/839,960	TiVo Solutions, Inc.
Reumate Control Programming System	TIVo Solutions, Inc.	06/09/2025	03/02/2010	7,671,758		0/04/2004	10/04	Issued	TVo Solutions, Inc.
Steaure Control Of Festivers Of A Digital Device	TiVe Solutions, Inc.	10/22/2026	04/26/2011	7,933,950		4/2004	10/04	Issued	TiVo Solutions, Inc.
APPROACH FOR STORNAS DIGITAL CONTENT ONTO DIGITAL VERBATLE DISCS (DVD'S)	TiVo Solutions, Inc.	11/09/2027	08/16/2011	8,000,584		2004	10/04/2004	Issued 1	TVo Solutions, Inc.
Method And Agonnius For Oesting An Enhanced Photo Digital Video Disc	TiVo Solutions, Inc.	08/06/2030	10/09/2012	8,285,111	11/11/2004	2003 20040223747	04/28/2003	Issued	TiVo Solutions, Inc.
Method And Apparehus For Creating An Expanded Functionality Digital Video Disc	HVo Solutions, Inc.	11/08/2023	04/05/2007	7,200,327	11/2//2003	-	04/21	Issued	IVO Solutions, Inc.
Television Signal Data Dativery System	IIVo Solutions, Inc.	02/02/80/80	US/24/2014	0,703,000	UNTURZUUS	è	0170872003	Issubd	TV6 Solutions, Inc.
Distributed Distributed Management System	IIVo Solutions, Inc.	01/16/2024	0 702/2013	8,478,114			04/21/2004	ISSUBO	I Vo Solutions, Inc.
Cleri-Side Mulmedia Content Targeting System	IIVo Solutions, Inc.	0/122/2020	12/15/2015	9,215,400	09/26/2013	J4/22/2013 20130251348	04/22	Ssued	IVo Solutions, Inc.
Cleri-Side Mullimedia Content Tengeting System	IIVo Solutions, Inc.	07/24/2020	05/28/2013	8,493,180	מטביבטיורו		08/2/2	Issued	IVo Solutions, Inc.
Bestronic Contant Datri bution And Schirange System	IIVo Solutions, Inc.	04/19/2023	03/08/2012	8.131.648	07/10/2003	l N	01/08/2003	Issued	I Vo Solutions, Inc.
Auditince Massurement System	TVo Solutions, Inc.	D#12 112022	010202010	0,840,027	uzizuzuzu		07/05/2002	Sound	Tivo solutions, inc.
Dyptographically Signod Filesystem	TWo Solutions, mc.	0010000	O CONTROL O	7,400,040	02/00/2000	) N	070252002	5000	TV Galatina Inc.
Dg till Stouriny Surveillence System	TiVe Solutions Inc.	00 00 00 00 00 00 00 00 00 00 00 00 00	000000000000000000000000000000000000000	7 400 5.170	03/06/00/00	1 0	24 66 60	19000	Tivo Solutions, inc.
Multimedii Sijnii Processing System	TWo Solutions Inc.	000000000000000000000000000000000000000	a control o	0,000,000	07.40.0007	3 5	02/20/2027	a succession	TWo Solutions Inc.
Top-Based Manus In Video Streams		02/20/20/20	08/04/2012	0,457,476	10/30/30	. N	07/06	lee leed	TiVe Solutions Inc.
Classed Caption Tegging System	TiVo Solutions Inc	ncncon	00//6/00/6	989 790 0	00/10/01/2	-	DA VO	100	TiVo Solutions Inc
Scheduling The Recording Of A Program Visi An Advertisement in The Breadost Stream	TiVo Solutions, Inc.	10/06/2020	05/28/2013	8,453,193	04/01/2010	N I	10/01/2009	Issued 1	TiVe Solutions, Inc.
CLOSED CAPTION TAGGING SYSTEM		07/26/2020	07/26/2011	7 986 868	10/15/2005	2005 20050278747	07/14/2005	US Issued 11/182 135	TiVo Solutions Inc
DIGITAL VIDEO REDORDER SYSTEM	TVo Solutions Inc	1000001	02/45/2011	7 880 064		-	nczen	Nel los	TVo Solutions Inc
Digital Mater Recorder System With An Integrated DND Recording Device	TiVo Solutions, Inc.				02/27/2014		11/05	Pending	TiVo Solutions, Inc.
	TiVo Solutions, Inc.	07/11/2020	09/02/2014	8,824,865	05/28/2009	1/13/2008 20090136215	11/13	US Issued 12/270,852	TiVo Solutions, Inc.
Transportable Digital Wideo Recorder System	TiVo Solutions Inc.	420/10/00/00	11/05/2013	8 577 305	MUCCCC/NO		04/18/2003	US	TiVo solutions Inc.
Multimed in Signal Processing System	TWo Solutions Inc	2000000	02/10/2012	8 280 041	2000/2002		07/05	60 102	TiVo Solutions Inc
Method For Improving Bandwidth Efficiency	TiVo Solutions Inc	01/08/2023	9007/20/5	7 558 470	03/28/2002		08/22/2001	legined.	TiVo Solutions Inc
Intelligent Rest Tip-Peer System And Method For Collaborative Suggestions And Propagation Of Media	TiVo Solutions, Inc.	12/08/2021	11/15/2005	6,965,730	11/11/2004		05/22	Issued	TiVo Solutions, Inc.
	Solutions,	12/21/2020	01/09/2018	9,866,920	09/10/2015	2.1	05/19/2015	Issued 1	utions
Intelligent Beer To-Peer System And Method For Colleborative Suppositions And Propagation Of Media	utions.	03/03/2021	06/09/2015	9,055,197	01/19/2012	N)	09/25	Issued	TiVo Solutions, Inc.
Recorder Tellevision Advertising Viewership	TiVo Solutions, Inc.	03/03/2025	03/06/2012	8,132,219	01/16/2003		06/21	Issued 1	TiVo Solutions, Inc.
		12/18/2020	05/06/2014	8,719,862	08/30/2012	N	05/08/2012	Issued 1	TiVo Solutions, Inc.
, Recorder Television Adventising Viewership	Solu	10/13/2021	05/08/2012	8,176,512	12/08/2005	27	07/15/2005	Issued 1	TiVo Solutions, Inc.
sed Playback	TiVo Solutions, Inc.	03/06/2023	02/04/2014	8.645.989	12/03/2009	1/2009 20090297122	08/11	US Issued 12/539.505	TVo Solutions, Inc.
Method For Enhanding Digital Video Recorder Tallerision Advertising Viewership	TWo Solutions Inc	0000	05400045	937 550	04.007.0006	-	10001001		TiVe Solutions Inc
DriverHost Lodeng System	TiVo Solutions Inc.	7CUC/8C/7U	08/17/2010	7 779 437	10/06/2001	2001 2001004820	12/18/2000	US Issued 09/740 618	TVo Solutions, Inc.
Method And Apparatus For Software Fallura Diagnosis And Rapair	TV- Calcing inc.	000000000000000000000000000000000000000		4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		60470000	2001	L	TWO Columnia, inc.
Multimadia Scriedule Presentation System		ככחכים	V000/00/90	A 757 827		2000	08/17	001004	TWo solutions Inc
n System	TiVo Solutions, Inc.	05/30/2020	11/04/2003	6 642 939	00/20/2000	2000 2000 100417	03/30/4000	US INSURA 12042,220	TIVe Solutions, Inc.
Multimedia Visual Progress Indication System	TIVO Solutions, Inc.	00.000,000	CHUCKING	8 135 364	8000/9090	0 N	02/14/2008	Sansa 1	TVo Solutions, Inc.
WULTIMEDIA VISUAL PROGRESS INDICATION SYSTEM	TiVo Solutions, Inc.	03/30/2020	01/15/2018	10,181,338	07/05/2018	3 N	11/06/2011	US Issued 15/805,084	TVo Solutions, Inc.
MULTIMEDIA INSUAL PROGRESS ROPICATION SYSTEM	Tivo solutions, inc.	02/20/2020	TUZKUKI	10161 228	07/05/2018	3 0	14/04	Issued	TVo solutions, Inc.
	TiVo Solutions, Inc.	03/30/2020	111075517	9,274,690	04/24/2014	_	12/31/2013	Issued	TVo Solutions, Inc.
	TiVe Solutions, Inc.	03/30/2020	03/24/2015	8,989,564	07/26/2012	-	04/03/2012	Issued	TVo Solutions, Inc.
Multimodia Visual Progress Indication System	lutions,	03/30/2020	03/18/2014	8,676,035	04/19/2012		12/22/2011	Issued	TVo Solutions, Inc.
Multimodis Visuali Progress Indication System 2		03/30/2020	21020000	0,111,970	U4/24/2000	-	12002/8/1/21	Issued	TV6 Solutions, Inc.
Multimedia Visual Progress Indication System	TVo Solutions, Inc.	03/30/2020	01/22/2008	7,321,716	2000	-	08/1 0/2004	Issued	TVo Solutions, Inc.
				-		-	12000		The second second

Muli Source And Destination Mode Discovery And Management Platform	TIVo Solutions, Inc.	03/08/2032	12/26/2017	9,854,309	04/28/2016	12/31/2015 20160119678		US Issued 14/985,941	TIVo Solutions, Inc.
Multi Source And Destination Media Discovery And Management Platform	TiVo Solutions, Inc.	01/29/2033	02/09/2016	9,258,609	09/13/2012	03/08/2012 20120233640		US Issued 13/415,584	TiVo Solutions, Inc.
Multimotion Multimotia Device	TIVo Solutions, Inc.	12/04/2029	12/13/2016	9,521,453	03/17/2011	2/04/2009 20110066663	1	US Issued 12/631,782	TiVo Solutions, Inc.
MALTIMEDIA DEVICE RECORDINO NOTIFICATION SYSTEM	TiVo Solutions, Inc.	10/22/2030	05/09/2017	9,648,380	03/17/2011	12/04/2009 20110064377		US Issued 12/631,778	TiVo Solutions, Inc.
MALTIFANCTION MALTIMEDIA DENOE	TiVo Solutions, Inc.				01/31/2019			Pending	TVo Solutions, Inc.
MALTIFANCTION MALTIMEDIA DENOE	TiVo Solutions, Inc.	12/04/2029	10/09/2018	10,097,880	03/17/2011	12/04/2009 20110066489		Issued	TiVo Solutions, Inc.
MEDIA CONTENT FINGERPRINTING SYSTEM	TiVo Solutions, Inc.	12/04/2029	01/24/2017	9,554,176	12/12/2013	08/12/2013   20130332951		Issued	TiVo Solutions, Inc.
Madia Content Finger Print System	TIVe Solutions, Inc.	12/05/2031	08/13/2013	8,510,769	03/17/2011	2/04/2009 20110064385		US Issued 12/631,783	TiVo Solutions, Inc.
	TiVo Solutions, Inc.	10/03/2031	02/16/2016	9,264,758	03/17/2011	2/04/2009 20110064378	_	US Issued 12/631,781	TiVo Solutions, Inc.
Determining A Position In Modia Content Based On A Name Information		01710/2030	CLDZ/BL/CD	878,050,8	01.02/RZ/IGN	N N		Issued	ilvo Solutions, inc.
Method And An Apparetus For Determining A Paying Pastion Based On Media Content Engerprints	Tive Solutions, Inc.	00/20/200	OF UNIVERSE	0,417,080	00/10/2011			South	Tive Solutions, Inc.
Multimotion Multimodia Davice	TiVo Solutions Inc	12.000.00	04/00/2013	8 417 006	02/17/2011			ing ing	TWo Solutions Inc
MLTIFANGTION MULTIMEDIA DENIGE	္က	02/02/2030	06/14/2016	9.369.758	08/14/2014		0	Issued	
AUDITION MURROR LIPORE	TIVo Solutions, Inc.	05/31/2032	04/22/2014	8,704,854	03/17/2011	2/04/2009 20110063317	1	US Issued 12/631,770	TiVo Solutions, Inc.
	TiVe Solutions, Inc.	12/04/2029	03/17/2015	8,984,626	03/17/2011	12/04/2009 20110067099		US Issued 12/631,759	TiVe Solutions, Inc.
METHOD AND TECHNOLOGISTOR ADAPTHE SCARCY.	TiVo Solutions, Inc.				04/25/2019	0/24/2018 20190124288		US Pending 16/169,508	TiVo Solutions, Inc.
WETHODS AND TECHNIQUES FOR ADAPTIVE SEARCH	TIVo Solutions, Inc.	01/15/2031	12/18/2018	10,158,823	08/05/2010	12/30/2009 20100198822		US Issued 12/650,534	TIVe Solutions, Inc.
WETHOOS AND TECHNIQUES FOR ADAPTIVE SEARCH	TIVo Solutions, Inc.				01/28/2016	V05/2015 20160028085	10	US Pending 14/875,378	TiVo Solutions, Inc.
Methods And Techniques For Adigotive Search	TIVo Solutions, Inc.	04/02/2030	10/06/2015	9,152,300	07/21/2011	13/31/2011 20110179453		US Issued 13/077,761	TiVo Solutions, Inc.
Adaptive Search Result User Interface	TiVo Solutions, Inc.	07/19/2032	05/19/2015	9,037,999	08/05/2010	-		Issued 1	TiVo Solutions, Inc.
STACKABLE COMMUNICATIONS SYSTEM	invo souttons, inc.	02/20/2028	12/11/2/10	0,104,541	04/24/2014	-		ISSUBO	Two solutions, inc.
STACKABLE COMMUNICATION SYSTEM	TiVo Solutions, Inc.	12/07/2029	12/18/2018	10,158,940	03/20/2014	-		Issued	TiVo Solutions, Inc.
Wreless Ethernet System	IIVO Solubons, Inc.	U4/23/2031	12/1//2013	0,010,310	RODZIZZION	2/25/2009 20090214051		Issued	Tivo Solutions, Inc.
SWIEL SEARCH SYSTEM	Tive Solutions Inc.	2	101470040	0	0000000	,		2	TWo Solutions, Inc.
HERARCHICAL TAGS WITH COMMUNITINGS	TiVo Solutions Inc					20000000		0	TiVo Solutions Inc
HERARCHEAL TAGS WITH COMMUNITY-BASED RATINGS						+		Pendina	TiVe Solutions, Inc.
Horarchical Tegs With Community-Bassed Ratings	TiVo Solutions, Inc.				12/08/2016			Pending	TiVo Splutions, Inc.
Herarchical Tags With Community-Based Rathings	TiVo Solutions, Inc.	04/30/2029	08/23/2016	9.424.264	02/26/2015	N)		Issued	TiVe Solutions, Inc.
	TiVo Solutions, Inc.	02/16/2030	11/04/2014	8,880,529	09/24/2009	14/30/2009 20090240692		US Issued 12/433,647	TiVo Solutions, Inc.
Autimod a Content System With Source And Fleid Offerentiation	TiVo Solutions, Inc.	06/19/2030	06/04/2019	10,313,760	11/20/2008	20080288461		Issued 1	TiVo Solutions, Inc.
	TIVo Solutions, Inc.	05/20/2029	12/16/2014	8,914,394		5/2008			TIVe Solutions, Inc.
A PARTICULAR CONTROL OF THE PARTICULAR CONTR	TIVo Solutions, Inc.				07/26/2018	03/21/2018 20180213292		US Pending 15/927,429	TVo Solutions, Inc.
MI TWEDA CONTRU SYSTEM	TiVo Solutions, Inc.	05/15/2028	04/24/2018	9,955,226	07/07/2016	03/14/2016 20160198231		US Issued 15/069,939	TiVo Solutions, Inc.
	TIVo Solutions, Inc.	07/31/2028	03/15/2016	9,288,548		35/1 5/2008		US Issued 12/121,672	TiVo Solutions, Inc.
	TiVo Solutions, Inc.				07/11/2019	20190222802		US Pending 16/238,485	TIVo Solutions, Inc.
cording Scheduling System	TIVo Solutions, Inc.				04/13/2017	2/21/2016 20170105050		US Pending 15/386,337	TiVo Solutions, Inc.
ording Scheduling System	TiVo Solutions, Inc.	05/15/2028	02/14/2017	9,571,892	05/14/2015	01/15/2015 20150131974		US Issued 14/597,838	TIVo Solutions, Inc.
Multimodia Content Search And Recording Scheduling System	TiVo Solutions, Inc.	05/15/2028	02/17/2015	8,959,099	05/02/2013	0/22/2012 20130111527		US Issued 13/657,592	TiVo Solutions, Inc.
stem	TiVo Solutions, Inc.	06/08/2029	10/30/2012	8,301,648	11/20/2008	35/15/2008 20080288460		US Issued 12/121,557	TiVo Solutions, Inc.
	TIVo Solutions, Inc.	06/21/2032	06/21/2016	9,374,605	05/08/2008	1/2007 20080109298	10/3	US Issued 11/982,256	TIVe Solutions, Inc.
	TiVo Solutions, Inc.	01/17/2031	03/19/2013	8,401,366	06/19/2008	0/30/2007 20080145034		US Issued 11/981,417	TiVo Solutions, Inc.
paarded With Efficient Use Of Resources	TIVo Solutions, Inc.	03/13/2031	2102/81/80	8,270,819	05/08/2008	0/30/2007 20080107401	1	US Issued 11/928,828	TiVo Solutions, Inc.
Method And Apparatus For Restricting DVD Content	TiVo Solutions, Inc.	07/05/2030	06/24/2014	8,761,585	09/13/2007	1/2007 20070212025	0,50	US Issued  11/713,368	TiVo Solutions, Inc.
CUSTOMENS DIR FUNCTIONALITY	TiVo Solutions, Inc.	03/01/2027	12/05/2017	9,837,122	10/22/2015	16/30/2015   20150302891		US Issued 14/788,355	TiVo Solutions, Inc.
Outombrig DNR Functionality	TiVo Solutions, Inc.	03/01/2027	07/28/2015	9,094,718	01/30/2014	<b>.</b>		Issued	TiVo Solutions, Inc.
Outomizing DVR Functionality	TiVo Solutions, Inc.	07/09/2028	10/01/2013	8,549,553	03/17/2011	_		Issued	TiVo Solutions, Inc.
Duttombring DVR Functionality	TiVo Solutions, Inc.	11/09/2027	12/28/2010	7,861,258	09/13/2007			Issued 1	TiVo Solutions, Inc.
	TiVo Solutions, Inc.	01/03/2027	04/22/2014	8,707,369	08/20/2007	N.		US Issued 11/649,444	TiVo Solutions, Inc.
SECURE TRANSFER OF PREMOUSLY BROADOUSTED CONTENT						-		Pending 16	TiVo Solutions, Inc.
	TiVo Solutions, Inc.	09/27/2026	10/08/2019	10,440,342	06/30/2016	9/2016 20160191988		Issued	TiVo Solutions, Inc.
WETHOD AND APPARATUS FOR SECURE TRANSFER AND PLAYBACK OF MULTIMEDIA CONTENT	TiVo Solutions, Inc.				03/07/2019	0/26/2018 20190075280	1	Pending 1	TiVo Solutions, Inc.
Method And Apparatus For Secure Transfer And Playbasis Of Multimedia Content	TIVo Solutions, Inc.	11/21/2025	12/18/2018	10,158,837	08/25/2016	2.1	0	Issued	TIVo Solutions, Inc.
Transfer And Playback Of Multimedia Content	TIVo Solutions, Inc.	03/13/2026	05/03/2016	9,332,293	08/21/2014	04/25/2014 20140237514		US Issued 14/262,557	TiVo Solutions, Inc.
Method And Apparatus For Secure Transfer And Playback Of Multimedia Content	TIVo Solutions, Inc.	11/27/2026	03/04/2014	8,667,546	06/09/2011	02/18/2011   20110135271		Issued 1	TVo Solutions, Inc.

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Secure Multimodia Transfer System	TIVo Solutions, Inc.	10/06/2024	08/19/2014	8,812,850	05/19/2005	20050108519	12/18/2003	d 10/741,596	US Issued	TiVo Solutions, Inc.
	TiVo Solutions, Inc.	02/18/2024	03/15/2011	7,908,635	05/22/2003	20030095791	08/29/2002	d 10/220,558	US Issu	TiVo Solutions, Inc.
Conditional Access System Aval Method For Prevention Of Rayley Attods	TIVo Solutions, Inc.	03/02/2021	03/25/2014	8,681,979	02/02/2012	20120027208	10/05/2011	d 13/253,909	US Issu	TiVo Solutions, Inc.
Conditional Access System Avel Method For Prevention Of Rayley Attacks	TiVo Solutions, Inc.	03/02/2021	10/11/2011	8,036,382	12/24/2009	20090316895	09/02/2009	d 12/553,027	US Issu	TiVo Solutions, Inc.
Conditional Access System And Method Prevention Of Replay Attacks	TiVo Solutions, Inc.	08/16/2024	08/15/2009	7,590,240	07/01/2004	20040126093	12/11/2002	d 10/220,356	US	TiVo Solutions, Inc.
BROADOAST PROGRAM RECORDING OVERRUN AND UNDERRUN SCHEDLING SYSTEM	TiVo Solutions, Inc.				06/06/2019	20190174176	02/08/2019	ing 16/271,609	US Pending	TiVo Solutions, Inc.
BROADDAST PROGRAM RECORDING OVERRUN AND UNDERRUN SCHEDULING SYSTEM	TiVo Solutions, Inc.	11/23/2022	02/24/2015	8,965,182	06/23/2011	20110154407	01/31/2011	d 13/018,296	US Issu	TiVo Solutions, Inc.
Smart Broadcast Program Recording Pajdring And Scheduling System	TiVo Solutions, Inc.	11/18/2023	10/20/2015	RE45,774			01/25/2013	d 13/751,034	US Issu	TVo Solutions, Inc.
Broadbast Program Recording Overrun And Underrun Scheduling System	TiVo Solutions, Inc.	11/18/2023	02/01/2011	7,882,520	12/19/2002	20020181854	06/21/2002	d 10/168,976	US	TiVo Solutions, Inc.
DISTRIBUTED, INTERACTIVE TELENSION PROGRAM GAIDE SYSTEM AND METHOD	. 5				08/16/2018	20180234737	09/21/2017	Ing 15//11,/29	US Pen	TiVo Solutions, Inc.
DISTRIBUTED, INTERACTIVE TELEVISION PROGRAM GAIDE SYSTEM AND METHOD	TiVo Solutions, Inc.	12/20/2020	10/17/2017	9,794,637	10/01/2015	20150281798	06/16/2015	d 14/741,337	US Issu	TiVo Solutions, Inc.
DISTRIBUTED, INTERACTIVE TELEVISION PROGRAM GUIDE; SYSTEM AND METHOD	TiVo Solutions, Inc.	12/08/2021	06/16/2015	9,060,099	10/04/2012	20120254920	05/15/2012	Ь.	US Issued	TiVo Solutions, Inc.
Distributed, Interestive Television Program Guider, System And Method	Two Solutions, inc.	0410412022	9000	0,101,600	9	20010240101	000000	0,000	500	Treo Columnia, Inc.
Distributed, Internative Television Program Guida: System And Method	TiVo Solutions, inc.	220201010	OEMEDO45	0 101 303	1044 1000	200700014100	2002/12/00	10100,000	Ue la issu	TWo Solutions, Inc.
NTELLIGENT SYSTEM AND METHODS OF RECOMMENDING MEDIA CONTENT TIEMS BASED ON USER PREFERENCES	Tivo Solutions, inc.	1000000	ORIOR/2007	7 336 556	04/48/2002	2002004752	000010000	10/489 970	10 00	TVo Solutions Inc.
Intiligent System And Methods Of Recommending Media Content forms Bresid On User Preferences	TWo Columnia, mc.	100000000000000000000000000000000000000	4 2020047	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000000000	201303010010	0.0000000000000000000000000000000000000	42/60/2000	LIG CO	TWo Solutions Inc.
Intelligent System And Methods Of Recommending Media Content Borns Doses of Outset Preferences	Tivo solutions Inc.	10/42/001	05/44/2012	8 4/3 380	02/10/2011	20110061076	11/15/2010	100000000000000000000000000000000000000	III CO	TWo Solutions Inc.
Intelligent System And Methods Of Recommending Media Content borns Based On User Preferences	TiVo Solutions Inc	ACOCUSO(O)	11/22/2010	7 840 086	CONCURRENCE	20020100186	COUCHECTO	10/468 80.00	III o	TWo Solutions Inc
Intelligent System And Methods Of Recommending Media Content brins Brisad On User Preferencis	TVo Solutions Inc.	00/10/10/10	00400000	0 522 757	040650010	201200010	10/12/04/1	12/2025 046	III CO	TVo Solutions Inc.
Method For Centeration, Dativery, And Validation Of Electronic Coupons Through Personal TV Service System	TWo Columbians Inc.	000000000000000000000000000000000000000	4200044	0 070 0 46	4 3000 3000	20020400404	COCCUMENTO CO		10 0	TWo Colutions Inc.
Method And Apparatus For Controlling At Least One Set-Top Box	TiVo Solutions Inc	08/44/2002	0.6/20/2006	7 055 031	08/15/2002	20020112159	10044/2001	000784510	110	TVo Solutions Inc
Automated Detection/Resumption Of Interrupted Television Programs	TiVo Solutions Inc	04/24/200	0.1/27/2009	7 484 334			04/24/2000	09/558410	110	TVo Solutions Inc
Daylay of Television Program Information Using Dynamicohy-Asjusted Scroll Rate	TVo Solutions Inc	02/11/20	01/20/2004	6 681 396			0006/11/50	M 09/502 621	US Issui	TVo Solutions Inc
DATA STORAGE MANAGEMENT AND SCHEDULING SYSTEM	TiVo Solutions, Inc.	02/11/2020	04/13/2004	6.721.953			02/11/2000	d 09/502.394	US Issu	TiVo Splutions, Inc.
	TiVo Solutions, Inc.	04/22/2024	06/06/2017	9,674,577			04/02/2004	d 10/816,982	US Issui	TiVo Solutions, Inc.
System or Remainly Contributing Union Recovering And Storage Bellevinor	TiVo Solutions, Inc.				08/15/2019	20190253767	04/09/2019	ing 16/379,427	US Pend	TIVo Solutions, Inc.
PROVIDENCE OF THE PROPERTY OF	TiVo Solutions, Inc.	01/11/2023	05/28/2019	10,306,331	03/23/2017	20170085961	11/30/2016	d 15/365,917	US Issu	TiVo Solutions, Inc.
HANDING OF RESOURCE AND A STATE OF A STATE O	TiVo Solutions, Inc.						08/30/2019	ing 16/557,306	US Penc	TiVo Solutions, Inc.
THE PROPERTY OF THE PROPERTY O	TiVo Solutions, Inc.	01/26/2037	10/15/2019	10,448,112	07/27/2017	20170214975	01/26/2017	d 15/417,190	US Issu	TiVo Solutions, Inc.
	TiVo Solutions, Inc.				03/30/2017	20170094341	09/30/2016	ing 15/283,214	US Penc	TiVo Solutions, Inc.
Could Depart Control Collection Section Could Depart Control Collection Section Could Depart Coul	TiVo Solutions, Inc.	05/06/2035	07/23/2019	10,360,179	12/22/2016	20160371290	09/01/2016	d 15/253,873	US Issu	TiVo Solutions, Inc.
MANAGINA MEDIA CONTENT UPI DADI GRQUPS	TiVo Solutions, Inc.	05/06/2035	07/10/2018	10,019,517	01/05/2017	20170006314	09/07/2016	d 15/258,982	US Issu	TiVo Solutions, Inc.
Cloud-Bassel Media Content Memograment	TiVo Solutions, Inc.	05/06/2035	04/30/2019	10,275,395	11/12/2015	20150324379	05/06/2015	d 14/705,938	US Issu	TiVo Solutions, Inc.
MA, TIMEDIA SPELINE ARCHITECTURE	TiVo Solutions, Inc.				03/07/2019	20190073492	11/02/2018	ing 16/178,993	US Penc	TIVe Solutions, Inc.
	TIVo Solutions, Inc.	04/19/2035	01/01/2019	10,169,621	10/01/2015	20150281297	03/26/2015	d 14/670,393	US Issu	TiVo Solutions, Inc.
r Creating And Sharing Customized Multimedia Segments	TIVe Solutions, Inc.				03/12/2015	20150074700	09/10/2014	ing 14/483,127	US Penc	TiVo Solutions, Inc.
Pyramic Tuner Alboration	TiVe Solutions, Inc.	08/19/2034	07/23/2019	10,362,351	02/19/2015	20150052568	08/19/2014	d 14/463,487	US Issu	TiVo Solutions, Inc.
LAPPING RECORDINGS	TiVo Solutions, Inc.	06/28/2033	09/10/2019	10,412,451	11/15/2018	20180332349	07/20/2018	d 16/040,703	US Issu	TIVe Solutions, Inc.
	TIVo Solutions, Inc.	11/04/2033	08/21/2018	10,057,646	04/07/2016	20160100218	12/10/2015	d 14/965,766	US Issu	TWo Solutions, Inc.
	TiVo Solutions, Inc.	01/11/2034	01/19/2016	9,240,217	12/25/2014	20140376884	06/28/2013	d 13/931,071	US Issu	TiVo Solutions, Inc.
	TiVo Solutions, Inc.				01/11/2018	20180014078	09/20/2017	ing 15/710,392	US Pending	TiVo Solutions, Inc.
AUTOMATIC RATE CONTROL BASED ON USER IDENTITIES	TiVo Solutions, Inc.	03/10/2034	09/19/2017	9,767,825	03/30/2017	20170092292	12/09/2016	d 15/374,455	US Issu	TiVo Solutions, Inc.
	TiVo Solutions, Inc.	03/18/2034	02/14/2017	9,569,168	09/18/2014	20140277653	03/10/2014	d 14/203,404	US Issu	TWo Solutions, Inc.
AUTOMATIG RATE CONTROL FOR IMPROVED AUDIO TIME SCALING	TiVo Solutions, Inc.	03/10/2034	07/16/2019	10,354,676	08/02/2018	20180218748	03/06/2018	d 15/913,197	US Issu	TiVo Solutions, Inc.
Automatic Ratio Control For Improved Audio Time Stalling	TiVo Solutions, Inc.	03/10/2034	04/10/2018	9,940,947	03/30/2017	20170092291	12/07/2016	d 15/371,776	US Issu	TiVo Solutions, Inc.
Automatic Ratio Control For Improved Audio Time Scaling	TiVo Solutions, Inc.	03/10/2034	02/14/2017	9,569,167	09/18/2014	20140277652	03/10/2014	d 14/203,391	US Issu	TiVo Solutions, Inc.
WHELESS MEDIA STREAMING SYSTEM	TIVe Solutions, Inc.				10/03/2019	20180306218	06/20/2019		Us Pending	TiVo Solutions, Inc.
	TiVo Solutions, Inc.	09/29/2033	08/09/2016	9,414,231	03/06/2014	20140068789	09/03/2013	d 14/016,936	US Issu	TiVo Solutions, Inc.
SPLAY DEVICE	TiVo Solutions, Inc.						08/22/2019	_	US Pending	TiVo Solutions, Inc.
pikyad On A Display Device	TiVo Solutions, Inc.	04/09/2035	10/01/2019	10,430,036	09/19/2013	20130246969	03/13/2013	d 13/801,927	US Issu	TiVe Solutions, Inc.
SCHEDU, INO MEDIA RECORDINO VIA A HANDHELD DEVICE	TiVo Solutions, Inc.	10/21/2033	09/26/2017	9,774,689	09/19/2013	20130246584	03/13/2013	d 13/800,892	US Issu	TIVo Solutions, Inc.
AUTOMATIO COMMERCIAL PLAYBACK SYSTEM	TiVo Solutions, Inc.	03/13/2033	11/21/2017	9,826,274	03/23/2017	20170085957	12/07/2016	d 15/371,561	US Issued	TiVo Solutions, Inc.
Automatic Commercial Playloads System	TIVo Solutions, Inc.	05/16/2033	12/20/2016	9,525,917	09/19/2013	20130247091	03/13/2013	d 13/801,454	US Issu	TiVo Solutions, Inc.

TMEPONT CORRELATION SYSTEM	TiVo Solutions, Inc.	08/13/2028	08/14/2018	10,051,296	05/11/2017	01/23/2017 20170134771	2/10	ued 15/413,370	US ISS	TiVo Solutions, Inc.
napoint Correlation System	TiVo Solutions, Inc.	08/13/2028	01/24/2017	9,554,161	10/15/2015	8/23/2015 20150296230	06/2	ued 14/748,121	lss lss	TiVo Solutions, Inc.
ntent Display System	TiVo Solutions, Inc.	08/13/2028	06/23/2015	9,064,271	08/21/2014	4/28/2014 20140236712	04/2	ued 14/265,258	US Iss	TiVo Solutions, Inc.
Zortent Disjany System	TiVe Solutions, Inc.	08/13/2028	04/29/2014	8,713,599	05/23/2013	01/22/2013 20130132171		ued 13/747,414	US Iss	TiVo Solutions, Inc.
Ambert Distribution System Using Transportable Memory Devices	TiVo Solutions, Inc.	02/22/2030	01/22/2013	8,359,612	02/18/2010	_		ued 12/191,261	US	TiVo Solutions, Inc.
EAL-TIME DVR USAGE AND REPORTING SYSTEM	TiVo Solutions, Inc.	09/17/2028	06/25/2019	10,334,296	07/20/2017	1/24/2017 20170208351	01/2	ued 15/414,362	US Iss	TiVo Solutions, Inc.
Basi-Time DVR Polling System	TiVe Solutions, Inc.	08/12/2028	02/07/2017	9,565,459	06/16/2016	20160173920	02/2	ued 15/049,446	US	TiVo Solutions, Inc.
asi-Timp DVR Poling System	TiVo Solutions, Inc.	08/12/2028	02/23/2016	9,271,040	05/15/2014	01/20/2014 20140137173		ued 14/159,212	US	TiVo Solutions, Inc.
teal-Time DVR Usige And Reporting System		11/18/2030	01/21/2014	8,634,703		38/12/2008		ued 12/190,519	US	TiVo Solutions, Inc.
Jais Acorymiy System	. 5	07/13/2030	1014/2014	0,002,077	01.07/91/70	2/2008 20100042833		020,00 FTC	80	TV- Solutions, Inc.
Sing Consumer Purchase Behavior For Talension Tergeting	TWo Solutions, Inc.	04 H	10110000	0 000,000	000000000000000000000000000000000000000	200000000000000000000000000000000000000	200	100000000000000000000000000000000000000	5 6	Tive Solutions Inc.
Bing Consumer Purchase Behavior For Television Taggling	TiVo Solutions Inc	04/14/2028	11/15/2011	8 060 398	06/10/2010			Issued 12634382		TVo Solutions Inc
		04/14/2028	02/07/2012	8.112.301	11/24/2011			+	_	TiVo Solutions, Inc.
Najuring Nation On Treasment Of Avaintising Unitspagnic By Milliothing Multiple Data Sources		04/14/2028	08/16/2011	8,000,993	06/24/2010	2/07/2009 20100161492		ued 12/632,470	US Iss	TIVo Solutions, Inc.
	TiVe Solutions, Inc.	04/14/2028	06/01/2010	7,729,940	10/15/2009	04/14/2008 20090259518		ued 12/102,388	US Iss	TiVo Solutions, Inc.
STREATED RACKED AND RETERVAL SYSTEM	TiVo Solutions, Inc.	01/18/2028	10/31/2017	9,807,064	06/02/2016	02/01/2016 20160156601	02/0	ued 15/012,796	US Iss	TiVo Solutions, Inc.
Statisticus Bakku And Retrievi Statin	TiVo Solutions, Inc.	10/30/2029	02/02/2016	9,251,012	07/23/2009	01/18/2008 20090187609		Issued 12/016,773	US Iss	TIVo Solutions, Inc.
ogrem Tite Displey With Anti-Aging	TIVe Solutions, Inc.	09/07/2027	07/07/2015	9,076,365	08/28/2014	5/2014 20140241694	05/0	ued 14/269,738	ss ss	TiVo Solutions, Inc.
ogram Tolo Display With Anti-Aging	TiVo Solutions, Inc.	10/12/2031	05/06/2014	8,718,441	03/12/2009	19/07/2007   20090067810		ued 11/852,184	lss lss	TiVo Solutions, Inc.
WITHORNBLE CONTENT RATING SYSTEM	TIVe Solutions, Inc.	01/03/2027	08/20/2019	10,390,095	02/04/2016	0/08/2015 20160037220	10/0	ued 14/879,341	US Iss	TIVo Solutions, Inc.
uthorside Content Rating System	TiVo Solutions, Inc.	10/27/2027	10/20/2015	9,167,305	07/17/2008	_		ued 11/649,427	US	TiVo Solutions, Inc.
Pasanal Curter ( Distribution Network	TiVo Solutions, Inc.	09/11/2026	10/08/2018	10,097,885	10/15/2015	_		ued 14/752,503	US	TiVo Solutions, Inc.
Parsonal Content Distribution Network	IIVo Solutions, Inc.	04/1 //2030	08/04/2015	9,100,702	8002/22/90	29/11/2006 20080118227	rigo	ued 11/919/17	C.S.	I Vo Solutions, Inc.
YISTEM AND METHOD FOR DIGITAL CONTENT RETRIEVAL	IIVO SOLUBONS, Inc.	0202011110	04/01/2014	5,057,348	71,027,5017,0	306/2012 201201/416/	usu	UBG 13/413,313	6	I Vo Solutions, Inc.
YSTEM AND METHOD FOR DIGITAL CONTENT RETRIEVAL	Tivo Coldinois, Ilia.	1126	0.02020.2	0,100,024	0 10 10 10 10 10 10 10 10 10 10 10 10 10	-		10400,140	Ь.	Tree Columnia, III.
Heltod And Appendus For Automated Bioling And Adventisement Pacement On A Ser-Top Box	Tivo Solutions Inc.	08.00/00/01	03/20/2012	8 0,000,000	04/44/2007	-		-	٠.	TVo Solutions Inc.
ethod And Appaintus For Adventisement PriA User Dalog On A Set-Top Box	TVo Solutions Inc	ACDOREC/AD	05/03/2016	9 330 314	11/28/2013		07/3	13/956 160	Sel sel	TVo Solutions Inc
ethod And Apparatus For Advertisement Placement In A User Dialog On A Set Top Box		96,007,00	08/07/2018	0 262 564	200112012	-		12/855 271	10 10	TVo Solutions Inc
	TiVo Solutions, Inc.	10/28/2026	05/19/2015	9.036.981	12/27/2012	_		_	_	TVo Splutions, Inc.
	Soluti				08/18/2016		04/2	ending 15/137.991	1	TiVo Solutions, Inc.
		06/23/2026	04/26/2016	9,326,031	09/04/2014			ued 14/275,792	US Iss	TiVo Solutions, Inc.
ethod And Appentus For Advertisement Pi A User Dislog On A Set-Top Box		07/05/2027	07/21/2015	9.088.826	12/27/2007	07/24/2006 20070300263		ued 11/492.281	Us Iss	TiVo Solutions, Inc.
3	TiVo Solutions, Inc.	10/28/2026	09/04/2012	8,261,300	12/27/2007	_		ued 11/474,039	US Iss	TiVo Solutions, Inc.
· 100	TiVo Solutions, Inc.	09/29/2026	08/11/2015	9,106,949	05/12/2011	01/15/2011 20110110646		ssued 13/007,619	_	TiVo Solutions, Inc.
TENTU JAI IN TELOUSINI INVESTI SANTANIUAN INVESTI SANTANIUAN SANTANIUS SEMINANIUS SANTANIUS SANTANIUS SANTANIUS SANTANIUS SEMINANIUS SANTANIUS SAN	TiVo Solutions, Inc.	09/29/2026	01/18/2011	7,873,982	12/27/2007	16/22/2006 20070300250		ued 11/473,990	US ISS	TVo Solutions, Inc.
	TiVe Solutions, Inc.				06/06/2019	1/13/2018 20190172492		nding 16/188,494	US Pe	TIVo Solutions, Inc.
NAMED DATA REPORTED AND ROWSHOUGHOUS STEEL	TiVa Solutions, Inc.	01/26/2028	12/11/2018	10,153,000	11/26/2015	08/04/2015 20150340065	08/0	ued 14/818,278	US Iss	TVo Solutions, Inc.
rhonizalion Sydem	TiVe Solutions, Inc.	06/22/2026	08/04/2015	9,100,670	02/27/2014	0/29/2013 20140059593	10/2	ued 14/066,613	US Iss	TiVo Solutions, Inc.
	TiVo Solutions, Inc.	06/22/2026	10/29/2013	8,572,669	02/04/2010	0/01/2009 20100027976	10/0	ued 12/572,037	US Iss	TiVo Solutions, Inc.
chronization System	TIVo Solutions, Inc.	06/22/2026	03/27/2012	8,146,130	02/11/2010	0/01/2009 20100033624	10/0	ued 12/572,032	US ISS	TiVo Solutions, Inc.
	TiVo Solutions, Inc.	02/05/2027	02/09/2010	7,661,121	12/27/2007	20070300249		ued 11/473,543	US Iss	TiVo Solutions, Inc.
	TiVe Solutions, Inc.	02/27/2021	04/12/2016	9,313,548	02/26/2015	11/03/2014 20150055938		ued 14/531,910	US Iss	TiVo Solutions, Inc.
	TiVo Solutions, Inc.	05/17/2021	12/18/2012	8,336,077	07/21/2011	04/04/2011 20110179441	04/0.	ued 13/079,326	US Iss	TiVo Solutions, Inc.
ccess To A Personal Television Service	TIVe Solutions, Inc.	02/27/2021	06/09/2015	9,055,273	05/29/2014	20140150008	1710	ued 14/155,600	lss lss	TIVo Solutions, Inc.
System And Method For Internet Access To A Personal Television Service	TiVo Solutions, Inc.	04/13/2021	02/18/2014	8,656,446	03/10/2011	11/12/2010 20110061071		ued 12/945,753	US Iss	TiVo Solutions, Inc.
System And Method For Internet Acassis To A Personal Television Service	TIVe Solutions, Inc.	11/20/2022	11/04/2014	8,881,210	02/10/2011	10/15/2010 20110033166		ued 12/905,965	US	TiVo Solutions, Inc.
RYSTEM AND METHOD FOR INTERNET ACCESS TO A PERSONAL TELEMISION SERMICE		11/03/2022	11/21/2017	9,826,273	10/09/2008			ued 12/140,182	US	TiVo Solutions, Inc.
		02/27/2021	12/26/2017	9,854,289	12/25/2014		08/1	ued 14/460,993	US Iss	TiVo Solutions, Inc.
Addirmod a Mobile Personalization System	TiVe Solutions, Inc.	03/30/2020	03/08/2016	9,282,273	10/15/2009	05/12/2009 20090259939		ued 12/464,819	US Iss	TiVo Solutions, Inc.
Auliciasting Multimedia Content Distribution Bystem	TIVo Solutions, Inc.	11/22/2024	08/04/2012	8,261,315	08/28/2005	04/12/2005 20050216842	04/1	ued 11/105,032	US Iss	TiVo Solutions, Inc.
R	TiVo Solutions, Inc.				04/25/2019	39/14/2018 20190124410		nding 16/131,763	US Pe	TiVo Solutions, Inc.
	TIVo Solutions, Inc.	02/27/2021	02/12/2019	10,206,010	04/21/2011	0/22/2010 20110083892	10/2	ued 12/910,741	lss lss	TIVo Solutions, Inc.
	TiVo Solutions, Inc.	02/27/2021	09/18/2018	10,080,063	07/08/2010	02/11/2010 20100175093		Issued 12/704,245	US Iss	TVo Solutions, Inc.
kelhod of sharing personal media using a digital recorder	TIVo Solutions, Inc.	05/10/2023	05/01/2012	8,171,520	05/19/2005	12/18/2003   20050108769		Issued 10/742,581	US Iss	TiVo Solutions, Inc.

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1		Playing Multimedia Content On Multiple Devices	TIVe Solutions, Inc.	01/25/2030	07/08/2019	10,349,107	09/29/2016	20160286274	_	15/181,386	_	'o Solutions, Inc.
1		Playing Multimedia Content On Multiple Devices	Solutions,	01/25/2030	06/14/2016	9,369,776	07/28/2011	20110185036	-	12/828,040	US Issued	듄
Column   C		AUTOMATIC UPDATES TO A REMOTE CONTROL DEVICE	dions,	07/23/2030	06/27/2017	9,691,273	12/08/2016	20160358461	08/18/2016	15/240,855		o Solutions, Inc.
No.   No.   1, 10, 10, 10, 10, 10, 10, 10, 10, 10,		Autometic Updates To A Remote Control Device	TIVe Solutions, Inc.	07/23/2030	08/23/2016	9,424,738	07/12/2012	20120178371	_	13/420,562		o Solutions, Inc.
Color   Colo		Determining Commands Based On Detected Movements Of A Remote Control Device	TiVo Solutions, Inc.	07/23/2030	07/07/2015	9,076,322	07/05/2012	20120174164	_	13/420,553	US Issued	o Solutions, Inc.
Mart   1970		PRIVACY LEVEL INDICATOR	TiVe Solutions, Inc.	04/04/2033	06/20/2017	9,685,072	03/01/2012	20120050310	11/04/2011	13/289,388	US Issued	o Solutions, Inc.
Column   C		Multi-Function Remate Control Device	TiVo Solutions, Inc.	08/28/2030	10/10/2017	9,786,159	01/26/2012	20120018400	_	12/842,966	US Issued	o Solutions, Inc.
Column   C		Multimedia Program Recording Schedule Manager	TiVo Solutions, Inc.	08/31/2031	12/26/2017	9,854,307	11/24/2016	20160345063	_	15/228,966		'o Solutions, Inc.
Column   C		Multimedia Program Recording Schedule Manager	Two solutions, inc.	08/20/2001	nonanzara	8,414,108	02/20/2013	210000012	_	30.000	Osuba	o soutions, inc.
10   15   15   15   15   15   15   15		Phrase-Based Communication System	in uns	00.00.00.00	000000000000000000000000000000000000000	9,040,887	02/04/2010	201200254444	01020101	19/000,044	le de la supu	o solutions, inc.
Column   C		Phrase-Based Communication System	TiVe Solutions Inc	0202	05/00/5047	0 845 007	STOCK NOCO	2018003444	10/48/2015	14.000	To lead	A Columns Inc
Color   Chica   Chic		Method And Apparatus For Controls Based On Concurrent Gestures	TiVe Solutions, Inc.	04/27/2031	12/15/2015	9.215.506	10/04/2012	20120254318	03/31/2011	13/077.712	US Issued	o Splutions, Inc.
15   Fire   1912   100		Multi-Layered Circuit Structure	TiVo Solutions, Inc.	04/18/2032	08/30/2016	9.430.128	07/12/2012	20120179970	01/06/2011	12/986,060	US Issued	o Solutions, Inc.
A Para   Geology   Character   Character		wull-Lafeter Alladi Struccio	≒	12/07/2030	08/27/2013	8,519,815			08/02/2011	13/196,739	US Issued	o Solutions, Inc.
1		- 1	utions,	12/07/2030	04/16/2013	8,421,575			12/07/2010	12/961,959	US Issued	o Solutions, Inc.
1			tions,	07/23/2030	07/28/2014	8,791,797	03/27/2014	20140085062		14/089,510	US Issued	o Solutions, Inc.
Part   10   10   10   10   10   10   10   1		Motion-Activated Remote Control Backlight	TIVe Solutions, Inc.	07/23/2030	11/26/2013	8,593,262	09/12/2013	20130234838	_	13/673,023		o Solutions, Inc.
1		Motion-Activated Remote Control Backlight	IIVo Solutions, Inc.	04/10/2031	04/30/2013	8,432,264			-	12/842,804	OS ISSUBO	o solutions, Inc.
1		RECORDING AND PLAYBACK SYSTEM BASED ON MULTIMEDIA CONTENT FINGERPRINTS		6202/#0/21	1020001	9,701,077	4102/#2/10	2014020201	-	14)220,383	<u> </u>	o souddons, mc.
2			Tive Solutions Inc.	2000	10/02/2017	0 764 277	07/04/0044	20140208287	-	14/555 303	_	& Solutions Inc
1		Simulatenous Recording And Playback Of Audio/Video Programs	TiVo Solutions Inc	01/01/2032	03/25/2014	8 683 145	06/09/2011	00110135283	_	12631 790	Liso Inc.	n Solutions Inc
Profession   Pro		Hayback Of Audiovided Content with Control Codes	TiVo Solutions, Inc.	03/13/2024	08/18/2015	9,113,212	04/17/2008	20080089671	12/06/2007	11/951,959	US Issued	o Solutions, Inc.
			TIVe Solutions, Inc.	07/08/2022	02/19/2013	8,380,049	03/27/2008	20080075426	08/03/2007	11/633,891	US Issued	o Solutions, Inc.
Part		Multi-Channel Playback Of Audio/Video Content		02/17/2023	07/28/2015	9,094,724	03/20/2008	20080069519	08/03/2007	11/633,863	_	
Paris   900000   1000000   100000   100000   100000   100000   100000   100000   1000000   100000   100000   100000   100000   100000   100000   1000000   100000   100000   100000   100000   100000   100000   1000000   100000   100000   100000   100000   100000   100000   1000000   100000   100000   100000   100000   100000   100000   1000000   100000   1000000   1000000   1000000   1000000   1000000   1000000   1000000   1000000   1000000   1000000   1000000   1000000   1000000   1000000   1000000   1000000   1000000   100000000		DYNAMIC ITEM HIGHLIGHTING SYSTEM	TIVe Solutions, Inc.				05/11/2017	20170134804	_	_	- 70	o Solutions, Inc.
Part		Dynamic Item Highlighting System	TiVe Solutions, Inc.	06/16/2029	03/07/2017	9,591,357	08/11/2016	20160234552	_	15/130,455	US Issued	o Solutions, Inc.
Parallel		Dynamic Item Highlighting System	TiVo Solutions, Inc.	06/16/2029	04/26/2016	9,326,037	01/28/2016	20160028088	_	14/870,891	US Issued	o Solutions, Inc.
Recommendation   Reco		Dynamic Item Highlighting System	TiVo Solutions, Inc.	06/16/2029	10/13/2015	9,161,092	10/30/2014	20140325563	07/15/2014	14/331,416	US Issued	o Solutions, Inc.
1		Dynamic Item Highlighting System	TiVo Solutions, Inc.	06/16/2029	07/15/2014	8,782,686	12/19/2013	20130340009	08/20/2013	13/971,743	_	o Solutions, Inc.
Profess    101-2014   201-2014		Dynamic Item Hghlighting System	TiVe Solutions, Inc.	06/16/20/29	08/20/2013	8,016,024	07/26/2012	20120192233	-	13/437,827	_	o Solutions, Inc.
Maria   Grazia   Maria   Mar		Dynamic Item Hghlighting System	TiVo Solutions, Inc.	05/16/2030	08/28/2012	0,255,255			-	12/485,706	US Issued	o Solutions, Inc.
Marie   Fallon   Particol   Par		CORRELATION OF MEDIA METADATA GATHERED FROM DIVERSE SOURCES	TiVo Solutions, Inc.	05/13/2029	07/04/2017	9,699,512	05/12/2016	20160134936	_	14/983,222		o Solutions, Inc.
10   Partry (101-2524   Delivery (101-2524)   Delivery (101-2524		Carrelation Of Media Metadata Cathered From Diverse Sources	TIVe Solutions, Inc.	05/13/2029	02/09/2016	9,258,610	01/08/2015	20150012949	_	14/481,895	US Issued	o Solutions, Inc.
Decay   10   10   10   10   10   10   10   1			TiVe Solutions, Inc.	05/13/2029	09/09/2014	8,832,744	03/28/2013	20130081075	_	13/682,568		o Solutions, Inc.
Part		Correlation Of Media Metadata Gathered From Diverse Sources	TiVo Solutions, Inc.	06/04/2030	11/20/2012	8,316,396	11/18/2010	20100293579	05/13/2009	12/465,619	US Issued	o Solutions, Inc.
Part   1		Program Shortcuts	TiVo Solutions, Inc.				05/12/2016	20160134940	01/15/2016	14/996,957	US Pending	o Solutions, Inc.
Form, No. 10 Printy 9103240 20 202041 20 20 201041 20 20104	RE	Program Shortcuts	TiVo Solutions, Inc.	07/04/2030	12/26/2017	9,854,312	03/06/2014	20140064709	11/07/2013	14/074,253	US Issued	o Solutions, Inc.
Profess    108   Profess    104   204		Program Shortcuts	TiVe Solutions, Inc.	09/24/2029	02/23/2016	9,270,963	11/04/2010	20100281506	_	12/433,831	US Issued	o Solutions, Inc.
Maria, No.   18   Parkon   1612 2006   2012 2012 2012 2012 2012 2012 2012 20	Ē <b>L</b>	AUTOMATIC CONTACT INFORMATION TRANSMISSION SYSTEM	TIVe Solutions, Inc.				09/13/2018	20180262807	_	15/974,408	US Pending	'o Solutions, Inc.
Marie   10   10   Parking   040122340	••	Automatic Contact Information Transmission System	lutions,	04/08/2029	05/29/2018	9,986,295	03/12/2015	20150074718	11/17/2014	14/543,433	US Issued	'o Solutions, Inc.
Paralleg   Paralleg   100 22 de   Paralleg   100 22 de   20 20 20 20 20 20 20 20 20 20 20 20 20	04	Autometic Contact Information Transmission System	TiVe Solutions, Inc.	04/08/2029	11/18/2014	8,893,180	09/19/2013	20130247092	04/26/2013	13/871,289		o Solutions, Inc.
The part   15	J 53	Automatic Contact Information Transmission System	TiVe Solutions, Inc.	05/27/2030	05/07/2013	8,438,596	10/14/2010	20100263004	_	12/420,789	US Issued	'o Solutions, Inc.
	P/	Real-Time DVR Programming	TiVe Solutions, Inc.				08/02/2018	20180220191	_	15/936,052	US Pending	o Solutions, Inc.
Titors, Inc.   US   Pending	<b>4</b> ⁻58			12/31/2028	05/01/2018	9,961,400	11/12/2015		1/2015	14/805,166	L_	o Solutions, Inc.
This patient   US   Pending   16/10/2/206   C81/2076	TE B	Real-Time DVR Programming	TiVe Solutions, Inc.	07/03/2029	08/18/2015	9,113,195			12/31/2008	12/347,897	US Issued	o Solutions, Inc.
This patient   US   Pending   16/10/2/266   26/10/21	FI	Shared DVR Programming Via A Web Page	TIVo Solutions, Inc.	11/13/2028	01/17/2017	9,549,219			08/26/2014	14/469,224	US Issued	'o Solutions, Inc.
Transpare   Tran	IT R/	Shared DVR Programming Via A Web Page	TiVo Solutions, Inc.	12/05/2030	08/26/2014	8,818,179			11/13/2008	12/270,493	US Issued	o Solutions, Inc.
Transpare   Tran				12/01/2030	12/17/2013	8,612,385	05/06/2010	20100114821	10/21/2008	12/254,842	US Issued	o Solutions, Inc.
This Sudians, Inc.   US   Pending   16/10/2/266   26/10/2/26   26/10	<b>/</b> 11		TiVe Solutions, Inc.	09/05/2028	11/27/2018	10,142,690	09/21/2017	20170272817	_	15/617,165		o Solutions, Inc.
uiors, Inc.         US         Pending 16/102/206         06/10/2018         2016/14/385         06/06/2019         ThVo Souldins, Inc.           uiors, Inc.         US         Pending 16/06/23/26         07/11/2019         07/11/2019         ThVo Souldins, Inc.           uiors, Inc.         US         Issued 12/205/761         08/05/2018         20/01/2019         8/44/302         06/11/2019         11/18/2029         ThVo Souldins, Inc.           uiors, Inc.         US         Issued 12/205/761         04/11/2013         01/17/2019         9/78/115         11/18/2029         ThVo Souldins, Inc.           uiors, Inc.         US         Issued 12/205/761         04/11/2013         01/17/2019         9/78/115         11/18/2029         ThVo Souldins, Inc.	H	SERVER-BASED PROGRAM RECORDING SCHEDULING	TIVo Solutions, Inc.	09/05/2028	07/04/2017	9,699,510	03/10/2016	20160073164	-	14/930,557	US Issued	o Solutions, Inc.
Juliuris, Inc.         US         Pending 16/102/206         D6/13/2018         2010/14/385         D000/2019         ThVo Souldings, Inc.           Juliuris, Inc.         US         Pending 16/002/266         07/11/2019         02/11/2019         \$4,044,206         06/11/2013         11/15/2029         ThVo Souldings, Inc.           Juliuris, Inc.         US         Issued         12/205/761         02/05/2018         02/11/2010         8,464,206         06/11/2013         11/15/2029         ThVo Souldings, Inc.	0	Server-Based Program Recording Scheduling	TiVo Solutions, Inc.	09/24/2028	11/03/2015	9,179,115	10/17/2013	20130272682	06/11/2013	13/915,520	US Issued	o Solutions, Inc.
US Pending 16/102.206   06/13/2016   20/16/14/365   06/08/2016   ThVo Soutions, Inc.  US Pending 16/102.206   06/13/2016   20/16/14/365   06/08/2016   ThVo Soutions, Inc.	8	Server-Based Program Recording Scheduling	TIVo Solutions, Inc.	11/18/2029	06/11/2013	8,464,309	03/11/2010	20100061708	08/05/2008	12/205,761	US Issued	
US Penning 16/102/206 08/13/2018 20190141985 05/09/2019 TVo Solutions, Inc.	SPONSE TO REACHING A TIMEPOINT RELATING TO THE CONTENT DATA AND NOTIFYING A SERVER	INTERRUPTING PRESENTATION OF CONTENT DATA TO PRESENT ADDITIONAL CONTENT IN RESI	tions,						07/11/2019		_	o Solutions, Inc.
	SPONSE TO REACHING A TIMEPOINT RELATING TO THE CONTENT DATA AND NOTIFYING A SERVER OVER THE INTE	INTERRUPTING PRESENTATION OF CONTENT DATA TO PRESENT ADDITIONAL CONTENT IN RESE	TIVe Solutions, Inc.				05/09/2019	20190141365				o Solutions, Inc.

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PROGRAM AUDIE APPLICATION INTERFACE SYSTEM	Rovi Guides, Inc.	05/17/2020	02/12/2018	10,205,995	04/28/2011	010 20110088573	12/30/2010	rued 12/982,382	US Iss	Rovi Guides, Inc.
PROGRAM GUIDE APPLICATION INTERPACE SYSTEM	Rovi Guides, Inc.	08/28/2021	11/24/2009	7,624,410	07/15/2004	003 20040139464	10/10/2003	rued 10/684,326	Ist SU	Rovi Guides, Inc.
PROGRAM GUIDE SYSTEM FOR RECORDING TELEVISION PROGRAMS	Rovi Guides, Inc.	09/13/2021	05/28/2012	8,189,996	04/15/2004	003 20040073927	07/24/2003	rued 10/627,426	US Iss	Rovi Guides, Inc.
NTERNET TELENSION PROGRAM QUIDE SYSTEM WITH EMBEDDED REALTIME DATA	Rovi Guides, Inc.	11/18/2020	09/11/2007	7,269,838		_	06/25/2	ued 09/891,494	US	Rovi Guides, Inc.
BLECTRONIC MAIL REMINDER FOR AN INTERNET TELEVISION PROGRAM GUIDE	Rovi Guides, Inc.	01/28/2022	06/24/2014	8,762,482	nev23/2005	20050138660	2/2 0/80	889,558/01	S	ROVI Guides, Inc.
SYSTEM AND METHOD FOR DISTRIBUTING AND BROADCASTING MULTIMEDIA	Royl Guides, Inc.	04/02/2020	04/03/2012	8,151,297	05/08/2003	2003008873	12/1//2002	ued 10/322,915	30	Royl Guides, Inc.
A COMPUTER-MPLEMENTED METHOD AND SYSTEM FOR EMBEDDING AND LLARY INFORMATION INTO THE HEADER OF A DIGITALLY SIGNED DECUTABLE (Tornabis Handle: Dynamic Tapping on Digitally Signed Files)	Royl Solutions Corporation	08/24/2028	บสาสสาธาร	8,387,072	1112322006		033172006	11/385,184		Roy Solutions Corporation
TWE-DASED METADATA MANAGEMENT SYSTEM FOR DIGITAL MEDIA	TiVo Solutions, Inc.				04/11/2019	-	10/09/2018	inding 16/155,633		TiVo Solutions, Inc.
Trine-Bassa Management System For Digital Madia		11/02/2030	10/08/2018	10,085,367		_	10/15/2010	rued 12/905,520	US S	TiVo Solutions, Inc.
ldendijking Multimedia Asset Similarity Using Stended Sementic And Laitent Feature Analysis	. 5	07/14/2034	06/25/2019	10,331,785	08/28/2014	013 20140244631	02/2/12	ued 13/7/8,771	30	TiVo Solutions, Inc.
USER INTERFACE FOR VIEWING TARGETED SEGMENTS OF MULTIMEDIA CONTENT BASED ON TIMEBASED METADATA SEARCH CRITERIA	TiVo Solutions, Inc.				10/03/2019	018 20180303402	06/19/2019	ending 16/446,448	<u> </u>	TiVo Solutions, Inc.
USER INTERFACE FOR VIEWNO TARGETED SEGMENTS OF MULTIMEDIA CONTENT BASED ON TIMEBIASED METADATA SEARCH CRITERIA	TiVo Solutions, Inc.	12/22/2031	08/06/2019	10,372,758	06/27/2013	-	12/22/2011	_		TiVo Solutions, Inc.
8YSTEMS AND METHODS FOR DYNAMICALLY CREATING HYPERLINKS ASSOCIATED WITH RELEVANT MULTIMEDIA CONTENT	I Vo Solutions, Inc.				7102270180		רוטביש רוטם	nding Touble	SS	IVo Solutions, Inc.
SYSTEMS AND METHODS FOR DYNAMICALLY CREATING HYPERLINIS ASSOCIATED WITH RELEVANT MULTIMEDIA CONTENT	TIVE Solutions, Inc.	UDJUTZUST	1107/17/90	9,000,700	RUZZZZE		US/17/2008	082,CUP(Z1	5 8	TV6 Solutions, Inc.
Interesting Promotional Content Management System And Article Of Manufacture Thereof	TIVE Solutions, Inc.	05/28/2023	רושבומרשו	8,042,047	OLOZVELISIO	٠.	04/08/2010	UBG 12//35,485	5 8	IIVo Solutions, Inc.
Timeline Alignment And Coordination For Closeb-Caption Toxt Using Spector Recognition Trenscripts	.1 8	00/20/2032	1 WZZIZU13	0,304,721		-	102/02/00	Issued Target, Lee	_	Tivo solutions, inc.
Timeline Alignment For Oloses-Ception Text Using Speech Recognition Transcripts	TVO Solutions, Inc.	03/03/2031	ZIUSZEDIUT	8,281,231	LLOZVBORDO	010 20110134321	טרטבעב ראשט	12/881,026	6	IVo Solutions, Inc.
Systems And Methods For Morethying Pre-Insented And/On Patential Advertisement Breaks In A Video Sequence	I Vo Solutions, Inc.	07/2/12031	11/13/2012	8,311,390	11/19/2009	20090285551	05/14/2009	ued 12/466,167	50	IVo Solutions, Inc.
BYSTEMS AND METHODS FOR SEMANTICALLY CLASSIFVING AND NORMALIZING SHOTS IN VIDEO	TiVo Solutions, Inc.	02/17/2029	12/26/2017	9,852,344	11/24/2016	20160342842	08/01/2016	15/225,665	US IS	TiVo Solutions, Inc.
Bystems And Nethods For Sementically Classifying And Normalizing Shots In Video	TiVo Solutions, Inc.	02/17/2029	08/02/2016	9,405,976	12/10/2015	-	08/18/2015	ued 14/829,593	US	TiVo Solutions, Inc.
Systems And Methods For Sementically Classifying And Namalizing Shots in Video	TiVo Solutions, Inc.	11/08/2029	08/18/2015	9,111,146	10/03/2013	_	04/03/2012	rued 13/438,435	US	TiVo Solutions, Inc.
Systems And Mathods For Semantically Clearsifying And Extracting Shots In Video	TiVo Solutions, Inc.	02/17/2029	04/28/2015	9,020,263	10/30/2014	012 20140321746	04/03/2012	rued 13/438,395	US	TiVo Solutions, Inc.
Systems And Methods For Bennerically Classifying Shots in Video	TiVo Solutions, Inc.	08/29/2031	11/13/2012	8,311,344	08/20/2009	-	9002/7 1/20	rued 12/372,561	US IS	TiVo Solutions, Inc.
Integrated Systems And Methods For Video-Based Object Modeling, Recognition, And Tracking	Tree Solutions, mc.	00101200	0.000	0,100	000000000000000000000000000000000000000		20020000	12021,000	Ь.	Two Connection, Inc.
Systems And Methods For Robust Video Signature With Area Augmented Metholing	Tivo Solutions, inc.	020010000	050000000000000000000000000000000000000	0 0,000,040	08/04/5000	-	10000	_	٠.	TiVo Solutions Inc.
GENERATED MESSAGING TO VIEW CONTENT ON MEDIA DEVICES	TiVo Solutions, inc.	044600	0040040	0 200 0 12	01020000	1 N	40000000	cining lower, con		TWo Solutions Inc.
AUDIO AND VIDEO PROGRAM RECORDING, EDITING AND PLAYBACK SYSTEMS USING METADATA	Tive Solutions, inc.	021 02024	0.02042012	0,600,040	104000000000000000000000000000000000000		000000000000000000000000000000000000000	_	, ,	Tivo Colutions Inc.
ADVANCED TRICK-PLAY MODES FOR STREAMING VIDEO		000000	07040000	0 120 242	000000000000000000000000000000000000000		00000000	44.604.505		TWo Solutions Inc.
Automatically Labeling Clusters Of Media Content Consumers	Tivo Solutions Inc.				Control of	040	000000000000000000000000000000000000000	-		TWo Solutions Inc.
Multi-Propia Directional Coupler Printed Circuit.	TIVE Solutions, Inc.	06.02700/80	01020200	117,800,01	03/06/2010	-	7/01/80	10/20/100	5 8	TWo Solutions, Inc.
SUBSCRIPTION OPTIMIZER	TiVo Solutions, Inc.	10/19/2036	04/24/2018	9,954,739	11/23/2017	-	05/23/2016	ued 15/162,413	US Iss	TiVo Solutions, Inc.
REAL-TIME AUDIENCE MEASUREMENT SYSTEM							06/14/2019	ending 16/441,957		TiVo Solutions, Inc.
REALTIME AUDIENCE MEASUREMENT SYSTEM	TiVo Solutions, Inc.	10/23/2028	07/30/2019	10,368,124	06/21/2018	017 20180176629	12/06/2017	ued 15/833,300	US	TiVo Solutions, Inc.
REAL-TIME AUDIENCE MEASUREMENT SYSTEM	I Vo Solutions, Inc.	10/23/2028	8102/08/10	8,885,233		_	10/2/3/2	12/25/,352	20	IVo Solutions, Inc.
SYSTEMS AND METHODS FOR USING VIDEO METADATA TO ASSOCIATE ADVERTISEMENTS THEREWITH	Solutions	3			06/09/2016	016 20160165288	02/16/2016	Pending 15/045,223	_	TiVe Solutions, Inc.
SYSTEMS AND METHODS FOR USING VIDEO METADATA TO ASSOCIATE ADVERTISEMENTS THEREMTH	TiVo Solutions, Inc.				08/27/2015	_	05/08/2015	inding 14/707,440	US	TiVo Solutions, Inc.
AUDIONISUAL CONTENT PRESENTATION DEPENDENT ON METADATA	TiVo Solutions, Inc.	04/10/2020	06/04/2019	10,313,714	03/19/2015	_	05/21/2014	ued 14/284,367	US	TiVo Solutions, Inc.
DEVIEVING MALTIMEDIA ASSET SIMILARITY USING BLENGED SEMANTIG AND LATENT FEATURE ANALYSIS	TiVo Solutions, Inc.				08/05/2019	_	05/22/2019	ending 16/419,547	70	TiVo Solutions, Inc.
METHOD AND SYSTEM FOR VOICE BASED MEDIA SEARCH	TiVo Solutions, Inc.				08/01/2019	019 20190236089	02/01/2019	ending 16/265,932	70	TiVo Solutions, Inc.
METHOD AND SYSTEM FOR VOICE BASED MEDIA SEARCH	TiVo Solutions, Inc.	10/31/2032	03/26/2019	10,242,005	08/16/2018	018 20180232368	04/10/2018	ued 15/949,754	US Iss	TiVe Solutions, Inc.
CE BASED MEDIA SEARCH	TiVo Solutions, Inc.	10/31/2032	05/15/2018	9,971,772	01/25/2018		07/10/2017	ued 15/645,526	US Iso	TiVo Solutions, Inc.
NRCH	TIVo Solutions, Inc.	10/20/2033	08/15/2017	9,734,151	05/01/2014		10/31/2012	ued 13/865,735	US Is	
Method And System For Channel Searching And Filtering	TiVo Solutions, Inc.	10/12/2032	11/06/2018	10,123,088	04/17/2014	012 20140104495	10/12/2012	ued 13/651,248	US Is:	TiVe Solutions, Inc.
FLICK TO SEND OR DISPLAY CONTENT	TIVo Solutions, Inc.				08/01/2019	_	04/12/2019	ending 16/383,113	70	TiVo Solutions, Inc.
isplay Content	TiVo Solutions, Inc.	08/19/2033	05/28/2019	10,303,357	05/24/2012	010 20120131458	11/19/2010	rued 12/950,857	US Iss	TiVo Solutions, Inc.
Set Top Enclosure	TIVo Solutions, Inc.	01/31/2032	01/31/2017	D777,696		016	10/06/2	ued 29/541,580	US Iss	TVo Solutions, Inc.
	TiVo Solutions, Inc.	01/10/2026	01/10/2012	D651,994		011	06/17/2011	ued 29/394,561	US Iss	TiVe Solutions, Inc.
	TIVo Solutions, Inc.	11/30/2024	11/30/2010	D628,192		010	03/02/2010	ued 29/356,700	US lss	TiVo Solutions, Inc.
	TIVo Solutions, Inc.	09/25/2021	09/25/2007	D551,668		06	10/19/2005	ued 29/240,914	US liss	TiVo Solutions, Inc.
twark Adapter With Antenna	TIVo Solutions, Inc.	10/09/2021	10/08/2007	D552,610		005	10/19/2005	ued 29/240,896	US Iss	TIVe Solutions, Inc.
	TiVo Solutions, Inc.	03/14/2020	03/14/2006	D517,059		005	01/27/2005	ued 29/222,390	us Isi	TiVo Solutions, Inc.
Paying Multimesia Content On Multide Devices	TIVo Solutions, Inc.				10/06/2016	06/13/2016 20160295268	06/13/2	Pending 15/181,394	US Pe	TVo Solutions, Inc.

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STABLISHING A MODE OF COMMUNICATION BETWEEN PARTICULAR USERS BASED ON PERCEIVED LULLS IN MEDIA ASSETS	METHODS AND SYSTEMS FOR E	Royi Guides, Inc.	05/23/2034	04/12/2016	9,313,538	11/05/2015	2014 20150318471	04/30/2014	US Issued 14/266,524	Rovi Guides, Inc.
WETHODS AND SYSTEMS FOR PRESENTING ADVERTISEMENTS TO PARTICULAR USERS BASED ON PERCEIVED LULLS IN MEDIA ASSETS	METHODS AND SYSTEMS FOR P	Rovi Guides, Inc.	05/03/2034	04/12/2016	9,313,537	11/05/2015	2014 20150319470	04/30/2014	US Issued 14/266,488	Rovi Guides, Inc.
ERECORDING CONTENT ASSOCIATED WITH RE-EMERGED POPULARITY	SYSTEMS AND METHODS FOR RE	Rovi Guides, Inc.	03/25/2034	10/28/2019	10,462,410	01/18/2018	2017 20180020184	07/28/2	US Issued 15/663,297	Rovi Guides, Inc.
WSTEMS AND METHODS FOR RE-RECORDING CONTENT ASSOCIATED MITH RE-EMERGED POPULARITY	SYSTEMS AND METHODS FOR R	Rovi Guides, Inc.	03/25/2034	08/01/2017	9,723,256	06/09/2016	2016 20160165175	02/04/2016	US Issued 15/015,779	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR RE-RECORDING CONTENT ASSOCIATED MITH RE-EMERGED POPULARITY	SYSTEMS AND METHODS FOR R	Rovi Guides, Inc.	08/31/2034	03/15/2016	9,288,431	10/01/2015	_	03/25/2	Issued	Rovi Guides, Inc.
YISTEMS AND METHODS FOR PROVIDING A SEQUENCE OF MIDEOCLIPS IN A PICTURE IN QUIDE	SYSTEMS AND METHODS FOR P	Rovi Guides, Inc.				10/01/2015	2014 20150281764	03/27/2014	US Pending 14/227,772	Rovi Guides, Inc.
METHODS AND SYSTEMS FOR PERFORMING DYNAMIC SEARCHES USING A MEDIA GUIDANGE APPLICATION	METHODS AND SYSTEMS FOR P	Rovi Guides, Inc.				10/01/2015	-	03/31/2014	Pending	Rovi Guides, Inc.
JETHODS AND SYSTEMS FOR SELECTING OUSTOMIZED CONTROL SCHEMES BASED ON BRAIN ACTIVITY	METHODS AND SYSTEMS FOR S	Rovi Guides, Inc.	03/31/2034	11/10/2015	9,185,447	10/01/2015	_	03/31/2014	US Issued 14/230,522	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR RECEIVING COUPON AND VENDOR DATA	SYSTEMS AND METHODS FOR R	ROVI Guides, Inc.					-	UB/U D/A	Bumua	Roy Guides, Inc.
SYSTEMS AND METHODS FOR RECEIVING COUPON AND NEMOOR DATA	SYSTEMS AND METHODS FOR R	ROVI Guides, Inc.				0.07/10/01	1/2014 2015UZ/8841	2017 DE	granding	Roy Guides, Inc.
ECEIVING PRODUCT DATA	SYSTEMS AND METHODS FOR RE	NOVI GUIDES, INC.	00/2/10/20	000077010	8,363,360	100172010	2014 20150251785	1000100014	SSUBG	Roy Guides, Inc.
JETHODS AND SYSTEMS FOR SELECTING MEDIA GUIDANGE AFFLICATIONS BASED ON A POSITION OF A SHAIN MONTORING USER DEVICE	METHODS AND SYSTEMS FOR S	Royl Guides, Inc.		200		10000000	3 2	8102/02/90	Tending	Roy Guides, Inc.
JETHODS AND SYSTEMS FOR SELECTING MEDIA GUIDANCE APPLICATIONS BASED ON A POSITION OF A BRAIN MONITORING USER DEVICE	METHODS AND SYSTEMS FOR S	O Guides, Inc.	0000	000000	10,000,002	000000000000000000000000000000000000000	-	0000	50000	Royl Guides, Iric.
SYSTEMS AND METHODS FOR CONTROLLING USER DENCES BASED ON BRAINACTIVITY	SYSTEMS AND METHODS FOR C		000010000	102/22/00	10 340,200	12/01/2010	2010 20100348041	000000000000000000000000000000000000000	S SOURCE OF	Royi Guides, Iric.
SYSTEMS AND METHODS FOR CONTROLLING USER DEVICES BASED ON BRAIN ACTIVITY	SYSTEMS AND METHODS FOR C	NOV GLICES, INC.	000000000000000000000000000000000000000	0 0000000	8,430,278	100172010		03/3/1/2014	Issued	Roy Guides, mc.
SYSTEMS AND METHODS FOR AUTOMATICALLY ADJUSTING VOLUME OF A MEDIA ASSET BASED ON INMIGATION DISTANCE	SYSTEMS AND METHODS FOR A	NOVI GUIDES, ITIC	000000000000000000000000000000000000000	0.0000000000000000000000000000000000000	0,700,000	1000172010		03/20/20/4	8000	Roy Guides, Inc.
WETHODS AND SYSTEMS FOR GENERATING CLISTOMIZED COLLAGES OF MEDIA ASSETS BASED ON USER GRITERIA	METHODS AND SYSTEMS FOR G	NOVI Guides, Inc.	000000000000000000000000000000000000000	07/8/2010	0 40,080,040	00/2/1/2010		100000	Sound	Roy Guides, Inc.
CONSTRAINED SELECTION OF FAVORITE CHANNELS	APPARATUS AND METHODS FOR	Rovi Guides, Inc.	01/28/2021	08/0//200/	7,254,823	gnaviana		08/13/2004	Issued	Roy Guides, Inc.
NTERACTIVE TELEVISION PROGRAM GUIDE WITH REMOTE ACCESS	INTERACTIVE TELEVISION PROG	KOVI GLIGES, INC.	R.DZZBL/RD	2 LD ZIGUKL L	8,978,413	71.07/80/20		1918/	ISSUBO	Royl Guides, Inc.
RAM GUIDE WITH REMOTE ACCESS	INTERACTIVE TELEVISION PROG	NOVI GUIGOS, ITIC	07720202	0.0000000000000000000000000000000000000	7,010,270	000000000000000000000000000000000000000	3 3	00/19/2007	5000	Con Guides, Iric.
NTERACTIVE TELEVISION PROGRAM GUIDE WITH REMOTE ACCESS	INTERACTIVE TELEVISION PROC	Down Guides, Inc.	07.00.00	02000000	7 012 020	02.44.07000	1 0	00400000	S S S S S S S S S S S S S S S S S S S	Boyl Guides, Inc.
EECTRONIC MALL SYSTEM EMPLOYING A LOW BANDMIDTH LINK FOR E-MALL NOTIFICATIONS (AS AMENDED)	ELECTRONIC MAIL SYSTEM EMP	Don't Guiden Inc.	00/10/20/20	0002002000	0 000,000	2000/2004	3	100077000	135000	Box Outdoo Inc.
SJENT-SERVER BASED INTERACTIVE TELEVISION PROGRAM GUIDE SYSTEM WITH RENOTE SERVER RECORDING	CLIENT-SERVER BASED INTERA	Double Children Inc.	PC DC/8 Man	200000000000000000000000000000000000000	6 896 020	1000	-	13/17/1008	De la	Dov. Guides Inc
SJENT-SERVER BASED INTERACTIVE TELEVISION PROGRAM QUIDE SYSTEM WITH REMOTE SERVER REDORDING	CLIENT-SERVER BASED INTERA	Davi Quides Inc	07/04/0000	00/03/0043	8 4508 030	10/00/0010		0.81/90	100	Povi Guides Inc
SJENT-SERVER BASED NTERACTIVE TELEVISION PROGRAM QUIDE SYSTEM WITH REMOTE SERVER REDORDING	CLIENT-SERVER BASED INTERA	Royi Guides Inc	OCOCURCION OF THE PROPERTY OF	01/01/2011	7 870 484 01	07/31/2008	9 9	08/20/2007	Remad 1	Royl Guides Inc
TIVE TELEVISION PROGRAM QUIDE SYSTEM WITH RENOTE SERVER RECORDING	CLIENT-SERVER BASED INTERAC	Royi Guides Inc	UCUCAEL/80	06/08/2010	7 735 107	07/05/2007	9 6	C/8 C/C/D	US Issued 11/712 785	Royl Guides Inc
SJERVER BASED INTERACTIVE TELEVISION PROGRAM GUIDE SYSTEM WITH SERVER RECORDING	CLIENT-SERVER BASED INTERA	Boyl Guides Inc	08/04/2020	06/15/2010	7 730 709	08/22/2007	38	04/18/2007	issued 1	Box Guides Inc
U.THTUNER RECORDING	SYSTEMS AND METHODS FOR MULTI-TUNER RECORDING	Rovi Guides, Inc.	10/03/2022	09/21/2010	7,802,285	12/22/2005	2.1	08/04/2	Issued 1	Rovi Guides, Inc.
CLENT-SERVER BASED METRA-OTHE TELEVISION CALDE WITH SERVER RECORDING	CLIENT-SERVER BASED INTERA	Rovi Guides, Inc.	10/26/2020	07/17/2018	10,027,998	10/13/2005	200	04/05/2005	Issued 1	Rovi Guides, Inc.
AINE TELENISION COULE WITH SERVICE NECOENDING	CLENT-SERVER BASED INTERAC	Rovi Guides, Inc.	06/25/2020	01/05/2016	9,232,254	04/19/2012	2011 20120093488	12/27/2	US Issued 13/338,014	Rovi Guides, Inc.
THE PROPERTY CONTROL THE TRANSPORT OF CONTROL OF THE TRANSPORT OF THE TRAN	CLENT-SERVER GASED WIERA	Royi Guides, Inc.	05/02/2020	09/11/2018	10,075,746	05/24/2012	2011 20120131613	11/11/201	US Issued 13/295,026	Rovi Guides, Inc.
THE TELEPHONE BROCKETH WITH BEHAVE SERVED BEFORENCE.	CHENT SERVED RASED INTEDA	Rovi Guides, Inc.	03/12/2025	07/20/2010	7,761,892	08/07/2003	2003 20030149988	02/06/2003	US Issued 10/361,478	Rovi Guides, Inc.
METAACTIVE TE EVISION BROCKAM GUIDE SYSTEM MANNON MUTDE E PONDES MITHIN A HOUSEHOUD	INTERACTIVE TELEVISION PROC	Royi Guides, Inc.	06/01/2020	07/11/2017	9,706,245	02/12/2009	2008 20090044226	07/24/2008	US Issued 12/178,813	Rovi Guides, Inc.
USER PROGRAM SEARCHING	TELEVISION SYSTEM WITH AIDED USER PROGRAM SEARCHING	Rovi Guides, Inc.	02/27/2020	05/20/2014	8,732,758	03/19/2009	2008 20090077589	11/18/2008	US Issued 12/273,277	Rovi Guides, Inc.
STORAGE DEVICE	PROGRAM GUIDE WITH A DIGITAL	Royi Guides, Inc.	12/02/2019	04/02/2013	8,413,191	12/16/2010	2010 20100316350	06/22/2	US Issued 12/820,507	Rovi Guides, Inc.
DEWICE	TELEVISION PROGRAM GUIDE V	Rovi Guides, Inc.	07/24/2021	12/27/2011	8,087,048	08/07/2008	2007 20080187280	08/20/2001	US Issued 11/894,617	Rovi Guides, Inc.
WITH DIGITAL STORAGE	ELECTRONIC PROGRAM GUIDE WITH DIGITAL STORAGE	Rovi Guides, Inc.	03/26/2022	11/02/2010	7,827,585	12/15/2005	2005 20050278771	08/04/2005	US Issued 11/197,867	Rovi Guides, Inc.
D A SECONDARY STORAGE DEVICE	TELEVISION PROGRAM GUIDE V	Rovi Guides, Inc.	11/14/2019	08/24/2010	7,784,081	02/08/2007	2006 20070033615	10/13/2006	US Issued 11/580,729	Rovi Guides, Inc.
	ELECTRONIC PROGRAM GUIDE	Royi Guides, Inc.	07/15/2024	09/07/2010	7,793,322	08/14/2003	2003 20030154477	03/05/2003	US Issued 10/383,311	Rovi Guides, Inc.
S AMENDED)	ELECTRONIC PROGRAM GUIDE	Rovi Guides, Inc.	04/05/2024	08/16/2011	8,001,564	08/14/2003	2003 20030154478	03/05/2003	US Issued 10/383,313	Rovi Guides, Inc.
	ELECTRONIC PROGRAM GUIDE V	Royi Guides, Inc.	08/18/2024	12/20/2011	8,082,568	08/07/2003		03/05/2003	US Issued 10/383,281	Rovi Guides, Inc.
OH AND RECORD CAPABILITIES	INTERACTIVE TELEVISION PROC	Royi Guides, Inc.	06/18/2020	01/02/2018	9,860,584	06/14/2012	2011 20120148211	10/24/2	US Issued  13/280,210	Rovi Guides, Inc.
	PROGRAM GUIDE SYSTEM WITH	Rovi Guides, Inc.	04/10/2020	12/17/2013	8,613,020	07/13/2006	2006 20060156336	03/08/2006	US Issued  11/371,490	Rovi Guides, Inc.
NAM GUIDE SYSTEM FOR DETERMINING USER VALUES FOR DEMOGRAPHIC CATEGORIES	INTERACTIVE TELEVISION PROGI	Rovi Guides, Inc.	12/20/2020	04/21/2015	9,015,750	04/14/2011	2010 20110088060	10/15/2010	US Issued 12/905,467	Rovi Guides, Inc.
OR DEMOGRAPHIC GATEGORIES	INTERACTIVE TELEVISION PROC	Rovi Guides, Inc.	08/25/2021	12/15/2009	7,634,786	07/14/2005		08/20/2	Issued 1	Rovi Guides, Inc.
RECORDING FROM AN INTERACTIVE PROGRAM GUIDE	SERIES REMINDERS AND SERIES	Ravi Guides, Inc.	01/05/2021	10/08/2013	8,555,321	11//11/2010	2010 20100284666	05/14/2	Issued 1	Rovi Guides, Inc.
RECORDING FROM AN INTERACTIVE PROGRAM GUDE	SERIES REMINDERS AND SERIES	Rovi Guides, Inc.	11/29/2020	06/03/2014	8,745,669	07/31/2008	- 3	08/20/2007	US Issued 11/894,698	Rovi Guides, Inc.
TWORKS, CHANNELS, AND PROGRAMS	SYSTEMS AND METHODS FOR A	Rovi Guides, Inc.	12/05/2021	03/10/2009	7,503,055	08/26/2004	20040168189	02/19/2004	US Issued 10/783,150	Rovi Guides, Inc.
	PROGRAM GUIDE SYSTEM WITH	Ravi Guides, Inc.	09/02/2020	03/27/2012	8,146,117	10/23/2008	- 21	05/05/2008	Issued	Rovi Guides, Inc.
	PROGRAM GUIDE SYSTEM WITH	Rovi Guides, Inc.	12/16/2019	11/19/2013	8,589,976	12/11/2008		05/05/2008	Issued	Rovi Guides, Inc.
REAL-TIME DATA SOURCES	PROGRAM GUIDE SYSTEM WITH	Rovi Guides, Inc.	01/21/2023	06/10/2008	7,386,871 C1		2002	11/26/2002	Issued 1	Royl Guides, Inc.
VIDEO WNIDOW BROWSING	PROGRAM GUIDE SYSTEM WITH	Rovi Guides, Inc.	12/23/2021	10/12/2010	7,814,421	06/26/2003	2003 20030117430	02/04/2003	US Issued 10/359,493	Rovi Guides, Inc.
INTERACTIVE ELECTRONIC TELEVISION PROGRAM GUIDE WITH DATABASE CONFIGURABILITY	INTERACTIVE ELECTRONIC TELE	Rovi Guides, Inc.	01/17/2021	07/26/2011	7,987,480	08/01/2005		04/20/2	Issued	Rovi Guides, Inc.

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	SYSTEMS AND METHODS FOR MULTI-DEVICE CONTENT RECOMMENDATIONS	Rovi Guides, Inc.			10/03/2019	05/31/2019 20190306578	US   Pending   16/427,920	Row Guides, Inc.
	SYSTEMS AND METHODS FOR MULTI-DEVICE CONTENT RECOMMENDATIONS	Rovi Guides, Inc.	4/2019 12/24/2034	0,313,757 06/0	04/05/2018	09/15/2017 20180098123	US Issued  15/705,972	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR MULTI-DEVICE CONTENT RECOMMENDATIONS	Rovi Guides, Inc.	0/24/2017 12/24/2034	10/2	06/30/2016	12/24/2014 20160192005	US Issued 14/582,325	Rovi Guides, Inc.
	PROGRAM GUIDE SYSTEM WITH COMBINATION CATEGORY SEARCH	Rovi Guides, Inc.				_	Issued	Rovi Guides, Inc.
	PROGRAM GUIDE SYSTEM WITH COMBINATION CATEGORY SEARCH	Royl Guides, Inc.				-	Bansa	Roy Guides, inc.
	METHODS AND SYSTEMS FOR VERIFYING MEDIA GUIDANCE DATA	Royi Guides, Inc.			U//12/2016	12/11/2017 20180199099	rending	Roy Guides, Inc.
	METHODS AND SYSTEMS FOR VERIFYING MEDIA GUIDANCE DATA	Rovi Guides, Inc.	242/2017 03/16/2035	,843,835	06/23/2016	٠.	Issued	Roy Guides, Inc.
	METHODS AND SYSTEMS FOR GENERATING A NOTIFICATION	Rovi Guides, Inc.				07/12/2019	US Pending 16/510,765	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR DISTRIBUTING MEDIA GUIDANCE AMONG MULTIPLE DEVICES	Rovi Guides, Inc.			06/20/2019	12/06/2018 20190191216	Pending	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR DISTRIBUTING MEDIA GUIDANCE AMONG MULTIPLE DEVICES	Rovi Guides, Inc.	01/122/2019 01/14/2035	10,187,692 01/2			Issued	Rovi Guides, Inc.
IDENCE THAT PRINT CORRESPONDS TO USER PROFILE	METHODS AND SYSTEMS FOR GRANTING PARTIAL OR FULL ACCESS TO AN APPLICATION BASED ON LEVEL OF CONFIDENCE THAT PRINT CORRESPONDS TO USER PROFILE	Rovi Guides, Inc.	L.			_	Issued	Rovi Guides, Inc.
DETECTED	METHODS AND SYSTEMS FOR INVOKING FUNCTIONS BASED ON WHETHER A PARTIAL PRINT OR ANENTIRE PRINT IS DETECTED	Rovi Guides, Inc.			04/19/2018	09/25/2017 20180109932	Pending	Rovi Guides, Inc.
DETECTED	METHODS AND SYSTEMS FOR INVOKING FUNCTIONS BASED ON WHETHER A PARTIAL PRINT OR AN ENTIRE PRINT IS DETECTED	Royi Guides, Inc.	10/28/2034	5,775,014	0102/01/80		Issued	Roy Guides, Inc.
DETECTED	METHODS AND SYSTEMS FOR INVOKING FUNCTIONS BASED ON WHETHER A PARTIAL PRINT OR AN ENTIRE PRINT IS DETECTED	Royi Guides, Inc.			U4/20/2010	10/28/2014 2016011/542	Issued	Ray Guides, inc.
	SYSTEMS AND METHODS FOR GENERATING SHADOWS FOR A MEDIA GUIDANCE APPLICATION BASED ON CONTENT	Royi Guides, Inc.			91.07760160		ISSUBO	RBV Guides, Inc.
VTIFIERS THROUGHOUT REQUEST/RESPONSE PROCESSING	SYSTEMS AND METHODS FOR GENERATING A UNIQUE FINGERPRINT AGGREGATING SET OF UNIQUE TRACKING IDENTIFIERS THROUGHOUT REQUESTIRESPONSE PROCESSING	Rovi Guides, Inc.					Issued	Roy Guides, Inc.
	METHODS AND SYSTEMS FOR PRESENTING CONTENT TO A USER BASED ON THE MOVEMENT OF THE USER	Doub Outdoor Inc.			L.	_	To add to the	Box Cuidos Inc.
	SYSTEMS AND METHODS FOR PRESENTING USER SELECTED SCENES	Povi Guides Inc			02/24/2014	00230/2014 2016000660	Ingligation of	Boyl Guides Inc
	SYSTEMS AND METHODS FOR PRESENTING USER SELECTED SCENES	Dovi Guides, III.	20016	020 405	02/24/2016	092012014 20160094875	100000000000000000000000000000000000000	Roy Guides, Inc.
MPONENTS	SYSTEMS AND METHODS FOR AUTOMATICALLY PERFORMING MEDIA ACTIONS BASED ON STATUS OF EXTERNAL COMPONENTS	Pout Cuidos Ino	TO TO TO THE PERSON OF THE PER	1,000	L,	-	D Succession	Boyl Cuidos, Inc.
	METHODS AND SYSTEMS FOR CALIBRATING USER DEVICES	Povi Guidee Inc					100000	Royl Guides, Inc.
	METHODS AND SYSTEMS FOR CONTROLLING USER DEVICES	Povi Cuides Inc					no in	Book Guides Inc
	SYSTEMS AND METHODS FOR PERFORMING ASR IN THE PRESENCE OF HETEROGRAPHS				L	2	Issued	Royl Guides, Inc.
	SYSTEMS AND METHODS FOR SEARCHING FOR A MEDIA ASSET	Rovi Guides, Inc.	8/01/2017 07/31/2034	.721,564 08/0	02/04/2016	_	Issued	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR SEARCHING FOR A MEDIA ASSET	Rovi Guides, Inc.			06/28/2018	11/27/2017 20180181571	Pending	Royl Guides, Inc.
INCOT	METHODS AND SYSTEMS FOR RECALIBRATING A USER DEVICE BASED ON AGE OF A USER AND A RECEIVED VERBAL INFUT	Rovi Guides, Inc.	8	11	03/31/2016	09/30/2014 20160092447	Issued 1	Rovi Guides, Inc.
	OTO ENS AND METHOUS FOR DETERMINING ALTERNATIVE NAMES	Rovi Guides, Inc.	/18/2017 12/21/2034	.710,071 07/1	03/24/2016	09/22/2014 20160085317	US Issued 14/492,377	Rovi Guides, Inc.
	OVOTENO AND METADOS EOD DETERMINANO AL TERMATICA MAMEO	Rovi Guides, Inc.	01/10/2017 06/12/2035	9,542,395 01/1	03/03/2016	08/29/2014 20160062994	US Issued 14/473,609	Rovi Guides, Inc.
The style of the s	METHODS AND SYSTEMS FOR LIBORATING PATARASE TAGS FOR MEDIA CONTENT	Rovi Guides, Inc.	12/05/2019 05/21/2036	10,198,498 02/0	11/17/2016	05/13/2015 20160335339	US Issued 14/710,965	Rovi Guides, Inc.
TE OF THE USER	METHODS AND SYSTEMS FOR PREVENTING A USER FROM TERMINATING SERVICES BASED ON A CONSUMPTION RATE OF THE USER	Rovi Guides, Inc.	2/20/2016 09/30/2034	,525,899 12/2	10/29/2015	09/30/2014 20150312604	US Issued 14/502,017	Rovi Guides, Inc.
OF A PREFERRED MEDIA ASSET	METHODS AND SYSTEMS FOR PREVENTING A USER FROM TERMINATING A SERVICE BASED ON THE ACCESSIBILITY OF A PREFERRED MEDIA ASSET	Rovi Guides, Inc.				04/30/2019	US Pending 16/398,533	Rovi Guides, Inc.
OF A PREFERRED MEDIA ASSET	METHODS AND SYSTEMS FOR PREVENTING A USER FROM TERMINATING A SERVICE BASED ON THE ACCESSIBILITY OF A PREFERRED MEDIA ASSET	Rovi Guides, Inc.	16/18/2019 09/30/2034	0,327,019 06/1	10/29/2015	09/30/2014 20150312609	US Issued 14/501,520	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR PREVENTING USERS FROM TERMINATING SERVICES BASED ON USE	Rovi Guides, Inc.	1/01/2016 10/31/2034	,485,528 11/0	10/29/2015	09/30/2014 20150312630	US Issued 14/502,148	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR PREVENTING USERS FROM TERMINATING SERVICES	Rovi Guides, Inc.	05/17/2016 11/20/2034	,344,749 05/1	10/29/2015	09/30/2014 20150312626	US Issued 14/502,623	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING MEDIA GUIDANCE IN RELATION TO PREVIOUSLY-MEWED MEDIA ASSETS	Rovi Guides, Inc.			01/14/2016	07/11/2014 20160011743	US Pending 14/329,559	Rovi Guides, Inc.
RE	SYSTEMS AND METHODS FOR AUTOMATICALLY ENABLING SUBTITLES BASED ON USER ACTIVITY	Rovi Guides, Inc.	1/03/2017 06/25/2034	1,538,251 01/0	12/31/2015	06/25/2014 20150382071	US Issued 14/314,649	Rovi Guides, Inc.
E	SYSTEMS AND METHODS FOR AUTOMATICALLY SETTING UP USER PREFERENCES FOR ENABLING SUBTITLES	Rovi Guides, Inc.	2/20/2016 06/25/2034	.525,918 12/2	12/31/2015	06/25/2014   20150382064	US Issued  14/314,644	Rovi Guides, Inc.
L	METHODS AND SYSTEMS FOR PROVIDING OBJECTS THAT DESCRIBE MEDIA ASSETS	Rovi Guides, Inc.	7/19/2016 06/26/2034	,398,343 07/1	12/31/2015	06/26/2014   20150382068	US Issued 14/315,702	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING MEDIA ASSET RECOMMENDATIONS FOR A GROUP	Rovi Guides, Inc.	0/31/2017 07/23/2034	.807,436 10/3	01/28/2016	07/23/2014   20160029057	US Issued 14/338,471	Rovi Guides, Inc.
	WETHODS AND SYSTEMS FOR ADJUSTING THE AMOUNT OF TIME REQUIRED TO CONSUME A WEDIA ASSET BASED ON A CURRENT TRIP OF A USER	Rovi Guides, Inc.	6/07/2016 05/30/2034	3,363,544 06/0	12/03/2015	05/30/2014 20150350709	US Issued 14/291,245	Rovi Guides, Inc.
I 53	METHODS AND SYSTEMS FOR ALERTING USERS REGARDING MEDIA AVAILABILITY	Rovi Guides, Inc.	3/29/2016 05/30/2034	1,301,013 03/2	12/03/2015	05/30/2014 20150350746	US Issued 14/291,233	Rovi Guides, Inc.
P#	METHODS AND SYSTEMS FOR PRESENTING SCROLLABLE DISPLAYS	Rovi Guides, Inc.	0/01/2019 10/01/2035	0,430,067 10/0	06/23/2016	12/18/2014   20160179318	US Issued 14/574,915	Rovi Guides, Inc.
<b>\</b> ⁻ 58	SYSTEMS AND METHODS FOR UPDATING MEDIA ASSET DATA BASED ON PAUSE POINT IN THE MEDIA ASSET	Rovi Guides, Inc.	13/15/2016 06/04/2034	,288,521	12/03/2015	05/28/2014 20150350707	US Issued 14/288,743	Rovi Guides, Inc.
ΓE 3	SYSTEMS AND METHODS FOR TEMPORAL VISUALIZATION OF MEDIA ASSET CONTENT	Rovi Guides, Inc.	6/06/2017 03/19/2035	1,672,865 06/0	12/03/2015	05/30/2014 20150346955	US Issued 14/292,076	Rovi Guides, Inc.
E F	SYSTEMS AND METHODS FOR USING WEARABLE TECHNOLOGY FOR BIOMETRIC-BASED RECOMMENDATIONS	Rovi Guides, Inc.	2/27/2016 08/21/2034	3,531,708 12/2	12/03/2015	05/30/2014 20150350201	US Issued 14/292,381	Rovi Guides, Inc.
IT RA	METHODS AND SYSTEMS FOR PRESENTING CUSTOMIZED OPTIONS ON A SECOND DEVICE	Rovi Guides, Inc.		_		_	Issued	Ravi Guides, Inc.
<b>\</b> I	SYSTEMS AND METHODS FOR GENERATING FOR DISPLAY AN INTERACTIVE MEDIA GUIDE BASED ON USER HISTORY	Rovi Guides, Inc.	0/2016 06/30/2034	,451,315 09/2	12/31/2015	06/30/2014 20150382052	Issued 1	Rovi Guides, Inc.
<b>/</b> 11	SYSTEMS AND METHODS FOR LOADING INTERACTIVE MEDIA GUIDE DATA BASED ON USER HISTORY	Rovi Guides, Inc.			03/29/2018	08/07/2017 20180091865	Pending 1	Rovi Guides, Inc.
<b>E</b> :	SYSTEMS AND METHODS FOR LOADING INTERACTIVE MEDIA GUIDE DATA BASED ON USER HISTORY	Rovi Guides, Inc.	18/08/2017 06/30/2034	,729,933 08/0	12/31/2015		Issued	Rovi Guides, Inc.
0	METHODS AND SYSTEMS FOR ESTABLISHING COMMUNICATION WITH USERS BASED ON BIOMETRIC DATA	Rovi Guides, Inc.			09/27/2018	03/21/2018 20180278618	Pending 1	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR ENABLING MEDIA GUIDANCE APPLICATION OPERATIONS BASED ON BIOMETRIC DATA	Rovi Guides, Inc.	1/10/2017 06/20/2034	1,542,567 01/1	11/05/2015	04/30/2014 20150317465	Issued	Rovi Guides, Inc.
ЛSIDE A VIEWING AREA	METHODS AND SYSTEMS FOR PERFORMING PLAYBACK OPERATIONS BASED ON THE LENGTH OF TIME A USER IS OUTSIDE A NEWING AREA	Rovi Guides, Inc.	12/26/2017 04/30/2034	12/2	11/05/2015	04/30/2014 20150319400	US Issued 14/265,713	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR CONTROLLING MEDIA GUIDANCE APPLICATION OPERATIONS DURING WIDEO GAMING APPLICATIONS	Rovi Guides, Inc.	0/10/2017 12/21/2035	3,782,681 10/1			US Issued 14/265,705	Rovi Guides, Inc.

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	SYSTEMS AND METHODS FOR UPDATING A KNOWLEDGE GRAPH THROUGH USER INPUT	Rovi Guides, Inc.			9	01/10/201	09/17/2018 2019001234	US Pending 16/133,134	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR UPDATING A KNOWLEDGE GRAPH THROUGH USER INPUT	Rovi Guides, Inc.	10/27/2036	09/18/2018	10,078,65	10/27/2016	04/27/2015 20160314158	US Issued  14/697,196	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR DETERMINING MEDIA CONTENT TO DOWNLOAD	Rovi Guides, Inc.			6	8 06/30/2016	03/30/2015 20160188728	US Pending 14/673,025	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR PROVIDING MEDIA RECOMMENDATIONS BASED ON USER LOCATION	Rovi Guides, Inc.			6		_	Pending	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR TETHERING DEVICES	Royl Guides, Inc.			· ·			rending	Royi Guides, Inc.
	SYSTEMS AND METHODS FOR TETHERING DEVICES	Rovi Guides, Inc.	04/24/2035	07/17/2018	10,025,864	8 06/30/2016	04/24/2015 20160191688	Issued	Royl Guides, Inc.
	SYSTEMS AND METHODS FOR UPDATING LINKS BETWEEN KEYWORDS ASSOCIATED WITH A TRENDING TOPIC	Rovi Guides, Inc.					٠.	Pending	Royl Guides, Inc.
	SYSTEMS AND METHODS FOR UPDATING LINKS BETWEEN KEYWORDS ASSOCIATED WITH A TRENDING TOPIC	Rovi Guides, Inc.	04/04/2036	09/04/2018	10,068,023		03/30/2015 20160188729	Issued	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR SYNCHING SUPPLEMENTAL AUDIO CONTENT TO VIDEO CONTENT	Rovi Guides, Inc.	04/28/2035				_	Issued	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR SELECTING SOUND LOGGS FOR MEDIA CONTENT	Rovi Guides, Inc.	03/31/2035	1		i		Issued 1	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR RECOMMENDING MEDIA CONTENT	Rovi Guides, Inc.					<del></del>	Pending	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR RECOMMENDING MEDIA CONTENT	Rovi Guides, Inc.	07/27/2035	10/09/2018	10,097,648			Issued	Rovi Guides, Inc.
SPECT TO MEDIA ASSETS	SYSTEMS AND METHODS FOR IMPROVING ACCURACY IN MEDIA ASSET RECOMMENDATION MODELS BASED ON USERS' LEVELS OF ENJOYMENT WITH RESPECT TO MEDIA ASSETS	Royi Guides, Inc.	04/23/2035					Issued	Roy Guides, Inc.
	SYSTEMS AND METHODS FOR IMPROVING ACCURACY IN MEDIA ASSET RECOMMENDATION MODELS	Royi Guides, Inc.						Bullbuah	Royl Guides, Inc.
	SWART CHANNEL ENTRY SYSTEM	Royl Guides, Inc.	08/03/2021	02/80/80	0,002,707			Dan disa	Roy Guides, Fro
	SMART CHANNEL ENTRY SYSTEM	Royl Guides, Inc.	12/03/2018	07/20/2004	, ,			Subd	Royi Guides, Inc.
	SYSTEMS AND METHODS FOR IDENTIFYING AND STORING A PORTION OF A MEDIA ASSET	Down Guides, Inc.					000000000000000000000000000000000000000	9	Sovi Guides, Iria.
	SYSTEMS AND METHODS FOR IDENTIFYING AND STORING A PORTION OF A MEDIA ASSET	Boyl Guides, Inc.	uoraurzu aa	09/24/2018	10,420,000	12141201	03/24/2017 20170339014	D Sound	Royl Guides, Iric.
	SYSTEMS AND METHODS FOR IDENTIFYING AND STORING A PORTION OF A MEDIA ASSET	Royl Guides, Inc.	03/30/2035				06/28/2016 2016030921/	ISSUBO	Royl Guides, Inc.
	SYSTEMS AND METHODS FOR IDENTIFYING AND STORING A PORTION OF A MEDIA ASSET	Royl Guides, Inc.	03/30/2035				-	SSUBO	Royl Guides, Inc.
	ELECTRONIC PROGRAM QUIDE WITH RELATED-PROGRAM SEARCH FEATURE	Novi Guides, Inc.	1000000	0.0000000000000000000000000000000000000	, ,	13012010	00 00 00 00 00 00 00 00 00 00 00 00 00	Social	Sovi Guides, Iria.
	ELECTRONIC PROGRAM QUIDE WITH RELATED PROGRAM SEARCH FEATURE	Boyl Ouides Inc.	11300000	140400200			3	To assume	Boyl Guides, Inc.
	SYSTEMS AND METHODS FOR RESOLVING AMBIGUOUS TERMS IN SOCIAL CHATTER BASED ON A USER PROFILE	Boyl Guides Inc.	11/20/2010	02/06/2005	6 965 746		11/20/10/10	100 000	Povi Guides, Inc.
	SYSTEMS AND METHODS FOR RESOLVING AMBIGUOUS TERMS IN SOCIAL CHATTER BASED ON A USER PROFILE		01/30/2035	BIDZIZOVA	10,341,447	05/1//2010	05/3/2/2017 20100138280	Dansed Issued	Roy Guides, Inc.
	SYSTEMS AND METHODS FOR RESOLVING AMBIGUOUS TERMS IN SOCIAL CHATTER BASED ON A USER PROFILE	Royl Guides, Inc.	04 200002				-	Issued	Roy Guides, Inc.
	GESTURE CONTROL BASED ON PROSTHETIC NERVE SIGNAL DETECTION	Royl Guides, Inc.	01/30/2000	13050017	0 0	000000000000000000000000000000000000000		Is some	Royl Guides, Inc.
	METHODS AND SYSTEMS FOR GENERATING HOLOGRAPHIC ANIMATIONS	Desident Line	04.000.000	225555		L	_		Dove Cuiden Inc
	METHODS AND SYSTEMS FOR GENERATING HOLOGRAPHIC ANIMATIONS	Provi Cuides Inc					-	0	Box Guides Inc
	ENHANCED INTERACTIVE PROGRAM GUIDE	Royi Guides Inc	07/06/2036	05/01/2018	6 9 959 658	09/01/2016	02/26/2015 20160253835	US   Issued   144821 968	Royi Guides Inc
	SYSTEMS AND METHODS FOR DISPLAYING MEDIA ASSETS ASSOCIATED WITH HOLOGRAPHIC STRUCTURES	Donal College	44.00000	02555002	4 574 577	0.000	053233004	9	Doyl Cuidon Inc
	SYSTEMS AND METHODS FOR DISPLAYING MEDIA ASSETS ASSOCIATED WITH HOLOGRAPHIC STRUCTURES	Royi Guides Inc						Pending	Royl Guides Inc
	SYSTEMS AND METHODS FOR ENHANCING SEARCH RESULTS BY WAY OF UPDATING SEARCH INDICES	Rovi Guides, Inc.	08/25/2035	10/16/2018	6 10.101.816			Issued	Royi Guides, Inc.
	SYSTEMS AND METHODS FOR ENHANCING SEARCH RESULTS BY WAY OF UPDATING SEARCH INDICES	Rovi Guides, Inc.			1	06/06/2019	11/26/2018 20190171661	Pending	Rovi Guides, Inc.
	GISTERS AND RETRICAS FOR THE INTORNO PERSON DESCRIPTION TO SERVE RESOLUTION OF FOR LINE OF THE INTORNO PERSON DESCRIPTION DE	Rovi Guides, Inc.	07/27/2036	11/27/2018	10,140,299	06/30/2016	02/27/2015 2016018866	US Issued 14/634,678	Rovi Guides, Inc.
R	OVORTERO AND METHODO FOR DE EXTANMADO MISTANIFED DE ADOLIDEO III TO DAVIANO DE IDED ODENERO CARROLI DE ENTRE O LA CARROLI DE CARROLI DECAR.	Rovi Guides, Inc.	10/15/2035	10/17/2017	6 9,792,286	8 06/30/201	02/27/2015 20160188673	US Issued 14/634,681	Rovi Guides, Inc.
	OVOTEVIO AND METUADO DETERMINANO MARTALED A MEDATION OTATEMENT AND HEOTO A CHORDING DO BASTO HEDV	Rovi Guides, Inc.			8	08/16/2018	12/22/2017 20180232372	US Pending 15/852,589	Rovi Guides, Inc.
E	SYSTEMS AND METHODS FOR DETERMINING WHETHER A NEGATION STATEMENT APPLIES TO A CURRENT OR PAST QUERY	Rovi Guides, Inc.	08/23/2035	12/26/2017	9,852,136	06/23/2016	12/23/2014 20160179801	US Issued 14/581,163	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR MODIFICAL SECONDS OF	Rovi Guides, Inc.	12/23/2034	08/28/2018	6 10,063,901	06/23/2016	12/23/2014 20160182934	US Issued 14/580,495	Rovi Guides, Inc.
: (	SYSTEMS AND METHODS FOR MANAGING ACCESS TO MEDIA ASSETS BASED ON A PROJECTED LOCATION OF A USER	Rovi Guides, Inc.					06/23/2019	US Pending 16/549,172	Rovi Guides, Inc.
<b>)</b> 5	SYSTEMS AND METHODS FOR MANAGING ACCESS TO MEDIA ASSETS BASED ON A PROJECTED LOCATION OF A USER	Rovi Guides, Inc.	07/15/2036	10/08/2019	10,438,009	06/23/2016	12/23/2014 20160180108	US Issued 14/580,365	Rovi Guides, Inc.
F 53	SYSTEMS AND METHODS FOR AUTOMATICALLY CONTROLLING MEDIA ASSET PLAYBACK IN A VEHICLE	Rovi Guides, Inc.	12/09/2034	02/21/2017	9,578,276	06/09/2016	12/09/2014 20160165174	US Issued 14/564,422	Rovi Guides, Inc.
o <b>,</b> 4:	ONLINE SCHEDULE SYSTEM WITH PERSONALIZATION FEATURES	Rovi Guides, Inc.	11/09/2019	11/14/2017	9,820,001	03/06/2014	08/08/2013 2014006867	US Issued 13/962,800	Rovi Guides, Inc.
\ 58	ON-LINE SCHEDULE SYSTEM WITH PERSONALIZATION FEATURES	Rovi Guides, Inc.	07/26/2021	09/17/2013	18 8,539,044	11/06/2008	07/15/2008 20080275914	US Issued 12/173,690	Row Guides, Inc.
Γ <b>Ε</b>	ON-LINE SCHEDULE SYSTEM WITH PERSONALIZATION FEATURES	Rovi Guides, Inc.	11/09/2019	01/16/2007	7,165,098		11/09/1999	US Issued 09/437,304	Rovi Guides, Inc.
E F	CUSTOMIZED THREE DIMENSIONAL (8D) PRINTING OF MEDIA-RELATED OBJECTS	Rovi Guides, Inc.	07/23/2037	10/22/2019	10,449,732	9 06/30/2016	12/30/2014 20160185043	US Issued 14/586,640	Rovi Guides, Inc.
IT R/	METHODS AND SYSTEMS FOR PROVIDING SERENDIPITOUS RECOMMENDATIONS	Rovi Guides, Inc.	04/26/2035		-		<b>.</b>	Issued	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR PRESENTING INFORMATION ABOUT MULTIPLE MEDIA ASSETS	Rovi Guides, Inc.	12/23/2034	10/01/2019	_	8 08/06/2018	05/01/2018 20180255348	Issued 1	Rovi Guides, Inc.
<b>/</b> 11	METHODS AND SYSTEMS FOR PRESENTING INFORMATION ABOUT MULTIPLE MEDIA ASSETS	Rovi Guides, Inc.	02/05/2035	06/05/2018		06/23/2016	12/23/2014 20160182962	US Issued 14/581,625	Rovi Guides, Inc.
E:	METHODS AND SYSTEMS FOR PRESENTING INFORMATION ABOUT MEDIA ASSETS	Rovi Guides, Inc.	12/23/2034	12/26/2017	100			Issued	Rovi Guides, Inc.
0	SYSTEMS AND METHODS FOR FILTERING TECHNIQUES USING METADATA AND USAGE DATA ANALYSIS	Rovi Guides, Inc.	05/22/2037	05/14/2019		06/23/2016	12/22/2014 20160179950	Issued	Rovi Guides, Inc.
8	SYSTEMS AND METHODS FOR IMPROVING SPEECH RECOGNITION PERFORMANCE BY GENERATING COMBINED INTERPRETATIONS	Rovi Guides, Inc.				06/23/2016	12/22/2014 20160180840	Pending 1	Rovi Guides, Inc.
34	METHODS AND SYSTEMS FOR GENERATING CLUSTER-BASED SEARCH RESULTS	Rovi Guides, Inc.			8	07/19/2018	02/12/2018 20180203861	US Pending 15/894,725	Rovi Guides, Inc.
1	METHODS AND SYSTEMS FOR GENERATING CLUSTER-BASED SEARCH RESULTS	Rovi Guides, Inc.	04/09/2036	02/13/2018	9,892,167		03/31/2015 20160292159	US Issued 14/675,290	Rovi Guides, Inc.

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	METHODS AND SYSTEMS FOR AUTOMATICALLY ADJUSTING PARENTAL CONTROLS	Rovi Guides, Inc.	09/18/2035	05/15/2018	9,973,502	03/23/2017	09/18/2015 20170085569	US Issued 14/658,258	Roy Guides, Inc.
	METHODS AND SYSTEMS FOR IMPLEMENTING PARENTAL CONTROLS	Royi Guides, Inc.				02/07/2019	0/11/2018 20190042785	US Pending 16/158,046	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR IMPLEMENTING PARENTAL CONTROLS	Rovi Guides, Inc.	11/02/2035	11/13/2018	10,127,398	03/23/2017	19/1 8/2015 20170083715	US Issued 14/858,255	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR ADJUSTING THE PRIORITY OF MEDIA ASSETS SCHEDULED TO BE RECORDED	Rovi Guides, Inc.					09/04/2019	US   Pending   16/560,436	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR ADJUSTING THE PRIORITY OF MEDIA ASSETS SCHEDULED TO BE RECORDED	Rovi Guides, Inc.	08/30/2035	10/22/2019	10,455,288	05/10/2018	1/15/2017 20180132001	Issued 15/813,773	
	SYSTEMS AND METHODS FOR ADJUSTING THE PRIORITY OF MEDIA ASSETS SCHEDULED TO BE RECORDED	Rovi Guides, Inc.	11/24/2035	12/19/2017	9,848,242	03/30/2017	09/30/2015 20170094355	US Issued 14/870,387	
	METHODS AND SYSTEMS FOR SELECTING A PREFERRED VIEWPOINT FOR MEDIA ASSETS	Ravi Guides, Inc.				05/18/2017	L	Pending 14/944,163	
	SYSTEMS AND METHODS FOR IDENTIFYING A SOURCE OF MEDIA CONTENT BASED ON A LOG OF CONTENT IDENTIFIERS	Rovi Guides, Inc.	09/28/2035	07/04/2017	9,699,504	03/30/2017	19/28/2015 20170094363	US Issued 14/867,664	Royl Guides, Inc.
	SYSTEMS AND METHODS FOR IDENTIFYING A SOURCE OF MEDIA CONTENT BASED ON A LOG OF FINGERPRINTS	Rovi Guides, Inc.	09/28/2035	12/26/2017	9,854,304	03/30/2017	8/28/2015 20170084347	Issued	
	METHODS AND SYSTEMS FOR PLAYING MEDIA	Rovi Guides, Inc.	08/22/2035	12/25/2018	10,165,329	04/2//2017	1/0 //2016   201/0118523	Issued	
	METHODS AND SYSTEMS FOR PLAYING MEDIA	ROVI Guides, Inc.	08/22/2035	12/13/2016	8,021,400		-	ISSUBO 14/801,332	
	METHODS AND SYSTEMS FOR IMPLEMENTING A LOCKED MODE FOR VIEWING MEDIA ASSETS	ROVI Guides, Inc.	333333333333333333333333333333333333333	40	200	BIDZICZICO	1714/2016 20180156818	Fending 16/190,332	
	METHODS AND SYSTEMS FOR IMPLEMENTING A LOCKED MODE FOR VIEWING MEDIA ASSETS	Covi Guides, inc.	00/30/2000	0 200	10,111,012	on on one	-	50000	
	METHODS AND SYSTEMS FOR TARGETED ADVERTISING USING MACHINE LEARNING TECHNIQUES	ROVI Guides, Inc.				7.07/00/090	203/2015 20170161772	rending	
	SYSTEMS AND METHODS FOR FINGERPRINTING TO TRACK DEVICE USAGE	NOVI GUIDES, INC.	11/10/2000	1102017	8,018,890	1102112040	0/21/2015 20170118512	Suba	
	SYSTEMS AND METHODS FOR IDENTIFYING A SOURCE OF A USER INTERFACE FROM A FINGERPRINT OF THE USER INTERFACE	NOW GUIDES, I'm	10/2/12000	00202010	10,300,300	040100000000000000000000000000000000000		8000	
	SYSTEMS AND METHODS FOR IDENTIFYING A SOURCE OF A USER INTERFACE FROM A FINGERPRINT OF THE USER INTERFACE	ROYI Guides, Inc.	10/21/2035	7.002/8/1/2/1	8,848,237	04/2//2/1/		Issued	
	SYSTEMS AND METHODS FOR IDENTIFYING CONTENT CORRESPONDING TO A LANGUAGE SPOKEN IN A HOUSEHOLD	Royl Guides, Inc.					0/31/2018	US Pending 16/17/2012	
	SYSTEMS AND METHODS FOR IDENTIFYING CONTENT CORRESPONDING TO A LANGUAGE SPOKEN IN A HOUSEHOLD	ROYI Guides, Inc.	0.02172770	112002018	10,134,386	71.02/92/10	772112010 ZUT710ZUT5	ISSUBO	
	SYSTEMS AND METHODS FOR DETERMINING MEANING OF CULTURAL GESTURES BASED ON VOICE DETECTION	ROVI Guides, Inc.				11/19/2010		Bulling	
	SYSTEMS AND METHODS FOR DETERMINING MEANING OF CULTURAL GESTURES BASED ON VOICE DETECTION	ROYI Guides, Inc.	01/0//2036	BIDZIVUB	10,043,000	7.02/20/20		Issued	
	SYSTEMS AND METHODS FOR MIXING MODELS TO OPTIMIZE MEDIA PLACEMENT	Novi Guides, inc.	11/1/2000	0.00000	9,700,00	DIOZIZZIZI	7000005 20100373782	Sound	
	METHODS AND SYSTEM FOR PRESENTING SEARCH RESULTS	Guides,	1	200000	300000	100000000000000000000000000000000000000	٠,	100000 and 000000 and 0000000000000000000	
	METHODS AND SYSTEM FOR PRESENTING SEARCH RESULTS	Boxi Criides Inc				10/10/2010	-	Dandling 18/288 188	
	METHODS AND SYSTEM FOR PRESENTING SEARCH RESULTS	Royi Guides, Inc.	06/30/2035	05/28/2019	10.306.337	01/03/2019	07/02/2018 20190007755	Issued 16/025.524	
	METHODS AND SYSTEMS FOR MANAGING CONTENT SUBSCRIPTION DATA	Royi Guides, Inc.	06/30/2035	08/21/2018	10.057.659	01/05/2017		Issued 14/754.864	
	METHODS AND SYSTEMS FOR MONITORING CONTENT SUBSCRIPTION USAGE	Gilides .				9100/2030	01/03/2016 20160158902	Dending 18/229 108	
	METHODS AND SYSTEMS FOR MANAGING CONTENT SUBSCRIPTION DATA	Rovi Guides, Inc.	10/30/2035	01/08/2019	10.178.421	05/04/2017		Issued	
	METHODS AND SYSTEMS FOR MANAGING CONTENT SUBSCRIPTION DATA	Rayi Guides, Inc.				03/15/2018	1/03/2017 20180077127	US Pending 15/803,138	Royi Guides, Inc.
	METHODS AND SYSTEMS FOR MANAGING MEDIA SUBSCRIPTIONS	David Outdoor Inc	on one one one	11070017	0 643 300	0500470047	02000045 00470406644	Lie Trained 44/000 020	
	METHODS AND SYSTEMS FOR MANAGING MEDIA SUBSCRIPTIONS	Double Desiration				05/46/2010		Dending 18/20/ 450	
	METHODS AND SYSTEMS FOR MEDIA CONTENT AGGREGATION	Provi Cuides Inc	000000000000000000000000000000000000000	00000000	10 005 080	03/30/2017	-	14/866 015	
	SYSTEM AND METHODS FOR STIMULATING SENSES OF USERS OF A MEDIA GUIDANCE APPLICATION	Rovi Guides Inc	09/25/2035	06/12/2018	9 998 793	03/30/2017		Issued 14/866 052	
	SYSTEMS AND METHODS FOR DETECTING AND ACTING ON EASTER EGGS HIDDENIN MEDIA ASSETS	Rovi Guides, Inc.	09/10/2035	10/10/2017	9,788,056	12/29/2016	16/26/2015 20160381415	Issued	
R		Rovi Guides, Inc.	06/26/2035	02/21/2017	9,578,393	12/29/2016	16/26/2015 20160381434	Issued 1	
EI	SYSTEMS AND METHODS FOR AUTOMATIC FORMATTING OF IMAGES FOR MEDIA ASSETS BASED ON PREVALENCE	Rovi Quides Inc	07/31/2035	11/20/2018	10 136 170	12/22/2016		Supplement of the supplement o	
	SYSTEMS AND METHODS FOR AUTOMATIC FORMATTING OF IMAGES FOR MEDIA ASSETS BASED ON USER PROFILE	Royi Guides Inc	25.UC/9C/9U	03/07/2017	0 501 350	9100/20/01	18/26/2015 20160381420	US Resulted 14/750 204	Box Guides Inc
	METHODS AND SYSTEMS FOR SUGGESTING ADDITIONAL CONTENT	Pavi Cuides, inc.	001012000	00192010	10,000,420	12/22/2010	01 0/2010 2010007518#	D South	
0:	METHODS AND SYSTEMS FOR CUSTOMIZING SKIP-FORWARD FUNCTIONALITY	Royi Guides, Inc.				04/25/2019		Pending	
53	METHODS AND SYSTEMS FOR CUSTOMIZING SKIP-FORWARD FUNCTIONALITY	Royi Guides, Inc.	07/09/2035	9102380710	10,178,344	7.102/401/10	-	Issued 14/789,593	
P,	METHOD FOR ENHANCING A USER VIEWING EXPERIENCE WHEN CONSUMING A SEQUENCE OF MEDIA	Ravi Guides, Inc.					16/18/2019	Pending 16/444,411	
۸ - 5	METHOD FOR ENHANCING A USER VIEWING EXPERIENCE WHEN CONSUMING A SEQUENCE OF MEDIA	Rovi Guides, Inc.	07/31/2035	08/06/2019	10,375,443	02/02/2017	37/31/2015 20170034578	US Issued 14/815,119	Rovi Guides, Inc.
FE B	SYSTEMS AND METHODS FOR SHOWING MEDIA ASSET CONSUMPTION HISTORY	Rovi Guides, Inc.	06/11/2035	02/07/2017	9,565,480	12/15/2016		Issued 14/736,466	
FI	SYSTEMS AND METHODS FOR ARRANGING CONTEXTUALLY RELATED MEDIA ASSETS	Rovi Guides, Inc.				04/25/2019		Pending 16/216,208	
IT R/	SYSTEMS AND METHODS FOR ARRANGING CONTEXTUALLY RELATED MEDIA ASSETS	Rovi Guides, Inc.	10/12/2036	01/08/2019	10,176,178	12/22/2016	6/17/2015 20160371257	Issued	
•	METHODS AND SYSTEMS FOR RECOMMENDING A DISPLAY DEVICE FOR MEDIA CONSUMPTION	Rovi Guides, Inc.	05/19/2035	08/12/2017	9,762,945	11/24/2016	- 51	Issued 14/716,576	
<u> </u>	SYSTEMS AND METHODS FOR PROVIDING AUTOMATIC CONTENT RECOGNITION TO VERIFY AFFILIATE PROGRAMMING	Rovi Guides, Inc.	05/22/2035	08/01/2017	9,721,072	10/20/2016	20160306952	US Issued 15/146,466	Rovi Guides, Inc.
<b>=</b> :	SYSTEMS AND METHODS FOR PROVIDING AUTOMATIC CONTENT RECOGNITION TO VERIFY AFFILIATE PROGRAMMING	Rovi Guides, Inc.	05/22/2035	05/24/2016	9,351,025	10/20/2016	-	Issued 14/720,106	
Q	SYSTEMS AND METHODS FOR CONTROLLING USER EQUIPMENT	Rovi Guides, Inc.	04/30/2035	08/16/2016	9,420,326		$\rightarrow$	Issued 14/700,721	
8	SYSTEMS AND METHODS FOR AUGMENTING A VIEWING ENVIRONMENT OF USERS	Rovi Guides, Inc.	04/29/2035	06/19/2018	10,003,778	11/03/2016	04/29/2015 20160323552	Issued 14/699,883	
3!	SYSTEMS AND METHODS FOR ENHANCING VIEWING EXPERIENCES OF USERS	Rovi Guides, Inc.	04/29/2035	12/04/2018	10,147,388	11/03/2016	04/29/2015 20160322018		
5	SWART MECHANISM FOR BLOCKING MEDIA RESPONSIVE TO USER ENVIRONMENT	Rovi Guides, Inc.	04/28/2035	04/24/2018	9,955,218	11/03/2016	-	Issued 14/697,920	
					:		-		

	METHODS AND SYSTEMS FOR EFFICIENTLY DOWNLOADING MEDIA ASSETS	Rovi Guides, Inc.				10/05/2017	20170289591	Pending 15/087,214	Us	Rovi Guides, Inc.
	METHODS AND SYSTEMS OF FACILITATING SHARING OF INFORMATION AMONG SERVICE PROVIDERS	Rovi Guides, Inc.					04/25/2019	Pending 16/394,581	US	Rovi Guides, Inc.
	METHODS AND SYSTEMS OF FACILITATING SHARING OF INFORMATION AMONG SERVICE PROVIDERS	Rovi Guides, Inc.	03/22/2036	05/21/2019	10,299,006	08/28/2017	20170280186	Issued 15/077,462	SU	Rovi Guides, Inc.
	METHODS AND SYSTEMS OF RECOMMENDING MEDIA ASSETS TO USERS VIEWING OVER-THE-TOP CONTENT	Rovi Guides, Inc.	03/22/2036	09/26/2017	9,774,913	09/28/2017	03/22/2016 20170280195	Issued 15/077,320	US	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR RECORDING BROADCAST PROGRAMS THAT WILL BE MISSED DUE TO TRAVEL DELAYS	Rovi Guides, Inc.				08/17/2017	02/12/2016   20170238064	Pending 15/042,828	US	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR RECORDING MEDIA ASSETS	Rovi Guides, Inc.					07/15/2019	Pending 16/512,190	US	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR RECORDING MEDIA ASSETS	Rovi Guides, Inc.	06/09/2036	07/23/2019	10,362,355	09/28/2017	20170280181	Issued 15/078,436	Us	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR ALLOWING A USER TO ACCESS BLOCKED MEDIA	Rovi Guides, Inc.				09/05/2019	20190272385	Pending 16/408,918	us	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR ALLOWING A USER TO ACCESS BLOCKED MEDIA	Rovi Guides, Inc.	02/09/2036	06/25/2019	10,331,901	01/10/2019	08/27/2018 20190012477	Issued 16/113,546	SO	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR ALLOWING A USER TO ACCESS BLOCKED MEDIA	Rovi Guides, Inc.	05/17/2036	10/09/2018	10,095,876	08/10/2017		Issued 15/019,253	US	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR ASSOCIATING INPUT SCHEMES WITH PHYSICAL WORLD OBJECTS	Rovi Guides, Inc.				02/07/2019	10/02/2018 20190041977	Pending 16/149,478	US	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR ASSOCIATING INPUT SCHEMES WITH PHYSICAL WORLD OBJECTS	Rovi Guides, Inc.	02/09/2036	11/06/2018	10,120,437	08/03/2017		Issued 15/011,119	US	Royl Guides, Inc.
	SYSTEMS AND METHODS FOR GENERATING SMART RESPONSES FOR NATURAL LANGUAGE QUERIES	ROVI Guides, Inc.				81.07/92/160	-	Hending Ten 77,770	C.	Roy Guides, Inc.
	SYSTEMS AND METHODS FOR GENERATING SMART RESPONSES FOR INTURAL LANGUAGE QUERIES	Rovi Guides, Inc.	12/02/2036	12/25/2018	10,162,853	06/08/2017	N N	Issued 15/056,828	US	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR GENERATING SMART RESPONSES FOR NATURAL LANGUAGE QUERIES	Rovi Guides, Inc.				06/08/2017	١.		US	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR ENHANCING MEDIA VIEWING EXPERIENCES	Rovi Guides, Inc.	12/23/2035	04/04/2017	9,615,124		-	Issued 14/998,113	US	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR PERFORMING NOVLINEAR REACH OPTIMIZATION BY COMPUTING REACH VALUES	Rovi Guides, Inc.	05/24/2036	12/26/2017	9,854,327	11/30/2017	05/24/2016   20170347160	Issued 15/162,950	US	Rovi Guides, Inc.
	SYSTEM AND METHODS FOR ALERTING A USER CONSUMING MEDIA TO THE PROGRESS OF OTHERS CONSUMING MEDIA	Rovi Guides, Inc.				12/13/2018	07/25/2018 20180359139	Pending 16/045,499	US	Rovi Guides, Inc.
	SYSTEM AND METHODS FOR ALERTING A USER CONSUMING MEDIA TO THE PROGRESS OF OTHERS CONSUMING MEDIA	Rovi Guides, Inc.	07/27/2036	08/28/2018	10,063,408	06/22/2017	12/22/2015 20170180193	Issued 14/978,707	Sn	Rovi Guides, Inc.
	PRESENTING MEDIA GUIDANCE DATA BASED ON THE TRAJECTORY OF THE USER	Rovi Guides, Inc.	05/18/2036	09/25/2018	10,085,062	11/23/2017	05/18/2016 20170338458	Issued 15/158,104	Sn	Rovi Guides, Inc.
	RECOMMENDING A LOCATION BASED ON QUALITY OF SERVICE AT A LOCATION	Rovi Guides, Inc.	06/17/2036	08/27/2019	10,387,652	11/23/2017	20170338457	Issued   15/158,090	Sn	Rovi Guides, Inc.
	RECOMMENDING MEDIA CONTENT BASED ON QUALITY OF SERVICE AT A LOCATION	Rovi Guides, Inc.	05/18/2036	10/23/2018	10,110,959	11/23/2017	20170339467	Issued 15/158,080	US	Rovi Guides, Inc.
	RECOMMENDING MEDIA CONTENT BASED ON THE TRAJECTORY OF THE USER	Rovi Guides, Inc.	07/16/2036	12/25/2018	10,165,333	11/23/2017	05/18/2016   20170339466	Issued 15/158,063	US	Rovi Guides, Inc.
	METHODS AND SYSTEMS OF RECOMMENDING MEDIA ASSETS TO USERS BASED ON CONTENT OF OTHER MEDIA ASSETS	Rovi Guides, Inc.				04/12/2018	10/02/2017 20180103295	Pending   15/722,881	US	Rovi Guides, Inc.
	METHODS AND SYSTEMS OF RECOMMENDING MEDIA ASSETS TO USERS BASED ON CONTENT OF OTHER MEDIA ASSETS	Rovi Guides, Inc.	02/29/2036	10/03/2017	9,781,479	08/31/2017	٠.	Issued 15/056,578	US	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR SHARING COST OF A VIDEO-ONDEMAND SUBSCRIPTION WITH ANOTHER SUBSCRIBER	Rovi Guides, Inc.	12/21/2035	10/31/2017	9,807,247	06/22/2017	12/21/2015   20170180562	Issued 14/976,552	US	Rovi Guides, Inc.
	ELECTRONIC TELEMISION PROGRAM GUIDE SCHEDULE SYSTEM AND METHOD WITH DAT'A FEED ACCESS	Rovi Guides, Inc.	05/17/2020	04/19/2016	9,319,735	06/19/2003	N)	Issued 10/357,154	Sn	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR DISPLAYING A COUNTDOWN ALERT FOR CHILDREN	Rovi Guides, Inc.				10/18/2018	20180302678	Pending 15/948,221	sn	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR DISPLAYING A COUNTDOWN ALERT FOR CHILDREN	Rovi Guides, Inc.	12/21/2035	04/10/2018	9,942,611	06/22/2017	12/21/2015 20170180808	Issued 14/976,370	SU	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR DETECTING OVERLAPS BETWEEN CALENDAR APPOINTMENTS AND MEDIA ASSET TRANSMISSION TIMES	Rovi Guides, Inc.	12/23/2035	08/22/2017	9,743,139	06/29/2017	12/23/2015 20170188098	Issued 14/998,109	Us	Royl Guides, Inc.
	SYSTEMS AND METHODS FOR CONVERSATIONS WITH DEMCES ABOUT MEDIA USING INTERRUPTIONS AND CHANGES OF SUBJECTS	Ravi Guides, Inc.				08/01/2019	20190237064	Pending 16/379,312	Sn	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR CONVERSATIONS WITH DEVICES ABOUT MEDIA USING INTERRUPTIONS AND CHANGES OF SUBJECTS	Rovi Guides, Inc.	03/29/2036	06/04/2019	10,311,862	06/29/2017	12/23/2015 20170186425	Issued 14/757,910	US	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR ENABLING USERS TO RECEIVE ACCESS TO CONTENT IN CLOSED NETWORK	Rovi Guides, Inc.	10/30/2036	08/28/2018	10,063,621	08/03/2017	01/29/2016   20170223088	Issued 15/010,602	US	Rovi Guides, Inc.
F	SYSTEMS AND METHODS FOR IMPLEMENTING A TIMELINE SCROLLER TO NAVIGATE MEDIA ASSET IDENTIFIERS	Rovi Guides, Inc.	12/23/2035	06/18/2019	10,327,036	05/18/2017	12/23/2015   20170142491	Issued 14/998,121	US	Royl Guides, Inc.
RE	SYSTEMS AND METHODS FOR MANAGING AVAILABLE BANDWIDTH IN A HOUSEHOLD	Ravi Guides, Inc.				05/09/2019	11/19/2018 20190141375	Pending 16/195,042	sn	Rovi Guides, Inc.
ΕE	SYSTEMS AND METHODS FOR MANAGING AVAILABLE BANDWDTH IN A HOUSEHOLD	Rovi Guides, Inc.	12/01/2035	01/01/2019	10,171,853	01/25/2018		Issued 15/707,580	US	Rovi Guides, Inc.
ĒL	SYSTEMS AND METHODS FOR MANAGING AVAILABLE BANDWIDTH IN A HOUSEHOLD	Rovi Guides, Inc.	12/01/2035	10/24/2017	9,800,907	06/01/2017		Issued 14/955,345	SU	Rovi Guides, Inc.
-	SYSTEMS AND METHODS FOR SELECTIVELY TRIGOERING A BIOMETRIC INSTRUMENT TO TAKE MEASUREMENTS RELEVANT TO PRESENTLY CONSUMED MEDIA	Rovi Guides, Inc.	11/20/2035	12/20/2016	9,525,912		-	Issued 14/947,178	US	Rovi Guides, Inc.
0	METHODS AND SYSTEMS FOR DETERMINING ADVERTISING REACH BASED ON MACHINE LEARNING	Rovi Guides, Inc.				07/06/2007	12/30/2015 20170193546	Pending 14/985,150	US	Rovi Guides, Inc.
ا 53	SYSTEMS AND METHODS FOR GREATING RATED AND CURATED SPECTATOR FEEDS	Rovi Guides, Inc.				06/20/2019	_	Pending 16/251,511	Sn	Rovi Guides, Inc.
P/		Rovi Guides, Inc.	11/06/2035	01/22/2019	10,187,687	05/11/2017		Issued 14/934,370	Sn	Rovi Guides, Inc.
<b>∆</b> ⊺ 58	SYSTEMS AND METHODS FOR PROVIDING A CONTEXTUAL MENU WITH INFORMATION RELATED TO AN EMERGENCY ALERT	Rovi Guides, Inc.				12/13/2018	07/26/2018 20180359536	Pending 16/046,338	Us	Rovi Guides, Inc.
ΓE 3 Ι	SYSTEMS AND METHODS FOR PROVIDING A CONTEXTUAL MENU WITH INFORMATION RELATED TO AN EMERGENCY ALERT	Rovi Guides, Inc.	11/30/2035	08/28/2018	10,063,932	06/01/2017	11/30/2015 20170155965	Issued 14/954,162	US	Rovi Guides, Inc.
EN FI	METHODS AND SYSTEMS FOR BYPASSING PREEMPTIONS IN RECORDED MEDIA ASSETS	Rovi Guides, Inc.	12/16/2035	01/02/2018	9,860,587	06/22/2017	12/16/2015 20170180785	Issued 14/970,751	Us	Rovi Guides, Inc.
IT R/	METHODS AND SYSTEMS FOR BYPASSING PREEMPTIONS IN RECORDED MEDIA ASSETS	Rovi Guides, Inc.				06/22/2017		Pending  14/970,720	us	Rovi Guides, Inc.
<b>~</b> [	1 2	Rovi Guides, Inc.	10/30/2035	01/10/2017	9,544,656		$\vdash$	Issued 14/927,923	Sn	Royl Guides, Inc.
VΙΙ		Rovi Guides, Inc.				05/04/2017	10/30/2015 20170126831	Pending 14/927,681	sn	Rovi Guides, Inc.
Ε:	METHODS AND SYSTEMS FOR SELECTING WEDIA CONTENT BASED ON A LOCATION OF A USER RELATIVE TO A VIEWING AREA	Rovi Guides, Inc.	09/30/2035	01/15/2019	10,182,264	03/30/2017	20170094363	Issued 14/870,965		Royl Guides, Inc.
0	METHODS AND SYSTEMS FOR CUSTOMEING A MEDIA ASSET WITH FEEDBACK ON CUSTOMIZATION	Rovi Guides, Inc.	12/19/2035	06/11/2019	10,321,196	06/15/2017		Issued 14/963,517	sn	Rovi Guides, Inc.
8	METHOD AND SYSTEM FOR VERIFYING SCHEDULED MEDIA ASSETS	Rovi Guides, Inc.	09/28/2035	09/11/2018	10,075,751	03/30/2017	09/30/2015 20170094330	Issued 14/871,316	Sn	Rovi Guides, Inc.
36	SCENE-BY-SCENE VIEWER RATINGS	Rovi Guides, Inc.	09/29/2035	02/21/2017	9,578,379		09/29/2015	Issued 14/868,876	sn	Rovi Guides, Inc.
5	SYSTEMS AND METHODS TO COMBINE PROGRAMMING FROM MULTIPLE CHANNELS	Rovi Guides, Inc.	11/03/2035	12/18/2018	10,158,904	03/23/2017	20170085939	Issued 14/862,803	Sn	Rovi Guides, Inc.

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	Rovi Guides, Inc. SYST			3/2019	20190158912 05/23	11/26/2018 20	US Pending 16/199,972	Rovi Guides, Inc.
STEMS AND METHODS FOR AGGRESSIVELY RECORDING CONTENT WHEN A USER IS NOT AT HOME	Rovi Guides, Inc. SYST	18 06/05/2036	,674 11/27/2018	2/07/2017 10,142,674	20170353757 12/07	06/03/2016 20	US Issued 15/173,140	Rovi Guides, Inc.
METHODS AND SYSTEMS FOR RECOMMENDING TO A FIRST USER MEDIA ASSETS FOR INCLUSION IN A PLAYLIST FOR A SECOND USER BASED ON THE SECOND USER'S VIEWING ACTIVITY	Rovi Guides, Inc. METI			2/21/2017	170366861 12/21	06/21/2016 20	US   Pending   15/188,562	Rovi Guides, Inc.
YISTEMS AND METHODS FOR PROVIDING TIMELY AND RELEVANT SOCIAL MEDIA UPDATES FOR A PERSON OF INTEREST IN A MEDIA ASSET WHO IS UNNOWN SIMULTAMEOUSLY WITH THE MEDIA ASSET				10/03/2019	20190303417 10/03	06/03/2019 20	Pending	Rovi Guides, Inc.
YISTEMS AND METHODS FOR PROVIDING TIMELY AND RELEVANT SOOM, MEDIA UPDATES FOR A PERSON OF INTEREST IN A MEDIA ASSET WHO IS UNNOWN SIMULTANEOUS. Y WITH THE MEDIA ASSET		19 08/25/2037	1,972 07/16/2019	/30/2017 10,353,972			Issued	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR PROVIDING TIMELY AND RELEVANT SOCIAL MEDIA UPDATES FROM PERSONS RELATED TO A PERSON OF INTEREST IN A VIDEO SIMULTAMEDUSLY WITH THE VIDEO		18 06/25/2036	,623 07/10/2018	1/30/2017 10,019,623		05/26/2016 20	ssued	Rovi Guides, Inc.
MSTEMS AND METHODS FOR PROVIDING REALTIME PRESENTATION OF TIMELY SOCIAL CHATTER OF A PERSON OF INTEREST DEPICTED IN MEDIA SIMULTANEOUS WITH PRESENTATION OF THE MEDIA TISELY		17 05/26/2036	05/30/201	9,668,023		05/26/2016	Issued	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR ENSURING CONTINUED ACCESS TO MEDIA OF A PLAYLIST DESPITE GEOGRAPHIC CONTENT RESTRICTIONS						08/01/2019	Pending	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR ENSURING CONTINUED ACCESS TO MEDIA OF A PLAYLIST DESPITE GEOGRAPHIC CONTENT RESTRICTIONS		19 03/06/2037	,178 09/10/2019	1/04/2018 10,412,178	20180007148 01/02		Issued	Rovi Guides, Inc.
ISTEMS AND METHODS FOR ALLOHANG ACCESS TO A DIFFERENT VERSION OF THE MEDIA ASSET	9	Ľ				- N	Issued	Royl Guides, Inc.
SYSTEMS AND METHODS FOR ALLOWING ACCESS TO A DIFFERENT VERSION OF THE MEDIA ASSET		L				-	Ssued	Roy Guides, Inc.
SYSTEMS AND METHODS FOR NOTIFYING DIFFERENT USERS ABOUT MISSED CONTENT BY TALLORING CATCHUP SEGMENTS TO EACH DIFFERENT USER						_	Fending	Roy Guides, Inc.
SYSTEMS AND METHODS FOR NAVIGATING A MEDIA GUIDANCE APPLICATION USING GAZE CONTROL				10000		_	o o	Covi Guides, III.c.
SYSTEMS AND METHODS FOR ACCENTUATING CANDIDATE CHARACTERS OF STRINGS RELATING TO PROMOTIONAL CONTENT				1/146/2017	: 5	-	O Too	Roy Guides Inc
YSTEMS AND METHODS FOR ALERTING A USER AND DISPLAYING A DIFFERENT VERSION OF A SEGMENT OF A MEDIA ASSET		S. S		72017	20170277402	-	US Dending 15/082 760	Roy Guides Inc
SYSTEMS AND METHODS FOR PROVIDING DIFFERENT VERSIONS OF A MEDIA ASSET TO MULTIPLE DEVICES				9 601 953		04/28/2016	Ist in	Roy Guides Inc
METHODS AND SYSTEMS FOR SUBMITTING NATURAL LANGUAGE QUERIES TO INFORMATION RESOURCES	2			0.600	1000	-	Parion N	Roy Guides Inc.
YSTEM AND METHOD FOR LOCATING CONTENT RELATED TO A MEDIA ASSET				4/00/2019		-	0 0	Dovi Ouides Inc.
METHODS AND SYSTEMS FOR DISPLAYING ADDITIONAL CONTENT ON A HEADS UP DISPLAY DISPLAYING A VIRTUAL REALTY ENVIRONMENT				0.02/2010		-	o rending	Pox Guides Inc
ETHODS AND SYSTEMS FOR DISPLAYING ADDITIONAL CONTENT ON A HEADS UP DISPLAY DISPLAYING A MRTUAL REALTY ENVIRONMENT	>	04/2//2030	,376	10,025,376		-	Supu	Roy Guides, Inc.
ETHODS AND SYSTEMS FOR DISPLAYING ADDITIONAL CONTENT ON A HEADS UP DISPLAYING A VIRTUAL REALITY ENVIRONMENT	~			1 6		-	Ssued	Roy Guides, Inc.
JETHODS AND SYSTEMS FOR SELECTING SUPPLEMENTAL CONTENT FOR DISPLAY NEAR A USER DEVICE DURING PRESENTATION OF A MEDIA ASSET ON THE USER DEVICE	2			,	=		US Penang 15/16/2005	Roy Guides, Inc.
YISTEMS AND METHODS FOR ENABLING QUICK ACCESS TO MEDIA OPTIONS MATCHING A USER PROFILE				/30/2017			Pending	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR EMABLING QUICK MULTI-APPLICATION MENA ACCESS TO MEDIA OPTIONS	Rovi Guides, Inc.			10/24/2019		04/26/2019 20	US Pending 16/396,023	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR ENABLING QUICK MULTHAPPLICATION MENJ ACCESS TO MEDIA OPTIONS		19 06/01/2037	(112 06/11/201	V2017 10,318		_	Issued	Rovi Guides, Inc.
PROXIMATE TEMPLATE MATCHING FOR NATURAL LANGUAGE QUERIES	AP			08/29/2019		05/01/2019 20	US Pending 16/400,556	Rovi Guides, Inc.
APPROXIMATE TENPLATE MATCHING FOR NATURAL LANGUAGE QUERIES	Rovi Guides, Inc.	19 06/20/2036	,940 06/18/201	10,324,940		$\overline{}$	US Issued 16/020,618	Rovi Guides, Inc.
APPROXIMATE TEMPLATE MATCHING FOR NATURAL LANGUAGE QUERIES	Rovi Guides, Inc.	18 02/11/2037	360 07/31/2018	2/21/2017 10,037,360	20170364520 12/21	06/20/2016 20	US Issued 15/187,029	Rovi Guides, Inc.
ETHODS AND SYSTEMS FOR RECOMMENDING PROVIDERS OF MEDIA CONTENT TO USERS VIEWING OVER-THE-TOP CONTENT BASED ON QUALITY OF SERVICE	Rovi Guides, Inc. METI					05/23/2019	US Pending 16/420,648	Rovi Guides, Inc.
METHODS AND SYSTEMS FOR RECOMMENDING PROVIDERS OF MEDIA CONTENT TO USERS VIEWING OVER-THE-TOP CONTENT BASED ON QUALITY OF SERVICE		19 05/16/2036	,739 07/02/201	1/16/2017 10,341,739	20170332146 11/16	05/16/2016 20	Issued	Rovi Guides, Inc.
METHODS AND SYSTEMS FOR PRESENTING MEDIA LISTINGS BASED ON QUALITY OF SERVICE AT A USER DEVICE	Rovi Guides, Inc. METI			1/16/2017	20170332123 11/16	05/16/2016 20	Pending	Rovi Guides, Inc.
JETHODS AND SYSTEMS FOR DETERMINING USER RECOVERY TIMES TO REAL-LIFE EVENTS	Rovi Guides, Inc. METI			0/05/2017	20170286528 10/05	03/31/2016 20	US Pending 15/086,511	Rovi Guides, Inc.
ш	Rovi Guides, Inc. METI			0/05/2017	20170286425 10/05	03/31/2016 20	US Pending 15/086,504	Rovi Guides, Inc.
THODS AND SYSTEMS FOR DETERMINING HOW LONG TO MODIFY A USER PROFILE BASED ON A REAL-LIFE EVENT	Rovi Guides, Inc. METI			0/05/2017	20170286424 10/05	03/31/2016 20	US Pending 15/086,348	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR PROVIDING A PLAYLIST OF USER-RELEVANT CONTENT FOR PLAYBACK IN PLACE OF ADVERTISEMENT CONTENT	Rovi Guides, Inc. SYST	18 04/01/2036	,445 10/16/2018	10/05/2017 10,104,445	20170289641 10/05	04/01/2016 20	US Issued 15/088,403	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR FILTERING OF MEDIA DATA BASED ON TO-DO LIST	Rovi Guides, Inc. SYST			09/28/2017	20170277699 09/28	03/24/2016 20	US Pending 15/079,892	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR CONTROLLING PLAYBACK OF A MEDIA ASSET USING A TOUCH SCREEN	Ravi Guides, Inc. SYST			V05/2017	20170285860 10/05	03/31/2016 20	US Pending 15/087,444	Rovi Guides, Inc.
JETHODS AND SYSTEMS FOR AGGREGATING DATA FROM WEBPAGES USING PATH ATTRIBUTES	Rovi Guides, Inc. METI			8/31/2017	20170249319 08/31	06/03/2016 20	US Pending 15/173,056	Rovi Guides, Inc.
DDS AND SYSTEMS FOR PREVENTING A USER NIPUT DEVICE FROM CONTROLLING USER EQUIPMENT	Rovi Guides, Inc. METI	19 08/26/2036	01/01/2019	8/09/2018 10,172,006	20180227761 08/09	02/13/2018 20	US Issued 15/895,726	Rovi Guides, Inc.
DDS AND SYSTEMS FOR PREVENTING A USER INPUT DEVICE FROM CONTROLLING USER EQUIPMENT	Rovi Guides, Inc. METI	18 08/26/2036	389 04/03/2018	33/01/2018 9,936,389	20180063716 03/01	08/26/2016 20	US Issued 15/248,476	Rovi Guides, Inc.
MS AND METHODS FOR DETERMINAS CONTEXT SWITCHAS IN CONVERSATION							Pending	Rovi Guides, Inc.
WIS AND METHODS FOR DETERMINING CONTEXT SWITCHING IN COMERSATION	Rovi Guides, Inc. 8YST	18 06/08/2036	265 01/02/2018	2/14/2017 9,858,265	20170357635 12/14	06/08/2016 20	US Issued 15/176,516	Rovi Guides, Inc.
EMS AND METHODS FOR USING A TRAINED MODEL FOR DETERMINING WHETHER A QUERY COMPRISING MULTIPLE SEGMENTS RELATES TO AN INDIVIDUAL QUERY OR SEVERAL QUERIES.	Rovi Guides, Inc. SYST	12/23/2036	,967 07/24/2018	8/31/2017 10,031,961	0	02/29/2016 20	US Issued 15/056,012	Rovi Guides, Inc.
1998 AND METHODS FOR TRAINING A MODEL TO DETERMINE WHETHER A QUERY WITH MULTIPLE SEGMENTS COMPRISES MULTIPLE DISTINCT COMMANDS OR A COMBINED COMMAND	Rovi Guides, Inc. SYST			5/23/2019	20190155901 05/23	10/11/2018 20	US Pending 16/158,247	Rovi Guides, Inc.
MS AND METHODS FOR TRAINING A MODEL TO DETERNINE WHETHER A QUERY WITH MULTIPLE SEGMENTS COMPRISES MULTIPLE DISTINCT COMMANDS OR A COMBINED COMMAND		18 02/29/2036	;735 11/20/2018	8/31/2017 10,133,735	0	-	Issued	Rovi Guides, Inc.
EWS AND METHODS FOR IDENTIFYING A MEANING OF AN AMBIGUIOUS TERM IN A NATURAL LANGUAGE QUERY	Rovi Guides, Inc. SYST			7/04/2019	20180205348 07/04	12/27/2018 20	US Pending 16/233,311	Rovi Guides, Inc.
SINS AND METHODS FOR IDENTIFYING A MEANING OF AN AMBIGUOUS TERM IN A NATURAL LANGUAGE QUERY	Ravi Guides, Inc. SYST	19 02/03/2037	,470 01/01/2019	0/12/2017 10,169,470	170293690 10/12	04/11/2016 20	US Issued 15/095,833	Rovi Guides, Inc.
METHOD AND SYSTEMS FOR ENHANCING MEDIA VERMIG EXPERIENCES ON MULTIPLE DEVICES	Rovi Guides, Inc. METI	12/23/2035	,669 08/24/2019	12/28/2017 10,425,669	20170374401 12/28	06/12/2017 20	US Issued 15/620,026	Rovi Guides, Inc.
JETHOD AND SYSTEMS FOR ENHANCING MEDIA MEMING EXPERIENCES ON MULTIPLE DEVICES	Ravi Guides, Inc. METI	17 04/11/2036	165 06/13/201	9,681,165		04/11/2016	US Issued 15/095,868	Rovi Guides, Inc.
YYSTEMS AND METHODS FOR TRANSMITTING A PORTION OF A MEDIA ASSET CONTAINING AN OBJECT TO A FIRST USER	Rovi Guides, Inc. SYST	17 02/29/2036	10/31/201	1/2017 9,807,465	20170251271 08/31	02/28/2016 20	US Issued 15/056,724	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR PERFORMING AN ACTION BASED ON CONTEXT OF A FEATURE IN A MEDIA ASSET	Rovi Guides, Inc. SYST			0/11/2018	20180295425 10/11	06/07/2018 20	US Pending 16/002,666	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR PERFORMING AN ACTION BASED ON CONTEXT OF A FEATURE IN A MEDIA ASSET	Rovi Guides, Inc. SYST	18 04/16/2036	,461 07/10/2018	08/31/2017 10,021,461	20170251272 08/31	02/29/2016   20	US Issued 15/056,733	Rovi Guides, Inc.

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	CONTENS AND AUTHORS CODE DESCRIPTO A SECTION OF THE	Rovi Guides, Inc.				08/01/2019	2018 20190238928	06/28/2018	Us Pending 16/067,037	Royl Guides, Inc.
	ANSTELLAS AND METHODS FOR SELECTIVE I Y STORING SPECIEIC VERSIONS OF PRINCIPLE AND ASSETS BASED ON DEFERENCES INCHARACTERISTICS AND METHODS FOR SELECTIVE I Y STORING SPECIEIC VERSIONS OF PRINCIPLE AND ASSETS BASED ON DEFERENCES IN CHARACTERISTICS AND METHODS FOR SELECTIVE I Y STORING SPECIEIC VERSIONS OF PRINCIPLE AND ASSETS BASED ON DEFERENCES IN CHARACTERISTICS AND ASSETS BASED ON DEFERENCES AND ASSETS B	Rovi Guides, Inc.					/2018	06/26	US Pending 16/066,124	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR CORRECTING ERRORS IN CAPTION TEXT	Rovi Guides, Inc.				07/11/2019	5/28/2018 20190215545	06/28	US Pending 16/067,036	Rovi Guides, Inc.
	MEDIA SYSTEM WITH INTERNET CONTENT	Rovi Guides, Inc.	06/26/2020	10/27/2015	9,173,003	02/13/2014	0/22/2013 20140047476	10/22	US Issued 14/060,222	Rovi Guides, Inc.
	INTERACTIVE TELEVISION SYSTEM WITH NEWSOROUPS	Rovi Guides, Inc.	06/26/2020	11/18/2013	8,589,978	05/06/2010	_	08/15/	Issued	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR DISAMBICUATING A TERM BASED ON STATIC AND TEMPORAL INJUM, EDGE GRAPHS	Rovi Guides, Inc.				02/01/2018	2016 20180032506	07/29/2016	US Pending 15/223,698	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR AUTOMATICALLY EVALUATING AN AUDIO DESCRIPTION TRACK OF A MEDIA ASSET	Rovi Guides, Inc.				02/28/2019	<del></del>	10/24/2018	Pending	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR AUTOMATICALLY EVALUATING AN AUDIO DESCRIPTION TRACK OF A MEDIA ASSET	Rovi Guides, Inc.	07/29/2036	12/11/2018	10,154,308	02/01/2018	/2017 20180035163	08/24/2017	US Issued 15/885,126	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR AUTOMATICALLY EVALUATING AN AUDIO DESCRIPTION TRACK OF A MEDIA ASSET	Royi Guides, Inc.	07/28/2070	7.102/92/80	8,774,811		-	8270	Issued	Roy Guides, Inc.
	SYSTEMS AND METHODS FOR ADJUSTING DISPLAY CHARACTERISTICS	ROVI Guides, Inc.	UB/1U/2U30	11021021217	9,001,042		10/2016	Uar Li	Issued	Roy Guides, Inc.
	SYSTEMS AND METHODS FOR ADJUSTING DISPLAY SETTINGS TO REDUCE EYE STRAIN OF MULTIPLE VIEWERS	Roy Guides, Inc.	000000000000000000000000000000000000000	000000000000000000000000000000000000000	10,087,008	00/1/2010	71 1/2016 20100138434	200	Subd	Coxi Guides, inc.
	METHODS AND SYSTEMS FOR RECEIVING RATINGS FROM A THRD-PARTY SOURCE OF RATINGS	Roy Guides, inc.			000	07107018		BIOZOZOD	Bullipus	Royl Guides, mc
	METHODS AND SYSTEMS FOR RECEIVING RATINGS FROM A THIRD-PARTY SOURCE OF RATINGS	Roy Guides, Inc.	00/20/2000	0000000	0,000	97.00	-	100	50000	Soulding Fro
	METHODS AND SYSTEMS FOR RECEIVING RATINGS FROM A THRD-PARTY SOURCE OF RATINGS	Roy Guides, Inc.	00/20/20/20	1102002011	9,009,314		/2016	1 2 2 KBU	Sound	Royl Guides, Inc.
	SYSTEMS AND METHODS FOR DETERMINING AMEXECUTION PATH FOR A NATURAL LANGUAGE QUERY	ROVI GUIDES, Inc.	00/01/2007	8102/61/00	10,300,108	02/10/2010	20180052014	0772	Issued	NOW Guides, Inc.
	PROMOTIONAL PHILOSOPHY FOR A VIDEO-ON-DEMAND-RELATED INTERACTIVE DISPLAY WITHIN AN INTERACTIVE TELEVISION APPLICATION	Roy Guides, me		010200010	0,000,000	01071/2100		RDDZ/#1/RD	Sound	Royl Guides, Inc.
	SYSTEMS AND METHODS FOR MANAGING SERIES RECORDINGS AS A FUNCTION OF STORAGE	Royi Guides, Inc.		פרטבעוטשר	10,433,008	8107710180		DEVAU	Issued	Royl Guides, Inc.
	SYSTEMS AND METHODS FOR EXECUTING A SUPPLEMENTAL FUNCTION FOR A NATURAL LANGUAGE QUERY	Rovi Guides, Inc.					2019	0//25/2016	Pending	Roy Guides, Inc.
	SYSTEMS AND METHODS FOR EXECUTING A SUPPLEMENTAL FUNCTION FOR A NATURAL LANGUAGE QUERY	Rovi Guides, Inc.	11/17/2037	09/03/2019	10,402,439	02/01/2018	2016 20180032513	07/29/2016	Issued	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR DETERMINING USER ENGAGEMENT BASED ON USER INTERACTIONS DURING DIFFERENT ADVENTISEMENT SLOTS	Royi Guides, Inc.	12/2//2036	08/14/2018	10,051,326	8107/87/90		12/2/1	Issued	Roy Guides, Inc.
	METHODS AND SYSTEMS FOR DETERMINING USER ENGAGEMENT BASED ON USER INTERACTIONS DURING DIFFERENT TIME INTERVALS	Royi Guides, Inc.					-	0//08	Tending	Roy Guides, Inc.
	METHODS AND SYSTEMS FOR DETERMINING USER ENGAGEMENT BASED ON USER INTERACTIONS DURING DIFFERENT TIME INTERVALS	ROVI Guides, Inc.				B107//1/m1	2019 20190320225	BL07/2/1/Gn	OS Pending 16/410/105	Roy Guides, Inc.
	METHODS AND SYSTEMS FOR DETERMINING USER ENGAGEMENT BASED ON USER INTERACTIONS DURING DIFFERBUT TIME INTERVALS	Rovi Guides, Inc.	12/27/2036	07/02/2019	10,341,725	06/28/2018	٠.	12/27/	Issued	Rovi Guides, Inc.
	SYSTEM AND METHOD FOR EXPANDING A POOL OF USERS THAT ARE TARGETED FOR AN ADVERTISEMENT BASED ON ADVERTISEMENT EXPOSURE	Royi Guides, Inc.				04/05/2018	-	10/04	rending	Roy Guides, Inc.
	METHODS AND SYSTEMS FOR RECOMMENDING CONTENT RESTRICTIONS	Royi Guides, Inc.						Up/26	rending	Royl Guides, Inc.
	SYSTEMS AND METHODS FOR SUBMITTING USER SELECTED PROFILE INFORMATION TO AN ADVERTISER	Rovi Guides, Inc.				9102/10/80	2019 20190236651	04/12/2019	rending	Royl Guides, Inc.
	SYSTEMS AND METHODS FOR SUBMITTING USER SELECTED PROFILE INFORMATION TO AN ADVERTISER	Rovi Guides, Inc.				06/28/2018		12/27/	Pending	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR USING A HOME SECURITY SYSTEM TO ALERT A USER ABOUT A MEDIA EVENT	Ravi Guides, Inc.				02/15/2018	08/15/2016 20180048940	08/15	US Pending 15/236,624	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR RECREATING A REFERENCE IMAGE FROM A MEDIA ASSET	Rovi Guides, Inc.	11/27/2036	12/25/2018	10,163,008	04/05/2018	-	10/04	Issued	Rovi Guides, Inc.
	NTERACTIVE TELEVISION PROGRAM GUIDE SYSTEM AND METHOD WITH NICHE HUBS	Rovi Guides, Inc.	06/26/2020	06/30/2015	9,071,879	02/06/2014	20140040942	07/02	US Issued  13/933,592	Rovi Guides, Inc.
	INTERACTIVE TELEVISION PROGRAM GUIDE SYSTEM AND METHOD WITH NICHE HUBS	Rovi Guides, Inc.	12/04/2021	08/06/2013	8,505,049	01/15/2009	/2008 20090019485	09/1 8/2008	US Issued 12/212,873	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR ALERTING A USER TO USE AN ALTERNATE DEVICE TYPE TO ACCESS A MEDIA ASSET	Rovi Guides, Inc.	07/20/2036	08/28/2018	10,064,010	01/25/2018	20180027374	07/20	US Issued  15/215,252	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR INTELLIGENT AUDIO OUTPUT	Rovi Guides, Inc.					/2019	07/29/2019	US Pending 16/524,945	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR INTELLIGENT AUDIO OUTPUT	Rovi Guides, Inc.	07/20/2036	09/17/2019	10,419,879	09/27/2018	20180279079	05/25/2018	Issued	Rovi Guides, Inc.
RE	SYSTEMS AND METHODS FOR INTELLIGENT AUDIO OUTPUT	Rovi Guides, Inc.	07/20/2036	08/28/2018	10,064,009	01/25/2018		07/20/2016	Issued	Rovi Guides, Inc.
ΞE	SYSTEMS AND METHODS FOR OVERRIDING CROWD-SOURCED AUTO-SKIP COMMANDS BASED ON USER ACTIVITY	Rovi Guides, Inc.	06/21/2036	01/22/2019	10,187,696	08/16/2018	20180234735	04/09	Issued 1	Rovi Guides, Inc.
ΞL	SYSTEMS AND METHODS FOR OVERRIDING CROWD-SOURCED AUTO-SKIP COMMANDS BASED ON USER ACTIVITY	Rovi Guides, Inc.	06/21/2036	04/10/2018	9,942,610	12/21/2017	1/2016 20170366859	06/21/	US Issued  15/188,338	Rovi Guides, Inc.
:		Ravi Guides, Inc.					16/2019	10/16	US Pending 16/654,923	Rovi Guides, Inc.
0	METHODS AND SYSTEMS FOR ALERTING USERS REGARDING AVAILABILITY OF UNCONSUMED CONTENT	Rovi Guides, Inc.				01/04/2018	20180007155	06/29	US Pending 15/196,938	Rovi Guides, Inc.
[ 53	SYSTEMS AND METHODS FOR ACHIEVING AD AVOIDANCE BY SELECTIVELY SWITCHING MEDIA STREAMS	Rovi Guides, Inc.	06/29/2036	10/10/2017	9,788,024		2016	06/29	US Issued 15/197,348	Rovi Guides, Inc.
ر 4	SYSTEMS AND METHODS FOR STORING A MEDIA ASSET RESCHEDULED FOR TRANSMISSION FROM A DIFFERENT SOURCE	Rovi Guides, Inc.				02/22/2018	2016 20180054639	08/17/2016	US Pending 15/239,336	Rovi Guides, Inc.
۱ 58	SYSTEMS AND METHODS FOR PERFORMING AN ACTION BASED ON VIEWING POSITIONS OF OTHER USERS	Rovi Guides, Inc.				01/10/2019	22/2018 20190014379	08/22	US Pending 16/109,256	Rovi Guides, Inc.
TE 3 I	SYSTEMS AND METHODS FOR PERFORMING AN ACTION BASED ON VIEWING POSITIONS OF OTHER USERS	Rovi Guides, Inc.	06/28/2036	09/18/2018	10,080,052	12/28/2017	2016 20170374416	06/28/2016	US Issued 15/195,001	Rovi Guides, Inc.
EN F	SYSTEMS AND METHODS FOR MANAGING AN INTERACTIVE SESSION IN AN INTERACTIVE MEDIA GUIDANCE APPLICATION	Rovi Guides, Inc.				10/03/2019	20190306587	06/07	US Pending 16/434,884	Rovi Guides, Inc.
IT RA	SYSTEMS AND METHODS FOR MANAGING AN INTERACTIVE SESSION IN AN INTERACTIVE MEDIA GUIDANCE APPLICATION	Rovi Guides, Inc.	11/29/2036	07/23/2019	10,362,365	05/03/2018	2016 20180124473	11/03	US Issued 15/342,658	Rovi Guides, Inc.
<b>1</b>	SYSTEMS AND METHODS FOR PERFORMING ADAPTIVE SCHEDILING OF MEDIA ASSET RECORDINGS	Rovi Guides, Inc.				02/15/2018	2016 20180048936	08/12/2016	US Pending 15/236,132	Rovi Guides, Inc.
/1 E	SYSTEMS AND METHODS FOR PREVENTING CORRUPTION OF USER VIEWING PROFILES	Rovi Guides, Inc.				05/03/2018	2/28/2017 20180124460	12/28	US Pending 15/857,401	Rovi Guides, Inc.
≣:	SYSTEMS AND METHODS FOR PREVENTING CORRUPTION OF USER VIEWING PROFILES	Rovi Guides, Inc.	07/28/2036	01/02/2018	9,860,596		2016	07/28/2016	US Issued 15/221,780	Rovi Guides, Inc.
0		Rovi Guides, Inc.	_	+	$\dashv$	11/16/2017	2016 20170332140	07/01/2016	Pending	Rovi Guides, Inc.
8	SYSTEM AND METHOD FOR DELIVERING MISSED PORTIONS OF MEDIA ASSETS TO INTERESTED VIEWERS	Rovi Guides, Inc.				10/17/2019	2018 20180320224	06/21/2019	US Pending 16/448,262	Rovi Guides, Inc.
38	SYSTEM AND METHOD FOR DELIVERING MISSED PORTIONS OF MEDIA ASSETS TO INTERESTED VIEWERS	Rovi Guides, Inc.			+	11/16/2017	2016 20170332139	07/01/2016	US Pending 15/200,634	Rovi Guides, Inc.
}	SYSTEMS AND METHODS FOR RESIZING CONTENT BASED ON A RELATIVE IMPORTANCE OF THE CONTENT	Rovi Guides, Inc.				11/16/2017	20170332036	07/01	US   Pending   15/200,216	Rovi Guides, Inc.

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	METHODS AND SYSTEMS FOR CONTROLLING PRESENTATION OF MEDIA STREAMS	ROVI Guides, Inc.				ginz/anian	20180255371	12/10/2017 ZI	Tenang 19490,318	W Guides, Inc.
	SYSTEMS AND METHODS FOR ADDRESSING A CORRUPTED SEGMENT IN A MEDIA ASSET	ROVI Guides, Inc.						_	e di di	on Guides, Iric.
NEARLIER TIME, AND RECOMMENDING A SECOND MEDIA ASSET	SYSTEMS AND METHODS FOR DETECTING A REACTION BY A LISER TO A MEDIA ASSET TO WHICH THE LISER PREVIOUSLY REACTED AT A VEHARLIER TIME, AND RECOMMENDING A SECOND MEDIA ASSET TO THE	Royl Guides, Inc.				00/20/20/0	20100248219	1	9	by Suides, Inc.
S ON A SECOND DEVICE	SYSTEMS AND METHODS FOR ADJUSTING SUBTITLES SIZE ON A FIRST DEVICE AND CAUSING SIMULTANEOUS DISPLAY OF THE SUBTILES ON A SECOND DEVICE	Don't Children Inc				000000000000000000000000000000000000000	100000000	-	9	Outdoor Inc.
S ON A SECOND DEVICE	SYSTEMS AND METHODS FOR ADJUSTING SUBTITLES SIZE ON A FIRST DEVICE AND CAUSING SIMULTANEOUS DISPLAY OF THE SUBTITLES ON A SECOND DEVICE	Royl Guides Inc.		100000	1000000	05/23/2019	1190158929	11/14/2018 20	US Pending 16/190.737	ovi Guides Inc.
	SYSTEM AND METHODS FOR RECOMMENDING A MEDIA ASSET RELATING TO A CHARACTER UNKNOWN TO A USER	Royl Guides, Inc.	200	200	200	000000000000000000000000000000000000000	20180240177	_	9	ovi Guides, Iric.
	SYSTEM AND METHODS FOR RECOMMENDING A MEDIA ASSET RELATING TO A CHARACTER UNKNOWN TO A USER	Royl Guides, Inc.	03/03/2037	06/04/2019	10,313,756	8102/90/80	20180255354	-	Issued	ovi Guides, Inc.
	SYSTEMS AND METHODS FOR AUTOMATICALLY ENABLING SUBTITLES BASED ON DETECTING AN ACCENT	Royl Guides, Inc.	0 0000	0 0 0	0,102,200	000000000000000000000000000000000000000	000000	1	5000	vi Guides, iric.
	SYSTEMS AND METHODS FOR AUTOMATICALLY ENABLING SUBTITLES BASED ON DETECTING AN ACCENT	Royl Guides, Inc.	01/30/3037	01/15/2010	0,004,324	8100/00/90	20180220105	1	US ISSUED 15/8/18/26*	on Guides, Inc.
EVICES	SYSTEMS AND METHODS FOR LINKING SEGMENTS OF MEDIA GUIDANCE DATA FOR EFFICIENT OPERATION OF MEMORY CONSTRAINED DEVICES	Boul Guides Inc.	04.00.00.00	13080017	100 130 130 1			04/20/2047	To control	of Outdoor Inc.
	SYSTEMS AND METHODS FOR RETRIEVING SEGMENTED MEDIA GUIDANCE DATA	Royi Guides, Inc.						05/16/2019	Panding .	ovi Guides. Inc.
		Royi Guides, Inc.						-	Pending	py Guides. Inc.
	SYSTEMS AND METHODS FOR DISPLAYING SEGMENTS OF MEDIA GUIDANCE DATA	Rovi Guides, Inc.				07/18/2019	20190222883		Pending	vi Guides, Inc.
		Rovi Guides, Inc.	01/19/2037	01/22/2019	10,187,678	05/17/2018	20180139484	-	Issued	ovi Guides, Inc.
	SYSTEMS AND METHODS FOR DYNAMICALLY ADJUSTING MEDIA OUTPUT BASED ON PRESENCE DETECTION OF INDIVIDUALS	Rovi Guides, Inc.	09/21/2037	09/24/2019	10,423,979	07/05/2018	20180189826	_	Issued	วที่ Guides, Inc.
	SYSTEM AND METHOD FOR CLASSIFYING RECORDED CONTENT FOR DELETION	Rovi Guides, Inc.						-	Pending	ovi Guides, Inc.
	STS I EINS AND METHOUS FOR PERSONALIZED I IMING FOR AUVERTISEMENTS	Rovi Guides, Inc.				10/24/2019	20180327516	06/19/2019 20	US Pending 16/471,086	vi Guides, Inc.
NOT CORY	STOLEMS AND METHOUS FOR DEPOSALLIBED THAN OF TO LINESTOCKED SUITABLE FUR DISPLATING MEDIA ASSETS MALVING A SERVER QUERT	Rovi Guides, Inc.	+			07/05/2018	20180189837	01/05/2017 20	US Pending 15/399,232	vi Guides, Inc.
		Rovi Guides, Inc.				10/03/2019	20190303420	05/21/2019 20	US Pending 16/462,819	ovi Guides, Inc.
	STSTEMS AND METHOUS FOR SURTING FAVORITE CONTENT SOURCES	Rovi Guides, Inc.				08/22/2019	20180261056	04/22/2019 20	Us Pending 16/343,843	ovi Guides, Inc.
	PENSONAL IELEVISION CHANNEL STOLEM	Rovi Guides, Inc.						05/16/2019	Pending	วที่ Guides, Inc.
ON COMEST OF INTERNESS OF THE MEDIA ASSET ON DAY OF THE	THE PROPERTY OF THE PROPERTY O	Rovi Guides, Inc.	03/03/2020	08/10/2004	6.774,926			03/03/2000	US Issued 09/518,844	vi Guides, Inc.
ONICIONA CINA TESSSA AICEM BUT BO TSEGETINI BO TOEL BO NA	SO ENDRANCIM BO FLEG & SOLLTUNG AN AN IGENTO NO AGLESSOR FINENT OF BONDLING SOLLTUNG AGE SOLUTION OF THE MINE SOLUTION OF THE MINE SOLUTION OF THE SOLUTION OF	Rovi Guides, Inc.						06/05/2019	US Pending 16/466,758	vi Guides, Inc.
JSER AND ARE CONTEXTUALLY RELEVANT TO A PORTION OF A	SYSTEMS AND METHODS FOR DEPENATING FOR DISPLAY RECOMMENDATIONS THAT ARE TEMPORALLY RELEVANT TO ACTIVITIES OF A USER AND ARE CONTEXTUALLY RELEVANT TO A FORTON OF A MEDIA	Rovi Guides, Inc.				01/17/2019	20190020926	09/05/2018 20	US Pending 16/122,154	byl Guides, Inc.
ISER AND ARE CONTEXTUALLY RELEVANT TO A PORTION OF A	SYSTEMS MOMETHOD FOR DEPENATING FOR DISPLAY RECOMMENDATIONS THAT ARE TEMPORALLY RELEVANT TO ACTIVITIES OF A SIER AND ARE CONTEXTUALLY RELEVANT TO A PORTION OF A MEDIA A	Rovi Guides, Inc.	11/21/2036	10/09/2018	10,097,898	05/24/2018	20180146258	11/21/2016 20	US Issued 15/356,840	พ่ Guides, Inc.
DANCE APPLICATION	SYSTEMS AND METHODS FOR DISTINGUISHING VALID VOICE COMMANDS FROM FALSE VOICE COMMANDS IN AN INTERACTIVE MEDIA GUIDANCE APPLICATION	Rovi Guides, Inc.						06/07/2019	US Pending 16/467,733	ovi Guides, Inc.
	SYSTEMS AND METHODS FOR ALTERING NAVIGATION INSTRUCTIONS BASED ON THE CONSUMPTION TIME OF MEDIA CONTENT	Ravi Guides, Inc.						08/22/2019	US Pending 16/488,072	วที่ Guides, Inc.
	SYSTEMS AND METHODS FOR STORING PROGRAMS	Ravi Guides, Inc.						06/26/2018	US Pending 16/066,245	ovi Guides, Inc.
	SYSTEMS AND METHODS FOR STORING OFFISETS OF A RECORDED PROGRAM IN A NETWORK DVR	Rovi Guides, Inc.						06/20/2019	US Pending 16/472,189	งที่ Guides, Inc.
	INTERACTIVE PROGRAM GUIDE SYSTEM WITH MULTIPLE ACCOUNT PARENTAL CONTROL	Rovi Guides, Inc.	02/11/2022	07/26/2005	6,922,843			08/09/2000	US Issued 09/635,596	งฟ Guides, Inc.
	SYSTEMS AND METHODS FOR RESOLVING ADVERTISEMENT PLACEMENT CONFLICTS	Ravi Guides, Inc.				04/19/2018	20180108052	12/14/2016 20	US Pending 15/378,359	วที่ Guides, Inc.
	SYSTEMS AND METHODS FOR PREDICTIVE SPOLER PREVENTION IN MEDIA ASSETS BASED ON USER BEHAVIOR	Rovi Guides, Inc.	11/28/2036	09/03/2019	10,405,041	05/31/2018	20180152759	11/28/2016 20	US Issued 15/362,331	ovi Guides, Inc.
	SYSTEMS AND METHODS FOR CONTROLLING ACCESS TO MEDIA ASSETS USING TWO-FACTOR AUTHENTICATION	Rovi Guides, Inc.				08/08/2019	20190246170	06/26/2018 20	US  Pending  16/066,243	งที่ Guides, Inc.
	SYSTEMS AND METHODS FOR FLEXIBLY USING TRENDING TOPICS AS PARAMETERS FOR RECOMMENDING MEDIA ASSETS THAT ARE RELATED TO A VIEWED MEDIA ASSET	Rovi Guides, Inc.						06/26/2018	US   Pending   16/066,210	vi Guides, Inc.
RE	METHODS AND SYSTEMS FOR FILTERING MEDIA CONTENT	Ravi Guides, Inc.				10/17/2019	20190320236	06/25/2019 20	US Pending 16/451,276	ovi Guides, Inc.
	METHODS AND SYSTEMS FOR FILTERING MEDIA CONTENT	Ravi Guides, Inc.	02/10/2038	08/13/2019	10,382,825	03/08/2018	20180067946	_	Issued	ovi Guides, Inc.
	SYSTEMS AND METHODS FOR MODELING AUDIENCE STABILITY OF A MEDIA ASSET SERIES	Ravi Guides, Inc.				06/06/2019	20190174192	_	Pending	ovi Guides, Inc.
	SYSTEMS AND METHODS FOR MODELING AUDIENCE STABILITY OF A MEDIA ASSET SERIES	Royl Guides, Inc.	u i vauzuar	RIDZIIDII	10,171,000	0107/07/00	20100104170	Η.	Issued	on Guides, inc.
	SYSTEMS AND METHODS FOR RECOMMENDING AN ELECTRONIC DEVICE TO A USER BASED ON A USER'S DEVICE PROFILE	Ravi Guides, Inc.				07/05/2018	20180189856	٠.	Pending	ovi Guides, Inc.
	SYSTEMS AND METHODS FOR RECOMMENDING ELECTRONIC DEVICES BASED ON USER PURCHASE HABITS	Rovi Guides, Inc.				07/05/2018	20180189830	_	Pending	by Guides, Inc.
P	SYSTEMS AND METHODS FOR DETERMINING AUDIENCE ENGAGEMENT BASED ON USER MOTION	Ravi Guides, Inc.	01/05/2037	05/14/2019	10,291,958	07/19/2018	20180205990	_	Issued	ovi Guides, Inc.
A-	SYSTEMS AND METHODS FOR DETERMINING AUDIENCE ENGAGEMENT BASED ON USER MOTION	Rovi Guides, Inc.	01/05/2037	110202021	9,854,292			01/05/2017	Issued	ovi Guides, Inc.
FE	SYSTEM AND METHOD FOR GENERATING A CUSTOM SUMMARY OF UNCONSUMED PORTIONS OF A SERIES OF MEDIA ASSETS	Ravi Guides, Inc.						05/22/2019	US Pending 16/463,312	ovi Guides, Inc.
<u> </u>	METHODS AND SYSTEMS FOR DETERMINING DUPLICATION IN IMPRESSIONS DATA	Royl Guides, Inc.				05/17/2018	20180137541	11/17/2016 20	Pending	ovi Guides, Inc.
	SYSTEMS AND METHODS FOR CAUSING A USER TO MEW SECONDARY CONTENT THAT RELATES TO A MEDIA ASSET FROM WHICH A USER HAS SWITCHED AWAY	Royl Guides, Inc.				RIDZIBLIAN	20180222874	٠.	Tending	ovi Gulaes, Inc.
	SYSTEMS AND METHODS FOR CAUSING A USER TO VIEW SECONDARY CONTENT THAT RELATES TO A MEDIA ASSET FROM WHICH A USER HAS SIMTCHED AWAY	Rovi Guides, Inc.	10/25/2036	02/12/2019	10,205,977	11/01/2018	20180316852		Issued	vi Guides, Inc.
	SYSTEMS AND METHODS FOR CAUSING A USER TO VIEW SECONDARY CONTENT THAT RELATES TO A MEDIA ASSET FROM WHICH A USER HAS SWITCHED AWAY	des.	111/12/2030	BLOZVIDIGO	9,901,376	U4/26/2016	28701108102	-	Issued	ovi Guldes, Inc.
AASSET	SYSTEMS AND METHODS FOR SELECTING TYPE OF SECONDARY CONTENT TO PRESENT TO A SPECIFIC SUBSET OF VIEWERS OF A MEDIA ASSET	Royl Guides, Inc.				08/02/2018	20180220198	_	Pending	by Guides, Inc.
	SYSTEMS AND METHODS FOR PRESENTING BACKGROUND GRAPHICS FOR MEDIA ASSET IDENTIFIERS IDENTIFIED IN A USER DEFINED DATA STRUCTURE	Royl Guides, Inc.				03/08/2018	20180070128	_	Pending	vi Guides, Inc.
ON DETECTION OF AN EVENT	SYSTEMS AND METHODS FOR PROVIDING A SLOW MOTION VIDEO STREAM CONCURRENTLY WITH A NORMAL-SPEED VIDEO STREAM UPON DETECTION OF AN EVENT	Rovi Guides, Inc.							Pending	vi Guides, Inc.
	METHODS AND SYSTEMS FOR GENERATING A MEDIA CLIP LIBRARY	Guices, IIIc.								
		Dovi Cuidas Inc				06/28/2018	20180181566	12/27/2016 20	US Pending 15/391,314	pvi Guides, Inc.

	SYSTEMS AND METHODS FOR PROVIDING SUMMARIZED VIEWS OF A MEDIA ASSET IN A MULTI-MINDOW USER INTERFACE									$\vdash$	
		Royi Guides, Inc.	08/16/2037	08/28/2018	10.063.927			08/16/2017	15/678,593	US Issued	Royl Guides, Inc.
		Rovi Guides, Inc.				12/06/2018	20180352302	06/28/2018	Ng 16/022,292	US Pendi	Rovi Guides, Inc.
		Ravi Guides, Inc.	06/02/2037	07/31/2018	10,038,938			06/02/2017	15/612,465	US Issued	Rovi Guides, Inc.
		Rovi Guides, Inc.				08/22/2019	20190258667	05/01/2019	16/400,634	US Pendi	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR UPDATING A PRIORITY OF A MEDIA ASSET USING A CONTINUOUS LISTENING DEMCE	Rovi Guides, Inc.	08/09/2037	06/11/2019	10,318,578	11/29/2018	20180341703	05/23/2017	15/802,567	US Issued	Rovi Guides, Inc.
	WETHODS AND SYSTEMS FOR REPLYING TO QUERIES BASED ON INDEXED CONVERSATIONS AND CONTEXT	Rayl Guides, Inc.				01/31/2019	20190034525	07/26/2017	ng 15/660,399	US	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR PLAYING BACK INDEXED CONVERSATIONS BASED ON THE PRESENCE OF OTHER PEOPLE	Novi Galass, Ilia.				0	00004084	0112012011	-	0	Novi Galdes, III.c.
	SYSTEMS AND METHODS FOR GENERATING A VOLUME-BASED RESPONSE FOR MULTIPLE VOICE-OPERATED USER DEVICES	Royi Guides, Inc.				12/100/2010	20100348083	1107/70/90	+		Roy Guides, Inc.
	SYSTEMS AND METHODS FOR GENERATING A SET OF CUSTOM KEYWOODS BASED ON A MEDIA ASSET		***************************************		1000				-	μ.	
	SYSTEMS AND METHODS FOR GENERATING A SET OF CUSTOM KEYWORDS BASED ON A MEDIA ASSET	Royi Guides Inc.	05/23/2037	08/03/2019	10.405.062	12/27/2018	20180376222	06/19/2018	16/011 910	US Issued	Royl Guides Inc.
		Rovi Guides, Inc.	05/23/2037	07/17/2018	10,028,036			05/23/2017	-	┵	Rovi Guides, Inc.
		Rovi Guides, Inc.				06/27/2019	20190197012	12/26/2017	ng 15/854,167	US Pending	Rovi Guides, Inc.
		Rovi Guides, Inc.	06/20/2037	07/23/2019	10,362,361	12/20/2018	20180367860	06/20/2017	15/628,152	US Issued	Rovi Guides, Inc.
	0	Rovi Guides, Inc.				05/09/2019	20180141405	10/30/2018	16/175,544	US Pendi	Rovi Guides, Inc.
		Rovi Guides, Inc.	07/24/2037	12/04/2018	10,149,017			03/23/2018	15/934,082	US Issued	Rovi Guides, Inc.
		Rovi Guides, Inc.	07/24/2037	05/01/2018	9,961,410			07/24/2017	15/657,752	US Issued	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR MODIFYING SPELLING OF A LIST OF NAMES BASED ON A SCORE ASSOCIATED WITH A FIRST NAME	Rovi Guides, Inc.				11/08/2018	20180322193	05/03/2017	-	US Pending	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PRESENTING SEARCH RESULTS FROM MULTIPLE SOURCES	ROVI Guides, Inc.				10/26/2018	20180307760	04/18/2017	_	Co	Royl Guides, Inc.
E PERIOD BASED ON HISTORICAL	SYSTEMS AND METHODS FOR PRESENTING SUPPLEMENTAL INFORMATION RELATED TO AN ADVERTISEMENT CONSUMED ON A DIFFERENT DEVICE WITHIN A THRESHOLD TIME PERIOD BASED ON HISTORICAL.	COVI Guides, Inc.				01/02/2019	00000049	OG/GU/ZU17	g 15/05/09	Co Co	Novi Guides, Iric.
E PERIOD OF AN END OF A CORR	SYSTEMS AND METHODS FOR PRESENTING SUPPLEMENTAL INFORMATION RELATED TO AN ADMETISEMENT CONSUMED ON A DEFERENT DENGE WITHIN A THRESHOLD TIME PERIOD OF AN END OF A CORRECT	Doct Children				04/02/2010	0100005540	08/20/2017	-	IIO Opending	Dock Cuides Inc
	SYSTEMS AND METHODS FOR PRESENTING A SERVICE APPLICATION SELECTION WINDOW INCLUDING DYNAMIC ICONS	Provi Cuides Inc	911200000	47.00		OPPOCACIFO	00100005540	06/30/2017	5	0 ;	Park Guides Inc
	SYSTEMS AND METHODS FOR MODIFYING PLAYBACK OF A MEDIA ASSET BASED ON AN EVENT THAT WILL INTERRUPT PLAYBACK OF THE MEDIA ASSET	Royl Guides Inc	04/04/00/37	10/23/2018	10 110 939	10/05/0018	20180310044	04/24/2017		lis lisalisa	Roy Guides Inc
	SYSTEMS AND METHODS FOR MODIFYING PLAYBACK OF A MEDIA ASSET BASED ON AN EVENT THAT WILL INTERRUPT PLAYBACK OF THE MEDIA ASSET	Rovi Guides, Inc.	04/19/2037	06/18/2019	10.327.023	10/25/2018	20180310045	03/07/2018	15/914 048	US Issued	Royl Guides, Inc.
		Rovi Guides, Inc.	04/19/2037	04/17/2018	9,948,966			04/19/2017	15/491,634	US Issued	Rovi Guides, Inc.
		Rovi Guides, Inc.				10/25/2018	20180310071	03/01/2018	Ng 15/909,115	US Pending	Rovi Guides, Inc.
		Rovi Guides, Inc.	04/20/2037	04/10/2018	9,942,615			04/20/2017	15/492,468	US Issued	Rovi Guides, Inc.
		Rovi Guides, Inc.				12/20/2018	20180365651	06/15/2017	ng 15/623,871	US Pendi	Rovi Guides, Inc.
		Rovi Guides, Inc.						08/20/2019	16/545,201	US Pendi	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR CORRECTING A VOICE QUERY BASED ON A SUBSEQUENT VOICE QUERY WITH A LOWER PROMUNCIATION RATE	Rovi Guides, Inc.	03/20/2038	10/01/2019	10,430,449	10/04/2018	20180286390	03/28/2017	15/471,681	US Issued	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR CREATING A VIRTUAL CHANNEL FOR BINGE WATCHING	Rovi Guides, Inc.				01/10/2019	20190014367	06/29/2018	ng 16/023,140	US Pending	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR CREATING A VIRTUAL CHANNEL FOR BINGE WATCHING	Rovi Guides, Inc.	03/31/2037	07/31/2018	10,038,929			03/31/2017	15/475,633	US Issued	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR CREATING A WRITUAL CHANNEL FOR BINGS WATCHING	Rovi Guides, Inc.	03/31/2037	01/09/2018	9,866,888			03/31/2017	15/475,603	US Issued	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR RECOMMENDING MEDIA ASSETS BASED ON THE GEOGRAPHIC LOCATION AT WHICH THE MEDIA ASSETS ARE FREQUENTLY CONSUMED	Rovi Guides, Inc.				12/27/2018	20180376201	08/10/2018	ng 16/100,378	US Pendi	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR RECOMMENDING MEDIA ASSETS BASED ON THE GEOGRAPHIC LOCATION AT WHICH THE MEDIA ASSETS ARE FREQUENTLY CONSUMED	Royi Guides, Inc.	03/30/2037	10/02/2018	10,091,549	10/04/2018	20180288480	_	15/4/4,24/	US	Roy Guides, Inc.
	SYSTEMS AND METHODS FOR SYNCHRONIZING MEDIA ASSET PLAYBACK FROM MULTIPLE SOURCES	Rovi Guides, Inc.	03/17/2037	09/17/2019	10,418,794	09/20/2018	20180270516	_	15/462,206	US Issued	Rovi Guides, Inc.
	AUGMENTED REALITY CONTENT RECOMMENDATION	Royi Guides, Inc.				10/04/2018	20180288482	מוטבער העפט	Ng 15/9//,346	US Pending	Roy Guides, Inc.
RE	AUGMENTED REALITY CONTENT RECOMMENDATION	Rovi Guides, Inc.	03/30/2037	06/12/2018	9,998,790			03/30/2017	15/474,726	US Issued	Roy Guides, Inc.
E E	SYSTEMS AND METHODS FOR NAVIGATING MEDIA ASSETS	ROVI Guides, Inc.				10/04/2010	20100200480	U3/3W/2U1/	-62	_	Roy Guides, Inc.
Į Į	SYSTEMS AND METHODS FOR NAVIGATING CUSTOM MEDIA PRESENTATIONS	Dovi Guides, Inc.	no/ou/zuo/	08/10/2018	10,418,788	1000402010	20100200400	03/2/12/10	-		Post Cuides, Inc.
	SYSTEMS AND METHODS FOR NAVIGATING CUSTOM MEDIA PRESENTATIONS	Davidos Inc.	020000000000000000000000000000000000000	000075040	40.440.700	100040046	20100200100	020000000	45.007 404	100	Boyl Cuidos Inc
0	SYSTEM AND METHODS FOR DISAMBIGUATING AN AMBIGUOUS ENTITY IN A SEARCH QUERY BASED ON THE GAZE OF A USER	Royi Guides Inc	03/30/0037	05/01/2018	9 961 386	00000		02/30/2017	15/474 728	Name of the second	Roy Guides Inc
53	SYSTEM AND METHODS FOR DISAMBIQUATING AN AMBIGUOUS ENTITY IN A SEARCH QUERY BASED ON THE GAZE OF A USER	Royi Guides, Inc.	U4/14/2037	DIDZWZULI	10,142,000	1004/2010	20100200477	U3/3WZU1/	10/4/4,300	OS ISSUES	Roy Guides, Inc.
P.	SYSTEMS AND METHODS FOR CALCULATING A PREDICTED TIME WHEN A USER WILL BE EXPOSED TO A SPOLER OF A MEDIA ASSET	Royi Guides, Inc.						RLOZ/BL/RD	101480,480	OS PBnal	Roy Guides, Inc.
A 5	SYSTEMS AND METHODS FOR MANAGING POWER BASED ON MEDIA ASSET CONSUMPTION	Royi Guides, Inc.	11/11/2037	04/16/2019	10,283,798	10/04/2018	20180287808	03/30/2017	15/4/3,886	US ISSUEC	Roy Guides, Inc.
TE B	SYSTEMS AND METHODS FOR LIMITING INTERRUPTIONS TO USE OF AN APPLICATION ON THE BASIS OF WHICH APPLICATION IS REQUESTING TO CAUSE THE INTERRUPTION	Rovi Guides, Inc.						09/13/2019		Us Pending	Roy Guides, Inc.
EN FI	SYSTEMS AND METHODS FOR GENERATING CONSUMPTION PROBABILITY METRICS	Rovi Guides, Inc.				01/03/2019	20180005513	06/30/2017	-	_	Rovi Guides, Inc.
RIVERLESS VEHICLES	SYSTEMS AND METHODS FOR RESOLVING CONFLICTS BETWEEN PATHS OF DRIVERLESS VEHICLES BASED ON TIME REMAINING IN MEDIA ASSETS BEING CONSUMED IN THE	ROVI GLIGES, INC.	1211412137	RUZULAN	10,318,230	USITE	28010208102	102/11/2017	15/456,121	OS ISSUBO	Roy Guides, Inc.
A I	NTERACTIVE TELEVISION SYSTEM WITH PROGRAMMING-RELATED LINKS	Rovi Guides, Inc.				10/13/2016	20160301971	06/21/2016	ng 15/188,961	US Pendi	Rovi Guides, Inc.
VI I	INTERACTIVE TELEVISION SYSTEM WITH PROGRAMMING-RELATED LINKS	Rovi Guides, Inc.	10/27/2020	09/29/2015	9,148,703	01/08/2015	20150012944	09/22/2014	14/493,074	US Issued	Rovi Guides, Inc.
E:	INTERACTIVE TELEVISION SYSTEM WITH PROGRAMMING-RELATED LINKS	Rovi Guides, Inc.	08/03/2021	08/28/2012	8,255,952	08/12/2010	20100205635	04/16/2010	12/761,522	US Issued	Rovi Guides, Inc.
C	WITERACTIVE TELEVISION SYSTEM WITH PROGRAMMING-RELATED LINKS	ROVI GLIGES, INC.	חבטבוזבוטו	UBIZSIZU14	5,543,953	UMSTEZUUS	20080184301	ng/zm/zm/	11)894,542	OS	RBW Guides, Inc.
8	SYSTEMS AND METHODS FOR NAVIGATION OF GROUPS OF MEDIA ASSETS	Rovi Guides, Inc.	05/08/2037	10/16/2018	10,104,439	07/05/2018	20180182150	02/15/2017	15/433,878	US Issued	Rovi Guides, Inc.
4(	SYSTEMS AND METHODS FOR ENABLING A USER TO START A SCHEDULED PROGRAM OVER BY RETRIEVING THE SAME PROGRAM FROM A NONLINEAR SOURCE	Rovi Guides, Inc.				08/08/2019	20190246180	04/16/2019	vg 16/385,139	US Pending	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR ENABLING A USER TO START A SCHEDULED PROGRAM OVER BY RETRIEVING THE SAME PROGRAM FROM A NONLINEAR SOURCE	Rovi Guides, Inc.	02/13/2037	08/20/2019	10,390,098	07/05/2018	20180192089				Rovi Guides, Inc.
	-	7	Tanana and	********	400	470010010			4		

SYSTEMS AND METHODS FOR PROVIDING RECOMMENDATIONS BASED ON SHORT-MEDIA VIEWING PROFILE AND LONG-MEDIA VIEWING PROFILE	NOVI GUIGOS, ITIC.	1110/2007	0.01/2018	10,400,010	02/01/00	20190143079	1102017	0 10010,201	00	Royi Guides, Iric.
METHODS AND SYSTEMS FOR RECOMMENDING CONTENT OF A CONVERSATION	Dovi Crides Inc	14,48,7027	10/04/2010	10 /22 015	05/46/3010	0100110870	+	100101	10	Dovi Crides Inc
	Rovi Guides, Inc.				05/30/2019	0190166403	11/28/2017	ing 15/824,788	US Pend	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR CUSTOMIZING A DISPLAY OF INFORMATION ASSOCIATED WITH A MEDIA ASSET	Rovi Guides, Inc.				05/02/2019	0190132637	07/26/2018	ing 16/046,492	US Pending	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR CUSTOMIZING A DISPLAY OF INFORMATION ASSOCIATED WITH A MEDIA ASSET	Rovi Guides, Inc.	10/31/2037	08/28/2018	10,063,910			10/31/2017	d 15/799,012	US Issued	Rovi Guides, Inc.
METHODS AND SYSTEMS FOR NOIGATING POPULAR CONTENT	Rovi Guides, Inc.	11/20/2037	10/29/2019	10,462,528	05/23/2019	0190158925	11/20/2017	d 15/817,655	US Issue	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR NAVIGATING INTERNET APPLIANCES USING A MEDIA GUIDANGE APPLICATION	ROVI Guides, Inc.				8107/12/60	7018008101#	08/10/2010	10134,070	Co	Roy Guides, Inc.
SYSTEMS AND METHODS FOR MANAGING USER SUBSCRIPTIONS TO CONTENT SOURCES	ROY Guides, Inc.				00/14/2019	0.0000000000000000000000000000000000000	00102010	ing loviso, // i	5 6	Roy Guides, Inc.
SYSTEMS AND METHODS FOR PROVIDING PAUSE POSITION RECOMMENDATIONS	Desir Cuides Inc.	0.000	2000000	- C,000,000	00000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	10/10/10/10	US CO	Devidence, mac
SYSTEMS AND METHODS FOR RESIMING PLAYBACK OF MEDIA CONTENT	Boyl Guides Inc	85 UC/81/10	07/22/2010	10.352.356	05/04/2010	0590510010	+		III III III III III III III III III II	Povi Guides Inc
	Rovi Guides Inc	10/26/2037	8104/4/80	10 057 630			10/26/2017	_	_	Royl Guides Inc
STREEMS AND METHOUS FOR AND JUNES IN PRESENTING RECORDING PROME IS RECXTING TO A COMPETITION	Rovi Guides, Inc.				05/02/2019	0180130655	10/30/2017	ng 15/797,509	US Pend	Royl Guides, Inc.
	Rovi Guides, Inc.				06/20/2019	20190191199	12/20/2017	ing 15/848,503	US Pend	Rovi Guides, Inc.
	Rovi Guides, Inc.	11/09/2037	08/28/2018	10,063,911			11/09/2017	d 15/807,759	US Issue	Rovi Guides, Inc.
	Rovi Guides, Inc.	12/19/2037	10/01/2019	10,433,019	06/20/2019	20190191221	12/19/2017	d 15/847,692	US Issued	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR ADAPTIVE STORAGE AND SCHEDLLING OF MEDIA ASSETS	Rovi Guides, Inc.				8102/02/90	0180181220	12/19/2017	ing 15/847,680	US Pend	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR DETERMINING WHETHER A USER IS AUTHORIZED TO PERFORM AN ACTION IN RESPONSE TO A DETECTED SOUND	Rovi Guides, Inc.	12/12/2037	11/20/2018	10,135,632			12/12/2017	d 15/839,569	US Issue	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR MODIFYING FLAYBACK OF A MEDIA ASSET IN RESPONSE TO A VERBAL COMMAND UNRELATED TO PLAYBACK OF THE MEDIA ASSET	ROVI Guides, Inc.						RIOZIGOVAN	-	Co	Royl Guides, Inc.
SYSTEMS AND METHODS FOR MODIFYING PLAYBACK OF A MEDIA ASSET IN RESPONSE TO A VERBAL COMMAND UNFELATED TO PLAYBACK OF THE MEDIA ASSET	Rovi Guides, Inc.	1202/2/2037	08/24/2018	10,425,247	8102751190	20180182072	-	0 15/839,540	US	Royl Guides, Inc.
SYSTEMS AND METHODS FOR GENERATING SUMMARIES OF MISSED PORTIONS OF MEDIA ASSETS	Covi Galdes, Inc.				00000000	00000	-	100 ac,740	0	Novi Galaes, Iric.
METHODS AND SYSTEMS FOR LAUNCHING MULTIMEDIA APPLICATIONS BASED ON DEVICE CAPABILITIES	0		007	0,000,000	2000			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	O CONTRACTOR OF THE CONTRACTOR
RECOMMENDING LANGLAGE MODELS FOR SEARCH QUERIES BASED ON USER PROFILE	Boyl Guides Inc	10/06/2037	8100/2018	10 057 647			10/08/2017		┸	Boyl Guides Inc
RECOMMENDING RESULTS IN MULTIPLE LANGUAGES FOR SEARCH QUERIES BASED ON USER PROFILE	Rovi Guides, Inc.				04/04/2019	0190102481	_	_	n	Rovi Guides, Inc.
	Royl Guides, Inc.				04/04/2019	20190102480	09/29/2017	ing 15/720,917	US Pending	Royl Guides, Inc.
	Rovi Guides, Inc.	08/10/2037	02/12/2019	10,205,988	02/14/2019	0190052926	08/10/2017	d 15/674,281	US Issue	Rovi Guides, Inc.
	Rovi Guides, Inc.	09/20/2037	01/08/2019	10,178,422			09/20/2017	d 15/710,813	US Issue	Rovi Guides, Inc.
	Rovi Guides, Inc.				06/20/2019	0190191200	12/06/2018	ing 16/211,989	US Pending	Rovi Guides, Inc.
	Rovi Guides, Inc.	09/20/2037	01/22/2019	10,187,677			09/20/2017	d 15/710,812	US Issue	Rovi Guides, Inc.
	Rovi Guides, Inc.				03/07/2019	0190073401	09/06/2017	ing 15/696,605	US Pend	Rovi Guides, Inc.
	Rovi Guides, Inc.				07/18/2019	0190222901	12/20/2018	ing 16/227,497	US Pend	Rovi Guides, Inc.
	Rovi Guides, Inc.	07/28/2037	02/05/2019	10,200,759	01/31/2019	20190037254	07/28/2017	d 15/663,381	US Issue	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR GENERATING A RECOMMENDATION OF A MEDIA ASSET FOR SIMULTANEOUS CONSUMPTION WITH A CURRENT MEDIA ASSET	Royi Guides, Inc.				04/11/2019	20190110102	12/03/2018	ing 16/207,993	US Pending	Royl Guides, Inc.
SYSTEMS AND METHODS FOR GENERATING A RECOMMENDATION OF A MEDIA ASSET FOR SIMULTANEOUS CONSUMPTION WITH A CURRENT MEDIA ASSET	Rovi Guides, Inc.	07/19/2037	12/04/2018	10,149,012			07/19/2017	d 15/654,421	US Issue	Rovi Guides, Inc.
	Rovi Guides, Inc.	09/11/2037	07/02/2019	10,335,680	03/14/2019	0190076737	09/11/2017	d 15/700,334	US Issue	Rovi Guides, Inc.
METHODS AND SYSTEMS FOR PRESENTING A MEDIA ASSET SEGMENT THAT IS ASSOCIATED WITH A PRESPECIFIED QUALITY OF ACTING	Rovi Guides, Inc.	07/20/2037	01/22/2019	10,187,704	01/24/2019	20190028779	07/20/2017	d 15/655,586	US Issue	Rovi Guides, Inc.
METHODS AND SYSTEMS FOR RECOMMEDING ACTORS	Rovi Guides, Inc.				01/24/2019	0190026680	_	ing 15/655,618	US Pend	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR PROVIDING A LOW POWER MODE FOR A MEDIA GUIDANDE APPLICATION	Rovi Guides, Inc.	10/26/2037	10/23/2018	10,110,952			10/26/2017	d 15/795,190	US Issue	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR PROVIDING A DELETION NOTIFICATION	ROVI Guides, Inc.				RIDZIZDIGO	20180132030	10202017	Ing   5/785, 172	Co	Ray Guides, Inc.
SYSTEMS AND METHODS FOR DETERMINATO PLAYBACK POINTS IN MEDIA ASSETS	Revi Guides, Inc.				RLOZVANIAN	201901/2498	1	-	OS Pending	Royi Guides, Inc.
SYSTEMS AND METHODS FOR DETERMINING PLAYBACK POINTS IN MEDIA ASSETS	Rovi Guides, Inc.	07/20/2037	01/08/2019	10,176,846	01/24/2019	20180027180	_		<u> </u>	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR EXCLUDING CONSUMED CONTENT FROM A CONTENT PRESENTATION	Rovi Guides, Inc.				04/11/2019	20190110090	-	ng 16/149,262	US	Royl Guides, Inc.
SYSTEMS AND METHODS FOR EXCLUDING CONSUMED CONTENT FROM A CONTENT PRESENTATION	Rovi Guides, Inc.	10/06/2037	11/06/2018	10,123,062			10/06/2017	d 15/726,935	US Issue	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR PROMDING A VIRTUAL ASSISTANT TO ACCOMMODATE DEFERENT SENTIMENTS AMONG A GROUP OF USERS BY CORRELATING OR PRIORITIZING CAUSES OF THE DEFERENCE.	Rovi Guides, Inc.				12/27/2018	0180373547	06/21/2017	ing 15/629,472	US Pend	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR GROUPING SEARCH RESULTS FROM MULTIPLE SOURCES	Rovi Guides, Inc.				12/13/2018	20180357288	٠.	-	US	Royl Guides, Inc.
BYSTEMS AND METHODS FOR DETECTING AND CORRELATING SCHEDULE-RELATED INFORMATION IN AN ELECTRONIC DOCUMENT TO GENERATE A CALENDER SCHEDULE INDICATOR	Royl Guldes, Inc.	75 07/87/80	2018/018	10,198,900			71.02/82/80	0 15//20,60/	US IISSUB	Royl Guides, Inc.
INTERACTIVE TELEVISION TARGETED MESSAGE SYSTEM	Rovi Guides, Inc.	02027271	04/18/2017	8,628,864	12/25/2014	20140380360	1	0 14/483,616	US ISSUE	Royl Guides, Inc.
INTERACTIVE TELEVISION TARGETED MESSAGE SYSTEM	Royl Galago, Inc.	112000	0.000	0,040,000	0370112010	0100100010	٠.	120000,000	000000	Novi Guides, inc.
SYSTEMS AND METHODS FOR CONFLICT DETECTION BASED ON USER PREFERENCES		44.00	00000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	07/04/2010	20180255755	-		To co	Roy Guides, Inc.
SYSTEMS AND METHODS FOR COMPLICT DETECTION DASED ON LUSER PREFERENCES	O Guides, mic.	0.0242007	04/20/20/8	10,271,102	01/24/2018	0.070700	-			Roy Guides, Inc.
METHODS AND SYSTEMS FOR CORRECTING, BASED ON SPEEDH, INFUT OSDERATED USING AUTOMATIC SPEECH REDOGNTION.	Royi Guides, Inc.	3			200	200000000000000000000000000000000000000	10/24/2018	ng 16607,858	US Pend	Royl Guides, Inc.
SYSTEMS AND METHODS FOR ASSISTING A USER WITH DEMIFYING AND REPLAYING CONTENT MISSED BY ANOTHER USER BASED ON AN ALERT ALERTING THE OTHER USER TO THE MISSED CONTENT.	Royl Guldes, Inc.	07/04/2037	0.07/80/7.	10,148,000			UDZIU EVOU		OS ISSUE	Royl Guides, Inc.
SYSTEMS AND METHODS FOR PROVIDING SUMMARIZED VIEWS OF A MEDIA ASSET IN A MALTHANDOW USER INTERFACE	NOVI GUIGA, may	250010037	91001000	2000	0000	0.0000000000000000000000000000000000000	On Daniel C		1	Deciding Inc.
	Rovi Guides, Inc.	-	1		02/21/2019	20190058920	07/26/2018	na 16/046.158	US Pending	Royl Guides, Inc.

	INTERACTIVE TELEVISION APPLICATION WITH NAVIGABLE CELLS AND REGIONS	Rovi Guides, Inc.	01/31/2021	05/30/2017	9,668,025	10/06/2016	20160295288	03/08/2016	Issued 15/064,213	US	Rovi Guides, Inc.
	INTERACTIVE TELEVISION APPLICATION WITH NAVIGABLE CELLS AND REGIONS	Rovi Guides, Inc.	01/31/2021	06/21/2016	9,374,623	09/24/2015	20150271563	06/03/2015	Issued 14/729,734	us	Rovi Guides, Inc.
	INTERACTIVE TELEVISION APPLICATION WITH NAVIGABLE CELLS AND REGIONS	Rovi Guides, Inc.	01/31/2021	06/30/2015	9,071,877	06/05/2014	20140157318	02/06/2014	Issued 14/174,587	Us	Rovi Guides, Inc.
	INTERACTIVE TELEVISION APPLICATION WITH NAVIGABLE CELLS AND REGIONS	Rovi Guides, Inc.	01/31/2021	03/25/2014	8,683,517	07/11/2013	20130179924	03/04/2013	Issued 13/784,129	US	Rovi Guides, Inc.
	INTERACTIVE TELEVISION APPLICATION WITH NAVIGABLE CELLS AND REGIONS	Rovi Guides, Inc.	10/19/2021	04/02/2013	8,413,185	08/07/2008		04/03/2008	Issued	US	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING A PROGRESS BAR FOR UPDATING VIEWING STATUS OF PREVIOUSLY VIEWED CONTENT	Rovi Guides, Inc.				06/27/2019	20190200090	12/21/2017	Pending 15/850,488	US	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR DYNAMICALLY BHABLING AND DISABLING A BIONETRIC DEVICE	Rovi Guides, Inc.				06/27/2019	20190200085	11/09/2018	Pending 16/185,434	US	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR DYNAMICALLY ENABLING AND DISABLING A BIOMETRIC DEVICE	Rovi Guides, Inc.	12/21/2037	12/18/2018	10,158,919			12/21/2017	Issued	sn	Royl Guides, Inc.
	METHODS AND SYSTEMS FOR FORCED ADVERTISING	Rovi Guides, Inc.	02/01/2021	01/03/2017	9,538,256	03/03/2016	20160066058	08/27/2015	Issued 14/837,430	Us	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR FORCED ADVERTISING	Rovi Guides, Inc.	06/11/2021	09/15/2015	9,137,491	05/26/2011	20110126227	10/25/2010	Issued	us	Rovi Guides, Inc.
MENTS	SYSTEMS AND METHODS FOR IDENTIFYING A SPORTS PLAYER OF INTEREST TO A USER DESPITE THE USER BEING DISINTERESTED IN THE PLAYER'S ATHLETIC ACCOMPLISHMENTS	Rovi Guides, Inc.				05/16/2019	20190149854	11/13/2017	Pending 15/8	US	Rovi Guides, Inc.
	SYSTEMS AND METHOD FOR DYNAMIC INSERTION OF ADVERTISEMENTS	Rovi Guides, Inc.						12/18/2018	Pending	S	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR INTELLIGENTLY ACCESSING MEDIA CONTENT BASED ON RIGHTS	Rovi Guides, Inc.				10/24/2019	20190325114	04/24/2018	Pending	US	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR IDENTIFYING USERS BASED ON VOICE DATA AND MEDIA CONSUMPTION DATA	Rovi Guides, Inc.						12/10/2018	Pending	US	Rovi Guides, Inc.
	INTERACTIVE PROGRAM GUIDE WITH GRAPHIC PROGRAM LISTINGS	Rovi Guides, Inc.	01/04/2021	07/08/2019	10,349,113	02/15/2018	20180048931	06/26/2017	Issued	US	Rovi Guides, Inc.
	INTERACTIVE PROGRAM GUIDE WITH GRAPHIC PROGRAM LISTINGS	Rovi Guides, Inc.	01/04/2021	06/27/2017	9,693,091	12/22/2016		09/01/2016	Issued	US	Rovi Guides, Inc.
	INTERACTIVE PROGRAM GUIDE WITH GRAPHIC PROGRAM LISTINGS	Rovi Guides, Inc.	01/04/2021	08/06/2016	9,438,950	07/16/2015	- 21	03/26/2015	Issued	US	Rovi Guides, Inc.
	INTERACTIVE PROGRAM QUIDE WITH GRAPHIC PROGRAM LISTINGS	Rovi Guides, Inc.	01/04/2021	04/21/2015	9,015,756	01/15/2015	20150020103	09/30/2014	Issued 1	US	Rovi Guides, Inc.
	INTERACTIVE PROGRAM GUIDE WITH GRAPHIC PROGRAM LISTINGS	Rovi Guides, Inc.	05/22/2022	01/20/2015	8,938,757	03/09/2006	N.	08/01/2005	Issued	US.	Rovi Guides, Inc.
	ELECTRONIC PROGRAM CUIDE WITH GRAPHIC PROGRAM LISTINGS (AS AMENDED)	Rovi Guides, Inc.	08/17/2022	08/30/2005	6,938,208 C1	10/18/2001	N	01/04/2001	Issued	US	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PLAYBACK OF SUMMARY MEDIA CONTENT	Rovi Guides, Inc.	12/20/2037	01/15/2019	10,182,271		_	12/20/2017	Issued	US	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR MODIFYING FAST-FORWARD SPEEDS BASED ON THE USER'S REACTION TIME WHEN DETECTING POINTS OF INTEREST IN CONTENT	Rovi Guides, Inc.				07/04/2019	20190208282	12/28/2017	Pending	30	Royl Guides, Inc.
	METHODS AND SYSTEMS FOR PROVIDING RELEVANT SEASON SERIES RECORDING FUNCTIONALITY	ROVI Guides, Inc.				07/05/2018	20180182130	12/28/2017	rending		Roy Guides, Inc.
	METHODS AND SYSTEMS FOR PROVIDING AN OPTIMAL USER INTERFACE	Royl Guides, Inc.				07/05/2010		1102/02/21	e ding	. 8	Roy Guides, Inc.
	METHODS AND SYSTEMS FOR GENERATING A MENU ICONINDICATIVE OF A STATUS OF AN APPLICATION	Royl Guides, Inc.				07/05/2010		10202021	o Tending	5 8	Roy Guides, Inc.
	SYSTEMS AND METHODS FOR AUTOMATICALLY RETURNING TO PLAYBACK OF A MEDIA ASSET WHEN THE MEDIA ASSET IS TRENDING IN SOCIAL CHATTER	Royi Guides Inc				07/05/2018	20180100405	11/28/2017	o Tending	5 G	Roy Guides, Inc.
	SYSTEMS AND METHODS FOR DYNAMICALLY EXTENDING OR SHORTENING SEGMENTS IN A PLAYLIST	Royi Guides, Inc.				RL07/00/G0	20190108112	יוטבוובווו	ng ng		RBV Guides, Inc.
	SYSTEMS AND METHODS FOR EXTENDING STORAGE SPACE OF A USER DEVICE	Royl Guides, Inc.	12128/2037	o in Zigumi.	10,007,079			1712/8/21/21	Issued	. 6	Roy Guides, Inc.
	SYSTEMS AND METHODS FOR MANAGEMENT OF MEDIA CONTENT SUBSCRIPTIONS	Rovi Guides, Inc.				07/04/2019	20190208242	12/28/2017	Pending	US US	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PRESENTING SUPPLEMENTAL CONTENT IN AUGMENTED REALTHY	Rovi Guides, Inc.						07/02/2019	Pending 1	US	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PRESENTING SUPPLEMENTAL CONTENT IN AUGMENTED REALTY	Rovi Guides, Inc.	01/10/2038	07/23/2019	10,360,454	07/04/2019	20190205645	12/28/2017	Issued	US	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR CHANGING A USERS PERSPECTIVE IN VIRTUAL REALTY BASED ON A USER-SELECTED POSITION	Rovi Guides, Inc.				07/04/2019		12/28/2017	Pending 15/856,941	us	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR GENERATING CUSTOMIZED SHARED VIEWING EXPERIENCES IN VIRTUAL REALITY ENVIRONMENTS	Rovi Guides, Inc.	12/28/2037	12/18/2018	10,158,917			12/28/2017	Issued 15/856,657	US	Rovi Guides, Inc.
F	SYSTEMS AND METHODS FOR RECOMMENDING DISEASE-RELATED CONTENT BASED ON A DISEASE ASSOCIATED WITH A USER	Rovi Guides, Inc.				07/04/2019	20190206571	12/28/2017	Pending 15/857,072	US	Rovi Guides, Inc.
RE	SYSTEMS AND METHODS FOR RESUMING MEDIA IN DIFFERENT MODES OF PLAYBACK BASED ON ATTRIBUTES OF A PHYSICAL ENVIRONMENT	Rovi Guides, Inc.	12/28/2037	07/23/2019	10,362,357	07/04/2019	20190208270	12/28/2017	Issued 15/857,051	us	Rovi Guides, Inc.
ΕE	SYSTEMS AND METHODS FOR ALERTING USERS TO DIFFERENCES BETWEEN DIFFERENT MEDIA VERSIONS OF A STORY	Rovi Guides, Inc.				07/04/2019		12/03/2018	Pending	sn	Rovi Guides, Inc.
ĒL	SYSTEMS AND METHODS FOR ALERTING USERS TO DIFFERENCES BETWEEN DIFFERENT MEDIA VERSIONS OF A STORY	Rovi Guides, Inc.	12/29/2037	12/04/2018	10,147,461			12/29/2017	Issued 15/858,508	sn	Rovi Guides, Inc.
:	SYSTEMS AND METHODS FOR SIMULATING A SPORTS EVENT BASED ON AVAILABILITY OF SPORTS STATISTICS	Rovi Guides, Inc.				05/09/2019	20190141383	11/08/2017	Pending 15/807,819	sn	Rovi Guides, Inc.
0\$	SYSTEMS AND METHODS FOR SIMULATING A SPORTS EVENT ON A SECOND DEVICE BASED ON A VIEWER'S BEHAVIOR	Rovi Guides, Inc.				05/09/2019	20190141382	11/09/2017	Pending 15/807,798	su	Rovi Guides, Inc.
F 53	SYSTEMS AND METHODS FOR FILTERING SUPPLEMENTAL CONTENT FOR AN ELECTRONIC BOOK	Rovi Guides, Inc.				05/23/2019	20190155955	11/20/2017	Pending 15/818,407	sn	Rovi Guides, Inc.
ر 4	SYSTEMS AND METHODS FOR DISPLAYING SUPPLEMENTAL CONTENT FOR AN ELECTRONIC BOOK	Rovi Guides, Inc.				05/23/2019	20190155949	11/20/2017	Pending 15/818,379	sn	Rovi Guides, Inc.
۲۲ 58	SYSTEMS AND METHODS FOR SHARING CONTENT SERVICE PROVIDER SUBSCRIPTIONS	Rovi Guides, Inc.	11/06/2037	07/02/2019	10,341,735	05/09/2019	20180141398	11/06/2017	Issued 15/804,072	sn	Rovi Guides, Inc.
ΓE	SYSTEMS AND METHODS FOR SHARING CONTENT SERVICE PROVIDER SUBSCRIPTIONS FOR MEDIA ASSET RECOMMENDATIONS	Rovi Guides, Inc.				05/09/2019	20190141398	11/06/2017	Pending 15/804,036	su	Rovi Guides, Inc.
EN F	SYSTEMS AND METHODS FOR MANAGING STORAGE OF DUPLICATE COPIES OF A MEDIA ASSET AT A STORAGE DEVICE	Rovi Guides, Inc.	12/14/2037	12/18/2018	10,158,911			12/14/2017	Issued 15/842,564	Sn	Rovi Guides, Inc.
IT R/		Rovi Guides, Inc.	12/14/2037	12/04/2018	10,149,001			12/14/2017	Issued 15/842,532	Sn	Rovi Guides, Inc.
		Rovi Guides, Inc.	11/29/2037	01/28/2019	10,194,204			11/29/2017	Issued 15/826,319	SU	Royl Guides, Inc.
<b>/</b> 11	SYSTEMS AND METHODS FOR OPTIMIZING ALLOCATION OF BANDWIDTH FOR PRE-CACHING MEDIA CONTENT	Rovi Guides, Inc.				05/02/2019	20190132413	10/26/2017	Pending 15/794,532	us	Rovi Guides, Inc.
<b>E</b> :	SYSTEMS AND METHODS FOR ESTABLISHING A VOICE LINK BETWEEN USERS ACCESSING MEDIA	Rovi Guides, Inc.				05/16/2019	20190149584	11/14/2017	Pending 15/812,594	Sn	Rovi Guides, Inc.
0	SYSTEMS AND METHODS FOR ADAPTIMELY BUFFERING MEDIA CONTENT AT A DIGITAL VIDEO RECORDER	Rovi Guides, Inc.				07/04/2019	20190208263	12/28/2017	Pending	sn	Rovi Guides, Inc.
8	SYSTEMS AND METHODS FOR IMPROVING QUALITY OF SERVICE WHILE STREAMING CODE-AGNOSTIC CONTENT BY EDITING MANIFEST FILES	Rovi Guides, Inc.				04/18/2019	20190116102	10/17/2017	Pending 15/785,852	Sn	Royl Guides, Inc.
42	SYSTEMS AND METHODS FOR IMPROVING QUALITY OF SERVICE WHILE STREAMING CODE-AGNOSTIC CONTENT	Rovi Guides, Inc.				04/18/2019	20190116101	10/17/2017	Pending 15/785,826	su	Rovi Guides, Inc.
2	SYSTEMS AND METHODS FOR PROVIDING BINGE-WATCHING PAUSE POSITION RECOMMENDATIONS	Rovi Guides, Inc.		-		10/24/2019	_	07/03/2019	Pending 16/503,008	Sn	Rovi Guides, Inc.

WETHOUS AND SYSTEMS FOR DISAMBIGUATING USER INPUT BASED ON DETECTION OF ENSEMBLES OF ITEMS									
	Rovi Guides, Inc.				10/10/2019	0180311006	12/28/2018	US Pending 16/235,289	Royl Guides, Inc.
METHODS AND SYSTEMS FOR DISCHARGO HATNO, I SEED AND PETENTION OF EMERING ITS OF TEMS	Rovi Guides, Inc.	04/10/2038	02/12/2019	10,204,160			04/10/2018	US Issued 15/949,650	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR IDENTIFYING A MEDIA ASSET FROM AN AMBIGUOUS AUDIO INDICATOR	Rovi Guides, Inc.				10/10/2019	20190311067	04/06/2018	US Pending 15/847,345	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR DISPLAYING SUPPLEMENTAL CONTENT FOR PRINT MEDIA USING AUGMENTED REALTY	Rovi Guides, Inc.				10/03/2019	20190304192	03/29/2018	US Pending 15/940,198	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR UPDATING A NONAJOWENTED REALITY DISPLAY WITH USER INTERACTIONS IN AN AJOMENTED REALITY DISPLAY	ROVI Guides, Inc.						_	Tending	ROVI Guides, Inc.
SYSTEMS AND METHODS FOR PROVIDING MEDIA CONTENT RELATED TO A VIEWER MODICATED AMBIGLIOUS SITUATION DURING A SPORTING EVENT	Royi Guides, Inc.	OTTOGE SE	01/202/10	10,302,344			0.0000000000000000000000000000000000000	US Bending 45073.474	Royl Guides, Inc.
SYSTEMS AND METHODS FOR PROVIDING MEDIA CONTENT RELATED TO A DETECTED AMBIGUOUS SITUATION DURING A SPORTING EVENT	Royi Guides, Inc.						0//05/2010	Bumaa	Roy Guides, Inc.
BYSTEMS AND METHODS FOR ALTERNIO A PROCRESS BAR TO PREVIENT SPOLERS IN A MEDIA ASSET	Rovi Guides, Inc.						02/27/2019	Pending	Rovi Guides, Inc.
8YSTEMS AND METHODS FOR ALTERING A PROCRESS BAR TO PREVIENT SPOLERS IN A MEDIA ASSET	Kovi Guides, Inc.	06/28/2038	DAVUBIZUTB	10,257,547			8102/8790	Ssued	Roy Guides, Inc.
SYSTEMS AND METHODS FOR DESCURING PRESENTATION OF MEDIA OBLECTS DURING PLAYBACK OF VIDEO BASED ON INTERACTIONS WITH OTHER MEDIA OBLECTS	Roy Guides, Inc.	3			R1.07/92/R0	U190297376	USIZ SIZUTO	rending	Revi Guides, Inc.
METHODS AND SYSTEMS FOR FACULTATING INTRA-GAME COMMUNICATIONS IN A VIDEO GAME ENVIRONMENT	Cuiden he				000000000000000000000000000000000000000	0.0000000000000000000000000000000000000	-	0	Desidence, made
SYSTEMS AND METHODS FOR MODIFYING THE DISPLAY OF INPUTS ON A USER INPUT DEVICE	Royi Guides Inc				10/10/2019	20190308109	_	o o	Roy Guides Inc
SYSTEMS AND METHODS FOR MODIFYING THE DISPLAY OF INPUTS ON A USER INPUT DEVICE	Royi Guides, Inc.				10/03/2019	20190306559		Pending	Royl Guides, Inc.
WETHOUS AND SYSTEMS FOR PROVIDING WEDIA ASSET RECOMMENDATIONS BASED ON DISTRIBUTED BLOCKCHAIN ANALYSIS	Rovi Guides, Inc.	03/28/2038	05/07/2019	10,284,897			_	Issued	Rovi Guides, Inc.
	Rovi Guides, Inc.				10/03/2019	20190306549	03/29/2018	US Pending 15/940,597	Rovi Guides, Inc.
CONTRACTOR DO A CONTRACTOR DETECTOR DETECTOR DETECTOR DETECTOR DETECTOR ADDRESS.	Rovi Guides, Inc.				10/03/2019	20190305979	03/27/2018	US Pending 15/936,847	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR REFERENCE Y PROFESSION METHODS FROM METHODS FROM METHODS FROM DEPENDENCE FROM OCCURRING DERIVAD METHOD FROM METHODS FROM MET	Rovi Guides, Inc.						09/18/2019	US Pending 16/574,406	Rovi Guides, Inc.
SYSTEMS AND METHODOS FOR PREEMPTIVELY PREVENTING INTERRUPTIONS FROM NETWORK-CONNECTED DEVICES FROM OCCUPRING DURING MEDIA VIEWING	Rovi Guides, Inc.				10/03/2019	0180305882	03/27/2018	US Pending 15/936,827	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR TRAINING NETWORK-CONNECTED OBLECTS TO PROVIDE CONFIGURATIONS IN ASSOCIATION WITH EVENTS WITHIN MEDIA ASSETS	Rovi Guides, Inc.				10/03/2019	20190305978	03/27/2018	US Pending 15/937,695	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR SEAMLESSLY CONNECTING TO A USER'S DEVICE TO SHARE AND DISPLAY A RELEVANT MEDIA ASSET	Rovi Guides, Inc.	06/05/2038	09/10/2019	10,412,434			06/05/2018	US Issued 15/997,998	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR SEAMLESSLY CONNECTING DEVICES BASED ON RELATIONSHIPS BETWEEN THE USERS OF THE RESPECTIVE DEVICES	Rovi Guides, Inc.						06/18/2019	US Pending 16/444,688	Royl Guides, Inc.
SYSTEMS AND METHODS FOR SEAMLESSLY CONMECTING DEVICES BASED ON RELATIONSHIPS BETWEEN THE USERS OF THE RESPECTIVE DEVICES	Rovi Guides, Inc.	06/05/2038	08/06/2019	10,375,432			06/05/2018	Issued	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR NOREASING A LIKELHOOD OF MEDIA ASSET CONSUMPTION USING RECOMMENDATION CHAINS	Rovi Guides, Inc.	03/23/2038	10/15/2019	10,448,072	09/26/2019	20190297365	03/23/2018	US Issued 15/933,829	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR CONNECTING A PUBLIC DEVICE TO A PRIVATE DEVICE USING MIRRORING APPLICATIONS	Rovi Guides, Inc.						05/10/2018	Pending	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR CONNECTING A PUBLIC DEVICE TO A PRIVATE DEVICE PROVIDING A PRE-INSTALLED CONTENT MANAGENENT APPLICATION	Kovi Guides, Inc.						06/10/2018	US Pending 15976,369	Royl Guides, Inc.
SYSTEMS AND METHODS FOR CONNECTING A PUBLIC DEVICE TO A PRIVATE DEVICE WITH PRE-INSTALLED CONTENT MANAGEMENT APPLICATIONS	Rovi Guides, Inc.						05/10/2018	Pending	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR CONNECTING A PUBLID DEVICE TO A PRIVATE DEVICE WITHOUT PRE-INSTALLED CONTENT MANAGEMENT APPLICATIONS	Rovi Guides, Inc.						05/10/2018	Pending	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR DISPLAYING A NOTIFICATION AT AN AREA ON A DISPLAY SCREEN THAT IS WITHIN A LINE OF SIGHT OF A SUBSET OF AUDIENCE MEMBERS TO WHOM THE WOTFICATION PERTANG	Rovi Guides, Inc.						03/14/2019	Pending	Ravi Guides, Inc.
BYSTENS AND METHODS FOR OFTIMIZING CONTENT VIEWING DIGITAL RIGHTS OF MULTIPLE USERS	Rovi Guides, Inc.				10/24/2019	20180327508	04/24/2018	US Pending 15/961,232	Rovi Guides, Inc.
METHODS AND SYSTEMS FOR SELECTING A DESTINATION FOR STORAGE OF A MEDIA ASSET BASED ON WIRELESS ACCESS LIKELIHOOD	Rovi Guides, Inc.	05/15/2038	08/13/2019	10,382,821			03/15/2018	US Issued 15/922,358	Rovi Guides, Inc.
METHODS AND SYSTEMS FOR SELECTING A DESTINATION FOR STOTAGE OF A MEDIA ASSET BASED ON TRICK-PLAY LIKELIHOOD	Rovi Guides, Inc.	03/15/2038	08/13/2019	10,382,812			03/15/2018	US Issued  15/922,336	Rovi Guides, Inc.
SYSTEMS AUD METHODS FOR AUTOMATION OF THE USE'N STORMED A CHEMINATORY OF THE METHOLOGY OF T	Rovi Guides, Inc.				10/17/2019	0190320231	04/30/2019	Pending	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR AUTOMATICALLY OUTPUTTING A REPLY TO A MESSAAGE RELATING TO A MEDIA ASSET A USER IS GURRENTLY WATCHING TWALT THE WEST OF SECTION OF LINCOLT WAS TO A MEDIA ASSET A USER IS GURRENTLY OUTPUTTING TO A MEDIA ASSET A USER IS GURRENT TO A WED A MEDIA ASSET AND METHODS FOR AUTOMATICALLY OUTPUTTING A REPLY TO A MESSAAGE RELATING TO A WEDIA ASSET AND METHODS FOR AUTOMATICALLY OUTPUTTING A REPLY TO A MESSAAGE RELATING TO A WEDIA ASSET AND SHE THE WAS TO A MEDIA ASSET AND METHODS FOR AUTOMATICALLY OUTPUTTING A REPLY TO A MESSAAGE RELATING TO A WEDIA ASSET AND METHODS FOR AUTOMATICALLY OUTPUTTING A REPLY TO A MESSAAGE RELATING TO A WEDIA ASSET AND A METHODS FOR AUTOMATICALLY OUTPUTTING A REPLY TO A MESSAAGE RELATING TO A WEDIA ASSET AND A METHOD TO A MEDIA ASSET AND A METHOD ASSET AND A METHOD A METHOD TO A MEDIA ASSET AND A METHOD A ME	Rovi Guides, Inc.	03/07/2038	06/11/2019	10,321,185			03/07/2018	US Issued 15/914,561	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR DETERMINING WHETHER TO OUTPUT A REPLYTO A MESSAGE RELATING TO A PREMIOUS COMMERSATION WHEN A DEVICE IS ON A DOWNOT-DISTURB MODE	Rovi Guides, Inc.				09/12/2019	20190278867	03/07/2018	US   Pending   15/914,541	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR UPDATING SEARCH RESULTS BASED ON A CONVERSATION	Rovi Guides, Inc.				10/24/2019	0190325079	04/24/2018	US Pending 15/960,982	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR PRESENTING EVENT NOTHEATHONS BASED ON ACTIVE APPLICATIONS IN A SOCIAL GROUP, ONDERINES NOTWITHSTANDING A USER INSTRUCTION TO DISABLE EVENT NOTHEATHORS.	Rovi Guides, Inc.				09/19/2019	20190289367	03/14/2018	US Pending 15/920,662	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR PRESENTING EVENT NOTEICATIONS, BASED ON TREMDING COMMUNICATIONS, ON DEVICES NOTWITHSTAUDING A USER INSTRUCTION TO BISABLE EVENT NOTEICATIONS.	Rovi Guldes, Inc.				09/19/2019	0190288970	03/14/2018	US Pending 15/920,657	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR PROMPTING A USER TO VIEW AN IMPORTANT EMENT IN A MEDIA ASSET PRESENTED ON A FIRST DEVICE WHEN THE USER IS VIEWING ANOTHER MEDIA ASSET PRESENTED TO	Rovi Guides, Inc.	04/04/2038	10/08/2019	10,440,440	09/26/2019	20190297388	03/23/2018	US Issued 15/933,727	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR PROMPTING A USER TO MEW AN IMPORTANT EVENT IN A MEDIA ASSET WHEN THE USER IS USING ANDTHER APALICATION	Rovi Guides, Inc.	03/23/2038	08/13/2019	10,382,829			8102/22/20	US Issued 15/933,720	Royl Guides, Inc.
SYSTEMS AND METHODS FOR MANAGING LOCAL AND CLOUD STORAGE FOR MEDIA ASSETS	Rovi Guides, Inc.	03/27/2038	09/10/2019	10,412,450	10/03/2019	20190306575	03/27/2018	US Issued 15/937,827	Rovi Guides, Inc.
H ADVERTISING INSERTION	Rovi Guides, Inc.				08/29/2019	20190268634	02/23/2018	US Pending 15/903,401	Rovi Guides, Inc.
	Rovi Guides, Inc.						07/12/2019	US   Pending   16/510,309	Rovi Guides, Inc.
	Rovi Guides, Inc.				08/15/2019	20190253768	11/05/2018	US Pending 16/180,650	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR DUSTOMIZING DELIVERY OF ADVERTISEMENTS	Rovi Guides, Inc.	02/15/2038	12/11/2018	10,154,319			02/15/2018	US Issued  15/897,296	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR ALERTING A USER TO MISSED CONTENT IN PREDIOUSLY ACCESSED MEDIA	Rovi Guides, Inc.	03/28/2038	07/02/2019	10,341,742			03/28/2018	US Issued 15/939,043	Rovi Guides, Inc.
	Rovi Guides, Inc.				08/22/2019	20190258664	10/16/2018	Pending	Rovi Guides, Inc.
AUTOMATICALLY GENERATING SUPPLEMENTAL CONTENT FOR A MEDIA ASSET BASED ON A USER'S PERSONAL MEDIA COLLECTION	Rovi Guides, Inc.				08/22/2019	0190258720	02/22/2018	US   Pending   15/902,663	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR ALERTING A USER TO PUBLISHED UNDESIRABLE IMAGES DEPICTING THE USER	Rovi Guides, Inc.				09/19/2019	20190286886	03/19/2018	US Pending 15/924,928	Rovi Guides, Inc.
METHODS AND SYSTEMS FOR SELECTING A MEDIA CONTENT ITEM FOR PRESENTATION DURING A TRYP	Rovi Guides, Inc.	02/02/2038	10/15/2019	10,448,103	08/08/2019	20190246175	09/19/2018	US Issued 16/135,652	Rovi Guides, Inc.
WETHOUS AND SYSTEMS FOR SELECTING A MEDIA CONTENT ITEM FOR PRESENTATION DURING A TRIP	Rovi Guides, Inc.	02/02/2038	11/06/2018	10,123,078			02/02/2018	Issued	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR BLOCKING SPOILERS	Rovi Guides, Inc.				08/15/2019	20180253757	02/09/2018	US   Pending   15/892,565	Rovi Guides, Inc.
	Rovi Guides, Inc.				05/09/2019	20190141403	11/02/2018	US   Pending   16/179,780	Rovi Guides, Inc.
MTERACTIVE TELEVISION APPLICATION WITH MANIQUELE CELLS AND REGIONS	Rovi Guides, Inc.	01/31/2021	01/22/2019	10,187,699	08/10/2017	20170230722		Issued	Rovi Guides, Inc.

SER SPEECHNTERFACES FOR INTERACTIVE MEDIA GUIDANCE APPLICATIONS									
ISER SPEECHINTERFACES FOR INTERACTIVE MEINA GUIDANCE APPLICATIONS	Roy Guides Inc. USER SPE	09/14/2021	5/24/2016	8.348.368	04/17/2014	20140108012	12/26/2013	US Issued 14/140 960	Royl Guides, Inc.
ISER SPEECHINTERFACES FOR INTERACTIVE MEDIA GUIDANCE APPLICATIONS		03/30/2021	14/30/2013	3,433,571	107/10/2	20120260284	01/19/2012	Issued	Royl Guides, Inc.
SER SPEECH NITERFADES FOR NITERACTIVE MEDIA GUIDANUE APPLICATIONS	no.	03/30/2021	18/24/2010	7.783,490	07/03/2008	20080162145	7,002/02/80	Ssued	Roy Guides, Inc.
ISER GREECH INTERFACES FOR INTERACTIVE MEDIA OUDANUE APPLICATIONS		1202/202/20	18/24/2010	1,783,481	11/13/2008	20080281601	04/18/2008	Issued	Royl Guides, Inc.
SER GREECHINTERFACES FOR INTERACTIVE MEDIA GUIDANGE APPLICATIONS	_	1202/12/20	ZIUZUZUZ	5,121,640	002/80/10	2007007007	annziani/in	Issued	Roy Guides, Inc.
JISER SPEECH INTERFACES FOR INTERFACTIVE MEDIA GUIDANCE APPLICATIONS		DOVORNON I	o o o o o o o o o o o o o o o o o o o	,uao, 100	00104/2000	81027100002	07/18/2004	BSUBG	Roy Galaes, Inc.
SYSTEMS AND METHODS FOR MEDIA PROJECTION SUFFACE SELECTION							81027/2080	rending	Royl Guides, Inc.
SYSTEMS AND METHODS FOR ADVERTISING WITHIN A SUSTTILE OF A MEDIA ASSET							08/04/2018	rending	Royl Guides, Inc.
SYSTEMS AND METHODS FOR COMTROLLING PLAYBACK OR RECORDING OF MEDIA ASSETS BASED ON A STATE OF A SECONDARY DEMOE							12/1/2018	Pending	Roy Guides, Inc.
YSTEMS AND METHODS FOR GENERATING QUERY SUGGESTIONS							8107/97/80	rending	Roy Guides, Inc.
SYSTEMS AND METHODS FOR SELECTING A REGION OF A FLEXIBLE SCREEN AND CONTROLLING VIDEO PLAYBADX							8102/92/90	rending	Royl Guides, Inc.
SYSTEMS AND METHODS FOR SELECTING A REGION OF A FLEXIBLE SCREEN AND CONTROLLING VIDEO PLAYBACK							8102/92/80	rending	Roy Guides, Inc.
SYSTEMS AND METHODS FOR SELECTING A REGION OF A FLEXIBLE SCREEN AND CONTROLLING VIDEO PLAYBLOX							09/25/2018	Pending	Roy Guides, Inc.
YSTEMS AND METHODS FOR IMPROVED ALDERVE MEASURING					09/24/2015	20150271550	04/16/2015	Pending	Roy Guides, Inc.
YSTEMS AND METHODS FOR IMPROVED AUDIENCE MEASURING	Rovi Guides, Inc.	03/30/2021	04/21/2015	9,015,739	11/29/2012	20120304211	07/09/2012	Issued	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR IMPROVED ALDIENCE MEASURING		07/24/2028	1/05/2013	8,578,403		20020056087	03/30/2001	Issued	Rovi Guides, Inc.
REACTION COMPENSATED RESULT RELECTION							08/16/2018	Pending	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR DETERMINANG MAETHER TO TRIGGER A VOICE CAPABLE DEVICE BASED ON SPEAVING CADENCE							09/24/2018	US   Pending   16/139,453	Rovi Guides, Inc.
YSTEMS AND METHODS FOR RECORDING RELEVANT PORTICINS OF A MEDIA ASSET	Rovi Guides, Inc. SYSTEMS						12/17/2018	US Pending 16/222,672	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR GENERATING A MEDIA-PASED RESULT TO AN AMBIGUOUS QUERY							08/30/2018	Pending	Ravi Guides, Inc.
SYSTEMS AND METHODS TO ASSIST SWITCH TO MANUAL MODE IN SELF-DRIVING VEHICLES IN CASES OF PERCEINED EMERCENCY	Rovi Guides, Inc. SYSTEMS						08/30/2018	US Pending 16/118,317	Rovi Guides, Inc.
SYSTEM AND METHOD FOR METADATA-LIMIED ADVERTISEMENTS	Rovi Guides, Inc. SYSTEM A	03/30/2021	09/17/2019	10,419,824	12/20/2018	20180367867	06/20/2018	Issued	Ravi Guides, Inc.
YISTEM AND METHOD FOR METADATA-LINKED ADVERTISEMENTS		03/30/2021	17/03/2018	10,015,562		20150128176	10/10/2014	Issued	Rovi Guides, Inc.
SYSTEM AND METHOD FOR METADATA-LINKED ADVERTISEMENTS		02/24/2022	0.192014	3,003,170		20100100020	8002/01/21	SSUBG	Guides, Inc.
YSTEMS AND METHODS FOR DISLAYING NOTIFICIATIONS OF ATTOPATED DYNAMIC EVERTS ON A MEDA PROCRESS INDICATOR				170			01/202000	Bullpula	Roy Guides, Inc.
SYSTEMS AND METHODS FOR PERFORMING ACTIONS ON NETWORK-CONNECTED OBJECTS IN RESPONSE TO REMINDERS ON DEVICES BASED ON ANACTION CHITERION							8107/87/90	rending	Roy Guides, Inc.
SELECTIVELY DELIVERING A TRANSLATION FOR A MEDIA ASSET BASED ON USER PROFICIENCY LEVEL IN THE FOREIGN LANGUAGE AND PROFICIENCY LEVEL REQUIRED TO COMPREHEND THE MEDIA ASSET							06/29/2018	Pending	Roy Guides, Inc.
PROVIDING RECOMMENDATIONS BASED ON PASSIVE MIGROPHONE DETECTIONS							000000000000000000000000000000000000000	2	Guides, inc.
JETHODS AND SYSTEMS FOR PROVIDING UNCORRUPTED MEDIA ASSETS	-						07/10/2018	O CO	Boyl Guides Inc
YSTEMS AND METHODS FOR RECOMMENDING MEDIA ASSETS BASED ON OBJECTS CAPTURED IN VISUAL ASSETS							0102/82/00	O Tending	Boyl Guides, inc.
HETHODS AND SYSTEMS FOR UPDATING METADATA OF A MEDIA ASSET	, inc						0102/02/00	rending	Roy Guides, Inc.
SYSTEM AND METHOD FOR DETECTION OF, PREVENTION OF, AND RECOVERY FROM SOFTWARE EXECUTION FALURE							0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	D Pending	Roy Guides, inc.
YSTEMS AND METHODS FOR DISPLAYING MULTIPLE MEDIA ASSETS FOR A PLIPALITY OF USERS							BIDZII ZWI	US Pending 189636,727	Roy Guides, inc.
SYSTEMS AND METHODS FOR DISPLAYING MULTIPLE MEDIA ASSETS FOR A FLURAUTY OF USERS							01.07/5 7/80	rending	Roy Guides, Inc.
NYSTEMS AND METHODS FOR REDUCING CUT-OFFS IN PROGRAM RECORDING					07/13/2017	20170201713	11/2/2/2016	Pending	Roy Guides, Inc.
SYSTEMS AND METHODS FOR REDUCING CUT-OFFS IN PROGRAM RECORDING	, Inc.	03/29/2021	2/20/2016	3,525,914	07/28/2016	20160219334	04/04/2016	Issued	Rovi Guides, Inc.
EDUGING GUT-OFFS IN PROGRAM RECORDING		05/26/2023	14/05/2016	3,307,278	08/26/2010	20100215341	05/06/2010	Issued	Rovi Guides, Inc.
VISITEMS AND METHODS FOR EVALUATING A PROMOTIONAL CAMPAIGN	Ravi Guides, Inc. SYSTEMS				10/17/2019	20190320223	03/14/2019	US Pending 16/353,340	Rovi Guides, Inc.
T MEDIA ASSET FOR ADVERTISING THE TARGET MEDIA ASSET WHILE THE USER WATCHES A MEDIA ASSET	Rovi Guides, Inc. SYSTEM A						06/26/2018	US Pending 16/018,859	Rovi Guides, Inc.
	Ravi Guides, Inc. METHODS						11/29/2018	US  Pending  16/204,191	Rovi Guides, Inc.
	Rovi Guides, Inc. METHODS	06/18/2038	11/15/2019	0,180,983			06/18/2018	US Issued 16/010,921	Rovi Guides, Inc.
	Rovi Guides, Inc. SYSTEMS						07/10/2019	US Pending 16/507,420	Rovi Guides, Inc.
	Rovi Guides, Inc. SYSTEMS	05/30/2038	18/20/2019	10,390,097			05/30/2018	US Issued 15/992,967	Rovi Guides, Inc.
NT	-						06/25/2018	US Pending 16/017,532	Rovi Guides, Inc.
	Rovi Guides, Inc. SYSTEMS						06/22/2018	US Pending 16/016,084	Rovi Guides, Inc.
	Ravi Guides, Inc. SYSTEMS						06/26/2018	US Pending 16/018,908	Rovi Guides, Inc.
UNING A LIVE VIDEO	Rovi Guides, Inc. SYSTEMS						06/29/2018	US Pending 16/023,457	Rovi Guides, Inc.
UCTIONAL COMMENTATING	Ravi Guides, Inc. SYSTEMS						07/12/2018	US Pending 16/033,711	Rovi Guides, Inc.
	Ravi Guides, Inc. SYSTEMS						06/25/2019	US Pending 16/451,823	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR CREATING CUSTONIZED CONTENT	Ravi Guides, Inc. SYSTEMS						03/25/2019	US Pending 16/363,919	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR CONNECTING PRIVATE DEVICES TO PUBLIC DEVICES ACCORDING TO CONNECTION PARAMETERS	Rovi Guides, Inc. SYSTEMS						05/10/2018	US   Pending   15/976,435	Rovi Guides, Inc.

	SYSTEMS AND METHODS FOR PROVIDING STORAGE OF DATA ON SERVERS IN AN ONDEMAND MEDIA DELIVERY SYSTEM	Rovi Guides, Inc.	10/09/2021	10/04/2016	9,462,317	03/26/2015	2014 20150089534	12/03/2014	US Issued 14/559,781	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR RELOCATING MEDIA	Rovi Guides, Inc.	10/09/2021	03/03/2015	8,973,069	02/06/2014	2013 20140040938	10/08/2013	US Issued 14/048,818	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR RELOCATING MEDIA	Rovi Guides, Inc.	04/12/2022	11/12/2013	8,584,184	06/02/2011	2011 20110131607	02/08/2	US Issued 13/023,842	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR RELOCATING MEDIA	Rovi Guides, Inc.	08/19/2022	03/29/2011	7,917,933 C1	05/28/2009	2008 20090138922	08/28/2008	US Issued 12/200,593	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING STORAGE OF DATA ON SERVERS IN AN ONDEMAND MEDIA DELIVERY SYSTEM	Rovi Guides, Inc.	09/28/2027	01/19/2010	7,650,621	05/16/2002	- 21	10/08/2	Issued	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR MANAGING THE DISTRIBUTION OF ONDEMAND MEDIA	Rovi Guides, Inc.	10/09/2021	10/16/2012	8,291,461	07/22/2010	20100186025	12/15/2009	US Issued 12/637,922	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR COMMUNICATING AND ENFORCING VIEWING AND RECORDING LIMITS FOR MEDIA-ON-DEMAND	Rovi Guides, Inc.	05/14/2024	11/24/2015	9,197,916	05/26/2011		09/13/2010	Issued	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING AUDIO-BASED GUIDANCE	Rovi Guides, Inc.	02/05/2022	06/20/2017	9,686,595	11/03/2016	_	03/31/2016	US Issued 15/087,634	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING AUDIO-BASED GUIDANCE	Rovi Guides, Inc.	02/06/2022	12/11/2018	10,154,318	04/16/2015		12/17/2014	US Issued 14/573,448	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING AUDIO-BASED GUIDANCE	Royl Guides, Inc.	02/05/2022	02/03/2015	8,949,902		+	07/27/2	Issued	Roy Guides, Inc.
	METHODS AND SYSTEMS FOR PREDICTIVE BUFFERING OF RELATED CONTENT SEGMENTS	ROYI Guides, Inc.					000	1020200	1000	ROW Guides, inc.
	INTELLIGENT DISPLAY OF CONTENT	Royl Guides, Inc.					018	102121110	Tending	Roy Guides, inc.
	INTELLIGENT DISPLAY OF CONTENT	ROYI Guides, Inc.					1/2010	11212	Pending	Roy Guides, inc.
	INTELLIGENT DISPLAY OF CONTENT	ROVI Guides, Inc.					018	11/2/1/2/11	granding	Roy Guides, Inc.
	AUGMENTATION OF AUDIONIDEO CONTENT WITH ENHANCED INTERACTIVE CONTENT	ROYI Guides, Inc.					12018	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	n Telegraphic	Now Guides, inc.
	SYSTEMS AND METHODS FOR AUTOMATED PREDICTIVE PRODUCT PROCUREMENT	Novi Guides, inc.					6 6	0102/02/80	2 0	Sources, Inc.
	SYSTEMS AND METHODS FOR CREATING QUERY RESULTS DISPLAYS	ROYI Guides, Inc.					96/2018	002/80	rending	Roy Guides, inc.
	SYSTEMS AND METHODS FOR EMULATING AN ENVIRONMENT GREATED BY THE OUTPUTS OF A PLURALITY OF DEVICES	ROVI Guides, Inc.					218	aluz/gn/m	rending	Roy Guides, Inc.
	SYSTEMS AND METHODS FOR DETECTING PROBLEMS INPUTTING TEXT WITH A TOUCH ENVIRONMENT AND PROVIDING SOLUTIONS	Royl Guides, Inc.					97018	00000	D Pending	Port Criddes Inc.
	SYSTEMS AND METHODS FOR TRAINING A CONTROL SYSTEM BASED ON PRIOR AUDIO INPUTS	Novi Guides, inc.					6 6	112772010	9	Sources, Inc.
	SYSTEMS AND METHODS FOR RESUMING PLAYBACK ON A NEXT AVAILABLE ACTIVE DEVICE	Povi Guides, Inc.					0	44.07.000	9 7	Povi Guides, Inc.
	SYSTEMS AND METHODS FOR ADJUSTING BUFFER SIZE	Doni Cuidon Inc						ophanio o	9	Door Cuidos Inc
	SYSTEMS AND METHODS FOR GENERATING A PRODUCT RECOMMENDATION IN A VIRTUAL TRY-ON SESSION	Dovi Cuidee Inc					5	00/05/0	0 0	Dovi Guides Inc
	SYSTEMS AND METHODS FOR AUTOMATIC SUBSCRIPTION-BASED ORDERING OF PRODUCT COMPONENTS	Bryd Guides Inc					0010	100000018	D S	Povi Guides Inc
	SYSTEMS AND METHODS FOR DELIVERY OF CONTENT VIA MULTICAST AND UNICAST	Roy Guides Inc					2018	12/17/2018	Dending u	Roy Guides Inc
	SYSTEMS AND METHODS FOR USING PORTABLE DEVICE WITH A CODE SCANNER	Royl Guides Inc	011111111111111111111111111111111111111	0.02012000	0,100,400		0018	8100/80/80	US Pending 16/145 390	Roy Guides Inc
	SYSTEMS AND METHODS FOR OVERRIDING USER INPUT OF COMMANDS IN A MULTI-USER ENVIRONMENT	D colding	0744	0000000	0 700 050		0,000	00000		
	SYSTEMS AND METHODS FOR OPTIMIZING DELIVERY OF CONTENT RECOMMENDATIONS	Rovi Guides, Inc.					2018	10/24/2	Pendina	Royi Guides, Inc.
		Rovi Guides, Inc.					0018	10/04/2018	US Pending 16/152,075	Roy Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING ANTICIPATORY SEARCH RESULTS FOR A QUERY						0/2018	10/10/2	Dending of	Royi Guides Inc
	SYSTEMS AND METHODS FOR CUSTOMIZING PLAYBACK OF DIGITAL TUTORIALS	Royi Guides, Inc.					0018	10/09/2018	Pending	Royl Guides, Inc.
	SYSTEMS AND METHODS FOR REPLAYING A STEP OF A DIGITAL TUTORIAL	Rovi Guides, Inc.					2018	12/19/2018	Pending	Rovi Guides, Inc.
	NI EKACI VE MEDIA GODE WITH MEDIA GODANCE IN EKACE	Rovi Guides, Inc.					2018	12/19/2018	US Pending 16/225,022	Rovi Guides, Inc.
	INTERPACTIVE MEDIA CHIPE MATLLEDA CHIPANCE INTERPACAT	Rovi Guides, Inc.				11/19/2015	2015 20150334462	07/24/2015	US Pending 14/808,616	Rovi Guides, Inc.
R	INTERPORTIVE MEDIA GUIDE WITH MEDIA GUIDANGE INTEREAGE	Rovi Guides, Inc.	04/10/2021	11/17/2015	9,191,716	07/24/2014	2014 20140208358	03/24/2	US Issued 14/223,706	Royl Guides, Inc.
	INTERACTIVE MEDIA CLIENE WITH MEDIA CLIENANCE INTERESCO	Rovi Guides, Inc.	04/10/2021	05/20/2014	8,732,756	08/22/2013	20130219430	03/18/2013	US Issued 13/845,809	Rovi Guides, Inc.
E		Rovi Guides, Inc.	08/27/2021	04/16/2013	8,424,038	07/14/2011	2011 20110173657	01/13/2011	US Issued 13/005,975	Rovi Guides, Inc.
L	INTERACTIVE MEDIA CUIDE WATH MEDIA CUIDANCE INTERPACE	Rovi Guides, Inc.	08/27/2021	02/22/2011	7,895,624		2001	04/10/2001	US Issued 09/829,806	Rovi Guides, Inc.
: (	SYSTEMS AND METHODS FOR BEDI AVING CONTENT DIALOGUE IN AN ALTERNATE LANGUAGE	Rovi Guides, Inc.					16/2018	10/16/2	US Pending 16/161,883	Royl Guides, Inc.
05	SYSTEMS AND METHOD SIGN INDICATING DROOGRESS WITHIN A MEDIA ASSET	Rovi Guides, Inc.					2018	10/12/2018	US Pending 16/159,159	Rovi Guides, Inc.
F 53	SYSTEMS AND METHODS FOR PROVIDING NOTIFICATIONS WITHIN A MEDIA ASSET WITHOUT BREAKING IMMERSION	Rovi Guides, Inc.					2018	09/27/2018	US Pending 16/144,395	Rovi Guides, Inc.
o / 4:	SYSTEM AND METHOD TO RETRIEVE A SECURE MESSAGE WHEN A DISPLAY OF A MOBILE DEVICE IS INACCESSIBLE	Rovi Guides, Inc.					2018	10/16/2018	US Pending 16/161,649	Rovi Guides, Inc.
ר 58	EXPIRING SYNCHRONIZED SUPPLEMENTAL CONTENT IN TIME-SHIFTED MEDIA	Rovi Guides, Inc.					2018	09/25/2018	US Pending 16/141,206	Royl Guides, Inc.
<b>B F</b>	METHOD AND SYSTEMS FOR PROVIDING PERSONALIZED SUPPLEMENTAL AUDIO STREAMS	Rovi Guides, Inc.					2018	09/20/2018	US Pending 16/137,296	Rovi Guides, Inc.
:N	METHODS AND SYSTEMS GENERATING CURATED PLAYLISTS	Ravi Guides, Inc.					2018	12/03/2	US Pending 16/208,093	Rovi Guides, Inc.
IT R/	SYSTEMS AND METHODS FOR TEMPORARILY LIGENSING CONTENT	Rovi Guides, Inc.					1/2018	09/21/2	US   Pending   16/138,143	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR CURATION AND DELIVERY OF CONTENT FOR USE IN ELECTRONIC CALLS	Rovi Guides, Inc.					2018	09/26/2018	Pending	Rovi Guides, Inc.
И	SYSTEMS AND METHODS FOR CURATION AND DELIVERY OF CONTENT FOR USE IN ELECTRONIC CALLS	Rayi Guides, Inc.					2018	09/26/2018	US Pending 16/143,249	Rovi Guides, Inc.
<b>:</b> :	SYSTEMS AND METHODS FOR MODIFYING DATE-RELATED REFERENCES OF A MEDIA ASSET TO REFLECT ABSOLUTE DATES	Rovi Guides, Inc.					2018	09/28/2018	US   Pending   16/145,551	Rovi Guides, Inc.
0		Rovi Guides, Inc.					2018	09/26/2	Pending	Rovi Guides, Inc.
8	USER SPEECH INTERFACES FOR INTERACTIVE MEDIA GUIDANCE APPLICATIONS	Rovi Guides, Inc.				12/20/2018	2018 20180364977	08/23/2018	US   Pending   16/111,005	Rovi Guides, Inc.
45	USER SPEECH INTERFACES FOR INTERACTIVE MEDIA GUIDANCE APPLICATIONS	Rovi Guides, Inc.				10/18/2018	20180300104	06/25/2018	US Pending 16/017,828	Rovi Guides, Inc.
5	USER SPEECH INTERFACES FOR INTERACTIVE MEDIA GUIDANCE APPLICATIONS	Rovi Guides, Inc.	03/30/2021	09/25/2018	10,083,005	08/11/2016	_	04/21/2	Issued	Rovi Guides, Inc.
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CONTENT RECOMMENDATION BASED ON GAME PROGRESS	Rovi Guides, Inc.			03/28/2018	US Pending 16/370,150	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR IDENTIFYING UNKNOWN USERS OF A DEVICE TO PROVIDE PERSONALIZED USER PROFILES	Rovi Guides, Inc.			03/26/2019	US Pending 16/365,283	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR RECONCULNS PLAYBACK USING PROGRESS POINT INFORMATION	Rovi Guides, Inc.			03/13/2018	US Pending 16/352,701	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR PLAYBACK OF CONTENT USING PROGRESS DOINT INFORMATION	Rovi Guides, Inc.			03/13/2019	US   Pending   16/352,686	Rovi Guides, Inc.
OHURN ANULYSIS AND METHODS OF INTERVENTION	Rovi Guides, Inc.	02/15/2020		02/15/2019	Pending	Rovi Guides, Inc.
OHARN AND YISIS AND METHODS OF INTERVENTION	Rovi Guides, Inc.			05/01/2019	OS Pending 16/400,371	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR PROJUDING MEDIA COVIENT RECOMMENDATIONS	Rovi Guides, Inc.			03/29/2019	Pending	Roy Guides, Inc.
METHOD AND APPARATUS FOR DETERMINING PERIODS OF EXCESSIVE NOISE FOR RECEIVING SMART SPEAKER VOICE COMMANDS	Rovi Guides, Inc.			03/18/2019	Pending	Rovi Guides, Inc.
SYSTEMS AND METHADDS FOR PROVIDING MEDIA CONTEMT FOR CONTINUOUS WATCHING	Rovi Guides, Inc.			03/08/2018	Pending	Rovi Guides, Inc.
EVISITEMS AND METHADDS FOR PROVIDING MEDIA DON'TEM FOR COMPINADUS MATCHING	Rovi Guides, Inc.			03/08/2019	Pending	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR MODIFYING CONTENT RECOMMEDIATIONS BASED ON CONTENT AVAILABILITY ON OTHER PLATFORMS	ROY Guides, Inc.			031 0/2018	Pending	Royi Guides, Iric.
SYSTEMS AND METHODS FOR MEDIA CONTENT HAND-OFF BASED ON TYPE OF BUFFERED DATA	Royi Guides, Inc.			03/20/20/18	D T	Royl Guides, Inc.
SYSTEMS AND METHODS FOR MEDIA CONTENT HANDOFF	Boyl Guides Inc			010202020	Dending	Roy Guides Inc
SYSTEMS AND METHODS FOR PROCESSING SUBJECTIVE CUERIES	Royi Guides Inc			910019010	Dending (	Roy Guides Inc
SYSTEM AND METHOD FOR IDENTIFYING ALTERED CONTENT	Royi Guides, Inc.			03/20/2019	Pending	Royl Guides, Inc.
SYSTEM AND METHOD FOR IDENTIFYING ALTERED CONTENT	Rovi Guides, Inc.			03/26/2019	Pendina	Royi Guides, Inc.
SYSTEMS AND METHODS FOR SELECTIME AND/O SEGMENT COMPRESSION FOR ACCELERATED PLANDAGE, OF MEDIA, ASSETS BY SERVICE PROVIDERS	Rovi Guides, Inc.		1	03/26/2019	Pending	Rovi Guides, Inc.
	Rovi Guides, Inc.			03/19/2019	US Pending 16/357,725	Row Guides, Inc.
evertis and structure of our properties of the structure	Rovi Guides, Inc.			03/19/2019	US Pending 16/357,715	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR SELECTIVE AUDIO SEGMENT COMPRESSION FOR ACCELERATED PLAYBACK OF MEDIA ASSET'S	Rovi Guides, Inc.			03/19/2019	US Pending 16/357,705	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR MEDIA CONTENT (ANTIGATION AND FILTERING	Rovi Guides, Inc.			03/27/2019	US   Pending   16/366,394	Row Guides, Inc.
SYSTEMS AND RETHODS FOR MEDIA CONTENT NAVIGATION AND FILTERING	Rovi Guides, Inc.			03/27/2018	US   Pending   16/366,387	Rovi Guides, Inc.
NTELLIGENT DISPLAY OF CONTENT BASED ONEVENT MONITORING	Rovi Guides, Inc.			02/01/2019	Pending	Rovi Guides, Inc.
NTELLIGENT DISPLAY OF CONTENT BASED ONEVENT MONITORING	ROVI Guides, Inc.			BLOZZLOZZ	Tending	Roy Guides, Inc.
METADATA DISTRIBUTION AND MANAGEMENT VIA TRANSACTIONAL BLOCKGHAIN TECHNOLOGY				12/20/2018	rending	Royl Guides, Inc.
SYSTEMS AND METHODS FOR PROVIDING MEDIA ASSET RECOMMENDATIONS	Guides, Fig.			U3/20/20 18	Pilbria	Guides, inc.
SYSTEMS AND METHODS FOR DISPLAYING SUBJECTS OF A VIDEO PORTION OF CONTENT	Davi Ouides Inc.			02325000	0 0	Box Cuidos Inc.
SYSTEMS AND METHODS FOR DISPLAYING SUBJECTS OF ANALIDIO PORTION OF CONTENT	Boyl Guides Inc			12/20/2018	Dending	Roy Guides Inc
DEEP REINFORCIMENT LEARNING FOR PERSONALIZED SOREEN CONTINUT OPTIMIZATION	Rovi Guides Inc			12/20/2018	Pending	Roy Guides Inc
SYSTEMS AND METHODS FOR PROVIDING SUBTITLES BASED ON LANGUAGE PROFICIENCY	Rovi Guides, Inc.			12/20/2018	Pending	Rovi Guides, Inc.
BYSTEMS AND METHODS FOR OPTIMEING A SET-TOP BOX TO RETRIBUE MISSED CONTENT	Rovi Guides, Inc.			12/17/2018	Pendina	Rovi Guides, Inc.
SASTEMS AND WELHOUS FOR DAMANDALLY DISPLAYING A CAUDE INTERFACE ELEMENT BASED ON A CASTOMERUDINGTON	Rovi Guides, Inc.		 	11/30/2018	US Pending 16/205,990	Royl Guides, Inc.
	Rovi Guides, Inc.			12/18/2018	US Pending 16/223,705	Rovi Guides, Inc.
THE PARTY OF THE P	Rovi Guides, Inc.			12/14/2018	US Pending 16/220,663	Rovi Guides, Inc.
VOICE OF HEAV DEELEMENT TO DATE OF THE VOICE OF HEAV	Rovi Guides, Inc.			11/30/2018	US Pending 16/206,385	Rovi Guides, Inc.
CTORS WITH PROGRAM GENRES	Rovi Guides, Inc.			12/11/2018	US Pending 16/216,149	Royl Guides, Inc.
	Rovi Guides, Inc.			12/11/2018	US Pending 16/216,275	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR PROVIDING SEARCH OMERY RESPONSES HANNIG CONTEXTUALLY RELEVANT VOICE OUTPUT	Rovi Guides, Inc.			11/27/2018	US Pending 16/201,352	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR CACHING DATA IN MEDIA-ON-DEMAND SYSTEMS	Rovi Guides, Inc.		11/22/2018	07/27/2018 20180338162	US   Pending   16/047,955	Rovi Guides, Inc.
	Rovi Guides, Inc.	5 08/21/2018 10/09/2021	06/16/2016 10,057,605	02/08/2016 20160173914	US Issued  15/017,881	Rovi Guides, Inc.
	Rovi Guides, Inc.	03/08/2016 10/09/2021	01/29/2015 9,282,362	09/11/2014 20150033261	US Issued 14/483,767	Rovi Guides, Inc.
	Rovi Guides, Inc.	09/30/2014 10/09/2021	02/07/2013 8,850,499	08/01/2012 20130036433	US Issued  13/564,226	Rovi Guides, Inc.
	Rovi Guides, Inc.	08/28/2012 07/09/2025	04/11/2002 8,255,961	10/09/2001 20020042921	US Issued 09/974,666	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR INSERTING CONTEXTUAL ADVERTISEMENTS INTO A VIRTUAL ENVIRONMENT	Rovi Guides, Inc.			12/20/2018	US Pending 16/226,955	Royl Guides, Inc.
SYSTEMS AND METHODS FOR SUMMARIZING MISSED PORTIONS OF STORYLINES	Rovi Guides, Inc.			11/29/2018	US   Pending   16/204,507	Rovi Guides, Inc.
SYSTEMS AND METHADOS FOR DETECTING, ANALYZING, AND EVALUATING INTERACTION PATHS	Rovi Guides, Inc.			12/17/2018	US Pending 16/222,857	Rovi Guides, Inc.
	Rovi Guides, Inc.			02/28/2019	Pending	Rovi Guides, Inc.
WETHODS AND SYSTEMS FOR USING MICHIELESARING EXTRACTS AND SEMATIC GRAPHS TO CREATE STRUCTURED DATA TO DRIVE SEARCH, RECOMMENDATION, AND DISCOVERY	Rovi Guides, Inc.			02/28/2019	Pending	Royl Guldes, Inc.
SYSTEMS AND METHODS FOR GENERATING ALTERNATE AUDIO FOR A MEDIA STREAM	Rovi Guides, Inc.			10/04/2018	Pending	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR AUTOMATICALLY DETERMINING LANGUAGE SETTINGS FOR A MEDIA ASSET	Rovi Guides, Inc.			09/26/2018	Pending	Rovi Guides, Inc.
	Rovi Guides, Inc.			09/28/2018	Pending	Rayl Guides, Inc.
SYSTEMS AND METHODS FOR PROVIDING STORAGE OF DATA ON SERVERS IN AN OWDERWARD MEDIA DELIVERY SYSTEM	Rovi Guides, Inc.	7 10/08/2019 10/09/2021	06/07/2018 10,440,417	10/27/2017 20180160163	Issued	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR PROVIDING STORAGE OF DATA ON SERVERS IN AN ONDEMAID MEDIA DELIVERY SYSTEM	Rovi Guides, Inc.	10/31/2017	60	08/31/2016 20170055016	Issued	Rovi Guides, Inc.
SYSTEMS AND METHODS FOR PROVIDING STORAGE OF DATA ON SERVERS IN AN ONDEWAND MEDIA DELIVERY SYSTEM	Rovi Guides, Inc.	03/22/2016		-	Issued	Rovi Guides, Inc.

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	SYSTEMS AND METHODS FOR GENERATING A PLAYBACK TIMELINE	Ravi Guides, Inc.			60	05/28/2011	US Pending 16/424,237	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR SWITCHING CONTENT PROVIDERS TO MAINTAIN STREAMING EXPERIENCE	Rovi Guides, Inc.			9	05/20/2019	US   Pending   16/417,261	Rovi Guides, Inc.
	AUTOMATIC DEVICE VOLUME ADJUSTMENT BASED ON LEARNED VOLUME PREFERENCES	Rovi Guides, Inc.			60	06/14/2019	US Pending 16/441,549	Rovi Guides, Inc.
	SEARCH AND RECOMMENDATION OF MEDIA ASSETS THROUGH CONVERSATIONAL USE OF CATCHPHRASES	Ravi Guides, Inc.			60	06/17/2019	Pending	Rovi Guides, Inc.
ITS	SYSTEMS AND METHODS FOR MEDIA QUALITY SELECTION OF MEDIA ASSETS BASED ON INTERNET SERVICE PROVIDER DATA USAGE LIMITS	ROVI Galdes, Inc.			•	02/25/00	Bulbua	Roy Galdes, Iric.
	ENHANCING A SOCIAL MEDIA POST WITH CONTENT THAT IS RELEVANT TO THE AUDIENCE OF THE POST	Roy Guides, Inc.			φ	RIDZI/Zian	g	RBW Guides, Inc.
	METHODS AND SYSTEMS FOR FACILITATING APPLICATION PROGRAMMING INTERFACE COMMUNICATIONS	Rovi Guides, Inc.			, w	06/04/2018	Pending	Royl Guides, Inc.
	METHODS AND SYSTEMS FOR FACILITATING APPLICATION PROGRAMMING INTERFACE COMMUNICATIONS	Rovi Guides, Inc.			6	06/04/2019	Pending	Rovi Guides, Inc.
	AUDIO AND VIDEO SOURCE FOR CAR	Rovi Guides, Inc.	04/08/2020		6	04/08/2019	Pending	Rovi Guides, Inc.
	AUTOMATED CONTENT ON A VEHICLE IN MOTION	Rovi Guides, Inc.			6	08/29/2019	Pending	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR DISPLAYING INTERACTIVE CONTENT ITEM FOR A PREDETERMINED DURATION	Royl Guides, Inc.			6	06/28/2019	Pending	Royl Guides, Inc.
	LEARNING ACTIVITY DURATION FOR PROVIDING CONTENT DURING ACTIVITY	Rovi Guides, Inc.			ο ω	05/29/2019	Pending	Rovi Guides, Inc.
	METHOD AND APPARATUS FOR IMPROVED ELECTRONIC MAIL FILTERING USING MEDIA VIEWING HISTORY	Royi Guides, Inc.			, e	00/10/2018	rending	Roy Guides, Iric.
	WORD CORRECTION USING AUTOMATIC SPEECH RECOGNITIONS (ASR) INCREMENTAL RESPONSE	Novi Guides, Inc.			) e	02/02/02/03	9	Ouldes, inc.
	SYSTEMS AND METHODS FOR DISAMBIGUATING A VOICE SEARCH QUERY	Royi Guides, Inc.			ο α	02000000	o rending	Roy Guides, Iric.
	ELECTRONIC PROGRAM GUIDE WITH BLACKOUT FEATURES	Now Guides, inc.		122/2016	20100000100	01000000	9	Guides, Fig.
	ELECTRONIC PROGRAM GUIDE WITH BLACKOUT FEATURES	Poul Cuides Inc	L.	ļ.,	20150225183	07/20/201	O social	Doyl Guides Inc
	ELECTRONIC PROGRAM GUIDE WITH BLACKOUT FEATURES	Royi Guides Inc	08/24/2018 11/28/2021	V2015 10.057.652		08/07/201	SSI INC.	Roy Guides Inc
		Royi Guides Inc			20110067067	100/1701	Semes	Royi Guides Inc
	ELECTRONIC PROGRAM GUIDE WITH BLACKOUT FEATURES	Royi Guides Inc		1	20090178074	BUUCIC LIEU	la l	Roy Guides Inc
	ELECTRONIC PROGRAM GUIDE WITH BLACKOUT FEATURES	Royi Guides, Inc.	_	07/03/2008 7.523,477	20080163304	03/14/2008	Issued	Royl Guides, Inc.
	STS IEMS AND METHOUS FOR GENERATING CONTENT FOR A SCREENFLAT	Royl Guides, Inc.	05/06/2008 10/05/2024	7,370,343		11/28/2001	US Issued 09/996,346	Royl Guides, Inc.
	CONTRACTOR AND AUTHORS FOR CONTRACTOR AND CONTRACTOR AND CONTRACTOR AND AUTHORS CONTRACTOR	Rovi Guides, Inc.			60	07/19/2019	US Pending 16/517,322	Rovi Guides, Inc.
	SALLAND WELLTOOK EUG DE MENTAL LOUTENT BOOK EUG SALLAND STAND WELL SALLAND WITH THE SALLAND WITH THE SALLAND WELL SALLAND	Rovi Guides, Inc.			60	06/26/2019	US Pending 16/453,841	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR DYNAMIC VISUAL ADJUSTMENTS FOR A MAP OVERLAY	Rovi Guides, Inc.			69	05/24/2019	US Pending 16/421,841	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR MULTIPLE BIT RATE CONTENT ENCODING	Ravi Guides, Inc.			6	06/12/2019	US Pending 16/438,784	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR OPTIMIZED DISCOVERY OF FRESH CONTENT IN A DYNAMIC INTERACTIVE GUIDE	Rovi Guides, Inc.			9	06/12/2019	US   Pending   16/439,394	Royl Guides, Inc.
	PERSONALIZED MEDIA GUIDE FOR OFFLINE MEDIA DEVICES	Rovi Guides, Inc.			60	04/30/2019	US Pending 16/399,753	Rovi Guides, Inc.
	ADAPTIVE ON-SCREEN GUIDE BASED ON CHANNEL OR CONTENT TRANSITION COMMANDS	Royl Guides, Inc.			60	05/31/2019	Pending	Rovi Guides, Inc.
	ADAPTIVE ON-SCREEN GUIDE BASED ON CHANNEL OR CONTENT TRANSITION COMMANDS	Royl Guides, Inc.			60	05/31/2019	Pending	Royl Guides, Inc.
	SYSTEMS AND METHODS FOR DETERMINING WHETHER TO MODIFY CONTENT	Ravi Guides, Inc.			60	05/06/2019	US Pending 16/404,531	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR DETERMINING PORTIONS OF MEDIA ASSETS FOR IMMEDIATE RETRIEVAL BY MULTIPLE DEVICES	Rovi Guides, Inc.			9	07/12/2019	US   Pending   16/510,783	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR ENABLING TOPIC-BASED VERBAL INTERACTION WITH A VIRTUAL ASSISTANT	Rovi Guides, Inc.			6	04/26/2019	US Pending 16/396,106	Rovi Guides, Inc.
	SYSTEM AND METHOD TO AVOID SENDING A MESSAGE TO THE UNINTENDED RECIPIENT	Rovi Guides, Inc.			60	05/09/2019	Pending	Rovi Guides, Inc.
F	SYSTEMS AND METHODS FOR CONTENT RIGHTS PORTABILITY	Rovi Guides, Inc.			60	06/13/201	Pending	Royl Guides, Inc.
RE	METHOD AND APPARATUS FOR MODIFYING OUTPUT CHARACTERISTICS OF PROXIMATE DEVICES	Rovi Guides, Inc.			6	04/24/2019	Pending	Rovi Guides, Inc.
EE	METHOD AND APPARATUS FOR MODIFYING OUTPUT CHARACTERISTICS OF PROXIMATE DEVICES	Rovi Guides, Inc.			60	04/24/2019	Pending	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PERSONALIZING MESSAGES BASED ON A RECIPIENT RELATIONSHIP	Rovi Guides, Inc.			9	03/29/2019	Pending	Rovi Guides, Inc.
••	BIAS QUOTIENT MEASUREMENT AND DEBIASING FOR RECOMMENDATION ENGINES	Rovi Guides, Inc.			60	03/29/2019	US   Pending   16/370,181	Royl Guides, Inc.
0	METHOD AND APPARATUS FOR REDIRECTING PORTIONS OF CONTENT TO ALTERNATE COMMUNICATION CHANNELS	Rovi Guides, Inc.			9	05/09/2019	US Pending 16/408,244	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR SELECTING IMAGES FOR PLACEMENT IN PORTIONS OF A GRAPHICAL LAYOUT	Rovi Guides, Inc.			9	03/27/2019	US   Pending   16/366,562	Rovi Guides, Inc.
DS OF DEPICTED FACES	SASTENS AND WELHOOS LOW LYPICE LANGUAGES LOW BY THE CHARACTERISTICS OF DEPICTED LYCES.	Rovi Guides, Inc.			9	03/27/2019	US   Pending   16/366,552	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR TAGGING IMAGES FOR PLACEMENT IN PORTIONS OF A GRAPHICAL LAYOUT BASED ON IMAGE CHARACTERISTICS	Royl Guides, Inc.			69	03/27/2019	US   Pending   16/366,548	Royl Guides, Inc.
ΓE 3	SYSTEMS AND METHODS FOR MODIFYING MODULATED SIGNALS FOR TRANSMISSION	Rovi Guides, Inc.			9	04/12/2019	US   Pending   16/383,107	Rovi Guides, Inc.
E F	SYSTEMS AND METHODS FOR GENERATING BANDWIDTH CONSTRAINED RECOMMENDATIONS	Rovi Guides, Inc.			8	03/26/2019	US Pending 16/365,288	Rovi Guides, Inc.
IT R/	SYSTEMS AND METHODS FOR GENERATING BANDWIDTH CONSTRAINED RECOMMENDATIONS	Rovi Guides, Inc.			6	03/26/201	Pending	Rovi Guides, Inc.
114	REPLACING A BACKGROUND PORTION OF AN IMAGE	Rovi Guides, Inc.			60	03/27/2019	Pending	Rovi Guides, Inc.
ИІ	REPLACING A BACKGROUND PORTION OF AN IMAGE	Rovi Guides, Inc.			60	03/27/2019	Pending	Rovi Guides, Inc.
E:	REPLACING A BACKGROUND PORTION OF AN IMAGE	Rovi Guides, Inc.			60	03/27/2019	Pending	Rovi Guides, Inc.
0	REPLACING A BACKGROUND PORTION OF AN IMAGE	Rovi Guides, Inc.			9	03/27/2019	Pending	Rovi Guides, Inc.
8	METHOD AND APPARATUS FOR IDENTIFYING A SINGLE USER REQUESTING CONFLICTING CONTENT AND RESOLVING SAID CONFLICT	Rovi Guides, Inc.			8	03/27/2019	US   Pending   16/366,085	Rovi Guides, Inc.
47	METHOD AND APPARATUS FOR IDENTIFYING A SINGLE USER REQUESTING CONFLICTING CONTENT AND RESOLVING SAID CONFLICT	Rovi Guides, Inc.			9	03/27/2019	US Pending 16/366,072	Rovi Guides, Inc.
7	CONTENT RECOMMENDATION BASED ON GAME PROGRESS	Rovi Guides, Inc.				03/29/2019	Pending	Rovi Guides, Inc.

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Column	Roy Guides, ITC.	L.	CONTRACT IN	ROYI Guides, Inc.	SYSTEMS AND METHODS FOR GENERATING A PLAYBACK TIMELINE
Professional Content	Rovi Guides, Inc.	Pending	06/06/2019	Rovi Guides, Inc.	SYSTEMS AND METHODS FOR CONTROLLING ACCESS FROM A FIRST CONTENT PLATFORM TO CONTENT ITEMS AVAILABLE ON A SECOND CONTENT PLATFORM
Color   Colo	Rovi Guides, Inc.	Pending	07/25/2019	Rovi Guides, Inc.	AUTOMATED REGENERATION OF LOW QUALITY CONTENT TO HIGH QUALITY CONTENT
1   1   1   1   1   1   1   1   1   1	Rovi Guides, Inc.	Pending	10/21/2019	Rovi Guides, Inc.	
Property   1975   197	Rovi Guides, Inc.	Pending	06/20/2018	Rovi Guides, Inc.	
1   1   1   1   1   1   1   1   1   1	Rovi Guides, Inc.	Pending	07/31/2019	Rovi Guides, Inc.	
Column	Rovi Guides, Inc.	Pending	07/31/2019	Rovi Guides, Inc.	SYSTEMS AND METHODS FOR MANAGING VOICE QUERES USING PRONUNCIATION INFORMATION
Column   C	Rovi Guides, Inc.	Pending	07/3/1/2019	Rovi Guides, Inc.	
CANN.	Rovi Guides, Inc.	Pending	05/28/2018	Rovi Guides, Inc.	NELS
Process   Proc	Rovi Guides, Inc.	Pending	08/27/2019	Rovi Guides, Inc.	
Column   C	Rovi Guides, Inc.	Pending	05/30/2019	Rovi Guides, Inc.	
1   1   1   1   1   1   1   1   1   1	Rovi Guides, Inc.	Pending		Rovi Guides, Inc.	TON IN THE ENTERTAINMENT DOMAIN
1   1   1   1   1   1   1   1   1   1	Rovi Guides, Inc.	Pending	07/23/2018	Rovi Guides, Inc.	
1   11   11   11   11   11   11   11	Rovi Guides, Inc.	Pending	07/23/2019	Rovi Guides, Inc.	
100   Security   GASSAGES   CONTROLS   CON	Rovi Guides, Inc.	Pending	07/23/2018	Rovi Guides, Inc.	
100   Permina   GARCACACACACACACACACACACACACACACACACACAC	Rovi Guides, Inc.	Pending	07/09/2019	Rovi Guides, Inc.	SYSTEM AND METHODS TO DENOTE UNSHARED CONTENT TO BE SHARED
100   Parting   GLES, SAL   DATE CORE	Rovi Guides, Inc.	Pending	05/31/2019	Rovi Guides, Inc.	STYLING A QUERY RESPONSE BASED ON A SUBJECT IDENTIFIED IN THE QUERY
US   Parellon   GRASI ANS   GRASINE   GRASINE   CRUS   C	Rovi Guides, Inc.	Pending	06/27/2019	Rovi Guides, Inc.	METHODS AND SYSTEMS FOR PERSONALIZED SCREEN CONTENT OPTIMIZATION
Deciding   Colorat July   Coloration   Deciding   De	Rovi Guides, Inc.	Pending	09/05/2019	Rovi Guides, Inc.	EVOLUTIONARY PARAMETER OPTIMIZATION FOR SELECTING OPTIMAL PERSONALIZED SCREEN CAROUSELS
100   Penning (9444 173	Rovi Guides, Inc.	Pending	08/15/2019	Rovi Guides, Inc.	SYSTEMS AND METHODS FOR PUSHING CONTENT
168   Provincial (1664-1677   604-15076   604-1677   604-15076   604-1677	Rovi Guides, Inc.	Pending	08/15/2019	Ravi Guides, Inc.	SYSTEMS AND METHODS FOR PUSHING CONTENT
108   Princing   16442/252   2002/2016	Rovi Guides, Inc.	Pending	08/1 5/2019	Rovi Guides, Inc.	SYSTEMS AND METHODS FOR PUSHING CONTENT
December	Roy Guides, Inc.	Tending	08/27/2019	Royi Guides, Inc.	SYSTEMS AND METHODS FOR SCENE CHANGE RECOMMENDATIONS
US   Periodicy   Geology, 1949   Cologogy, 1949   Colog	Roy Gudes, Inc.	T BILLING	RI DZZI ZKO	ROVI Guides, Inc.	SYSTEMS AND METHODS FOR SCENE CHANGE EVALUATION
US Pronting (4445728) 00282019	Royi Guides, Inc.	Pending g	08/28/2019	Royl Guides, Inc.	AUTOMATED CONTACT CREATION BASED ON CONTENT COMMUNICATIONS
March   Principal   Principa	D control of the cont		odreinge	District Control of the Control of t	AUTOMATED CONTACT DELETION BASED ON CONTENT COMMUNICATIONS
US Proving 10440,275 00450519 Revi Guides, Inc. 91  US Proving 10450,311 07320519 Revi Guides, Inc. 91  Revi Gui	Row Guides, Inc.	Pending	012312019	Rovi Guides, Inc.	AUTOMATED CONTACT UPDATING BASED ON CONTENT COMMUNICATIONS
US         Parading         CASSAS (S)         O7X302016         Row Guides, Inc.         AV           US         Parading         CASSAS (S)         D7X302016         Row Guides, Inc.         AV           US         Parading         CASTAS (S)         D7X202016         Row Guides, Inc.         AV           US         Parading         CASTAS (S)         D7X202016         Row Guides, Inc.         AV           US         Parading         CASTAS (S)         D7X202016         Row Guides, Inc.         AV           US         Parading         CASTAS (S)         D7X202016         Row Guides, Inc.         AV           US         Parading         CASTAS (S)         D7X202016         Row Guides, Inc.         AV           US         Parading         CASTAS (S)         D7X202016         Row Guides, Inc.         AV           US         Parading         CASTAS (S)         D7X202016         Row Guides, Inc.         AV           US         Parading         CASTAS (S)         D7X202016         Row Guides, Inc.         AV           US         Parading         CASTAS (S)         DXX202016         Row Guides, Inc.         AV           US         Parading         CASTAS (S)         DXX202016         Row Guid	Rovi Guides, Inc.	Pending	06/28/2019	Rovi Guides, Inc.	METHOD AND APPARATUS FOR CURATION OF CONTENT
US   Perioding   Geld 425,2843   Geld 227815   Geld 2278	Rovi Guides, Inc.	Pending	07/30/2019	Royi Guides, Inc.	A TO LINE AND MILITORY THAN A VALUE SERVICE AND A VALUE SERVICE AND A VALUE SERVICE AND A TO LINE AND A VALUE SERVICE AND A VA
US         Panding         GEST, SAG         C72,22015         Roy Guides, Fro.         50           US         Panding         GEST, SAG         C72,22016         Roy Guides, Fro.         50           US         Panding         GEST, SAG         C72,22016         Roy Guides, Fro.         40           US         Panding         GEST, 782         C72,22016         Roy Guides, Fro.         41           US         Panding         GEST, 782         C72,22018         Roy Guides, Fro.         41           US         Panding         GEST, 782         C72,22018         Roy Guides, Fro.         41           US         Panding         GEST, 782         C77,22018         Roy Guides, Fro.         42           US         Panding         GEST, 232         C77,22018         Roy Guides, Fro.         42           US         Panding         GEST, 232         C77,22018         Roy Guides, Fro.         42           US         Panding         GEST, 232         C77,22018         C77,22019         Roy Guides, Fro.         42           US         Panding         GEST, 232         C77,21019         Roy Guides, Fro.         42           US         Panding         GEST, 232         C72,12019         Roy G	Rovi Guides, Inc.	Pending	08/21/2019	Rovi Guides, Inc.	AND THE PROPERTY OF THE PROPER
US         Paroling         GESZ, SS4         07,202016         Roy Guides, Mr.         Mr.           US         Paroling         GESZ, 261         07,202016         Roy Guides, Mr.         FI           US         Paroling         GESZ, 261         07,202016         Roy Guides, Mr.         FI           US         Paroling         GESZ, 262         07,202018         Roy Guides, Mr.         FI           US         Paroling         GESZ, 262         07,202018         Roy Guides, Mr.         FI           US         Paroling         GESZ, 262         07,202018         Roy Guides, Mr.         FI           US         Paroling         GESZ, 262         07,202018         Roy Guides, Mr.         GE           US         Paroling         GESZ, 262         07,202018         Roy Guides, Mr.         GE           US         Paroling         GESZ, 262         07,202018         Roy Guides, Mr.         GE           US         Paroling         GESZ, 262         02,72218         Roy Guides, Mr.         GE           US         Paroling         GESZ, 262         02,72218         Roy Guides, Mr.         Mr.           US         Paroling         GESZ, 262         02,02218         Roy Guides, Mr. <td< td=""><td>Rovi Guides, Inc.</td><td>Pending</td><td>07/22/2019</td><td>Rovi Guides, Inc.</td><td>SYSTEMS AND METHODS FOR IDENTIFYING DYALLAND TYPES IN MODE OF EDGES</td></td<>	Rovi Guides, Inc.	Pending	07/22/2019	Rovi Guides, Inc.	SYSTEMS AND METHODS FOR IDENTIFYING DYALLAND TYPES IN MODE OF EDGES
US         Panding         GES2,781         073262016         Roy Guides, Pro.         FI           US         Panding         GES2,782         073262016         Roy Guides, Pro.         FI           US         Panding         GES2,2821         073262016         Roy Guides, Pro.         FI           US         Panding         GES2,2821         073262018         Roy Guides, Pro.         SY           US         Panding         GES2,2821         073262018         Roy Guides, Pro.         SY           US         Panding         GES2,2821         073262019         Roy Guides, Pro.         SY           US         Panding         GES2,2726         073262019         Roy Guides, Pro.         SY           US         Panding         GES2,2727         073262019         Roy Guides, Pro.         SY           US         Panding         GES2,725         082727019         Roy Guides, Pro.         SY           US         Panding         GES2,725         082727019         Roy Guides, Pro.         May           US         Panding         GES2,722         082027019         Roy Guides, Pro.         May           US         Panding         GES2,823         082027019         Roy Guides, Pro.         SY	Rovi Guides, Inc.	Pending	07/29/2019	Rovi Guides, Inc.	KETATO AND ABBASATIS CODERNING REPORT CONTEXT BY AX IN ALL TUPLING EMADONALITY
US         Parading         GESZ,1762         OTZGZOTG         Rom         Gard Gudes, Mrc.         Fill           US         Parading         GESZ,1762         OTZGZOTG         Rom         Grad Gudes, Mrc.         St           US         Parading         GESZ,2821         OTZGZOTG         Rom         Georgia, Mrc.         St           US         Parading         GESZ,1785         GETZGZOTG         Rom         GEORGIA, Mrc.         St           US         Parading         GESZ,1785         GETZGZOTG         Rom         GEORGIA, Mrc.         St           US         Parading         GESZ,1785         GETZGZOTG         GETZGZOTG         Rom         GEORGIA, Mrc.         Mrc           US         Parading         GESZ,1785         GETZGZOTG         GETZGZOTG         GETZGZOTG         Rom         GEZGZOTG         GEZGZOTG         GEZGZOTG         GEZGZOTG         GEZGZOTG         GEZGZOTG         GEZGZOTG         Mrc         GEZGZOTG         GEZGZOTG         Mrc         GEZGZOTG	Rovi Guides, Inc.	Pending	07/26/2019	Rovi Guides, Inc.	II TERRA AND AND AND AND AND AND AND AND AND AN
US         Pending         06252 851         272 82019         Bowlong         Control Coulete, Inc.         ST           US         Pending         0625 2822         072 32019         Rovi Guides, Inc.         ST           US         Pending         0645 2823         061 52019         Rovi Guides, Inc.         ST           US         Pending         0645 2273         061 52019         Rovi Guides, Inc.         ST           US         Pending         0645 2273         061 52019         Rovi Guides, Inc.         ST           US         Pending         0645 2273         061 52019         Rovi Guides, Inc.         ST           US         Pending         1645 272         061 52019         Rovi Guides, Inc.         Mori Guides, Inc.<	Rovi Guides, Inc.	Pending	07/26/2019	Ravi Guides, Inc.	FILTERNO MOEO CONTENT ITEMS
US         Pending         16552,282         0722,2018         Rovi Guides, Inc.         9           US         Pending         16541,785         051,52019         Rovi Guides, Inc.         9           US         Pending         16541,785         051,52019         Rovi Guides, Inc.         9           US         Pending         16540,2321         101,52019         Rovi Guides, Inc.         9           US         Pending         16540,2321         101,52019         Rovi Guides, Inc.         9           US         Pending         16540,782         102,72019         Rovi Guides, Inc.         9           US         Pending         16560,782         102,72019         Rovi Guides, Inc.         9           US         Pending         16560,782         102,72019         Rovi Guides, Inc.         9           US         Pending         16560,782         102,72019         Rovi Guides, Inc.         9           US         Pending         16562,832         102,12019         Rovi Guides, Inc.         9           US         Pending         16562,833         107,12019         Rovi Guides, Inc.         9           US         Pending         16562,833         107,12019         Rovi Guides, Inc.	Rovi Guides, Inc.	Pending	07/26/2018	Rovi Guides, Inc.	SYSTEMS AND METHODS FOR GENERATING SEARCH SUGGESTIONS FOR A SEARCH QUERY OF MULTIPLE ENTITIES
US         Pending         (454,1785)         605,02019         Ron/Guides, Inc.         St           US         Pending         (454,1785)         605,02019         Ron/Guides, Inc.         607,02019         Mon/Guides, Inc.         607,02019         607,02019         Mon/Guides, Inc.         607,02019         607,02019         607,02019         607,02019         607,02019         607,02019         607,02019         607,02019         607,02019         607,02019         607,02019	Rovi Guides, Inc.	Pending	07/23/2019	Rovi Guides, Inc.	SYSTEMS AND METHODS FOR APPLYING BEHAVIORAL-BASED PARENTAL CONTROLS FOR MEDIA ASSETS
US   Parting 1654,788   2615209     Roy Guides, Inc.   Stand Guides, I	Rovi Guides, Inc.	Pending	06/15/2019	Rovi Guides, Inc.	SYSTEMS AND METHODS FOR AUTOMATICALLY IDENTIFYING SPAM IN SOCIAL MEDIA COMMENTS
US   Penning 1646-0.271   1051-0209	Rovi Guides, Inc.	Pending	06/1.5/2019	Rovi Guides, Inc.	SYSTEMS AND METHODS FOR AUTOMATICALLY IDENTIFYING SPAM IN SOCIAL MEDIA COMMENTS BASED ON CONTEXT
US         Pending 6292.276         10162018         10162018         1016202         Roy of Judges, Inc.           US         Pending 16580, R2         06272019         Roy of Judges, Inc.         Roy of Judges, I	Rovi Guides, Inc.	Pending		Rovi Guides, Inc.	SELECTIVE PLAYBACK OF AUDIO AT NORMAL SPEED DURING TRICK PLAY OPERATIONS
US   Pending 16,583,782   002722719   Conditions, Inc.   Conditions,	Rovi Guides, Inc.	Pending		Rovi Guides, Inc.	NATURAL LANGUAGE QUERY HANDLING IN MULTI-DOMAIN SYSTEMS
US Printing 16580,395 00222299 Crozzos	Rovi Guides, Inc.	Pending	08/27/2018	Rovi Guides, Inc.	METHOD AND APPARATUS FOR MAINTAINING BANDWIDTH FOR ELECTRONIC CONTENT DISPLAY SYSTEM
US Pending 16557,244 06302019 Revi Guess, Inc.  US Pending 16557,248 06302019 Revi Guess, Inc.  US Pending 16557,242 06302019 Revi Guess, Inc.  US Pending 16558,235 07312019 Revi Guess, Inc.  US Pending 16558,235 07312019 Revi Guess, Inc.  US Pending 16558,237 07312019 Revi Guess, Inc.	Rovi Guides, Inc.	Pending	06/27/2019	Rovi Guides, Inc.	METHOD AND APPARATUS FOR MAINTAINING BANDWIDTH FOR ELECTRONIC CONTENT DISPLAY SYSTEM
US Pending 16557,942 06932219 Revi Judest, Fro.  US Pending 16557,942 06932219 Revi Judest, Fro.  US Pending 16558,933 07732219 Revi Judest, Fro.  US Pending 16558,933 07732219 Revi Judest, Fro.  US Pending 16558,937 07732219 Revi Judest, Fro.  US Pending 16558,937 07732219 Revi Judest, Fro.  US Pending 16558,938 07732219 Revi Judest, Fro.  US Pending 16558,133 07732219 Revi Judest, Fro.  US Pending 16558,133 07732219 Revi Judest, Fro.  US Pending 16558,133 07732219 Revi Judest, Fro.	Rovi Guides, Inc.	Pending	06/30/2019	Rovi Guides, Inc.	SYSTEMS AND METHODS FOR PROVIDING CONTENT DURING REDUCED STREAMING QUALITY
US Pending 16557,942 05302019 Revi Guides Inc.  US Pending 16558,333 07372019 Revi Guides Inc.  US Pending 16558,337 07372019 Revi Guides Inc.  US Pending 16558,337 07372019 Revi Guides Inc.  US Pending 16558,338 07372019 Revi Guides Inc.  US Pending 16558,338 07372019 Revi Guides Inc.  US Pending 16558,338 07372019 Revi Guides Inc.  US Pending 16558,337 07372019 Revi Guides Inc.  US Pending 16558,337 07372019 Revi Guides Inc.	Rovi Guides, Inc.	Pending	08/30/2019	Ravi Guides, Inc.	SYSTEMS AND METHODS FOR PROVIDING CONTENT DURING REDUCED STREAMING QUALITY
US Pending 16458.835 07/31/2019 Revi Guess Inc.  US Pending 1658.837 07/31/2019 Revi Guess Inc.  US Pending 1658.837 07/31/2019 Revi Guess Inc.  US Pending 1658.838 07/31/2019 Revi Guess Inc.  US Pending 1658.838 07/31/2019 Revi Guess Inc.  US Pending 1658.837 07/31/2019 Revi Guess Inc.  US Pending 1658.837 07/31/2019 Revi Guess Inc.  US Pending 1658.837 06/31/2019 Revi Guess Inc.  US Pending 1658.145 06/20/2019 Revi Guess Inc.	Rovi Guides, Inc.	Pending	06/3 0/2019	Rovi Guides, Inc.	SYSTEMS AND METHODS FOR PROVIDING CONTENT DURING REDUCED STREAMING QUALITY
US         Pending 16428.537         07/31/2019         Roy diales, Inc.           US         Pending 16428.538         07/31/2019         Roy diales, Inc.           US         Pending 16428.027         07/31/2019         Roy diales, Inc.           US         Pending 16428.027         07/31/2019         Roy diales, Inc.           US         Pending 16428.245         08/20/2019         Roy diales, Inc.           US         Pending 16452.445         08/20/2019         Roy diales, Inc.           US         Pending 16457.415         08/20/2019         Roy diales, Inc.	Rovi Guides, Inc.	Pending	07/31/2019	Rovi Guides, Inc.	SYSTEMS AND METHODS FOR RECOMMENDING COLLABORATIVE CONTENT
US         Pending 16428_038         07/31/2019         Roy divides, Inc.           US         Pending 16428_027         07/31/2019         Roy divides, Inc.           US         Pending 16428_027         07/31/2019         Roy divides, Inc.           US         Pending 16452_445         082/20219         Roy divides, Inc.           US         Pending 16452_415         082/20219         Roy divides, Inc.           US         Pending 16457_415         08/202219         Roy divides, Inc.	Rovi Guides, Inc.	Pending	07/31/2018	Rovi Guides, Inc.	SYSTEMS AND METHODS FOR RECOMMENDING COLLABORATIVE CONTENT
US Pending 16558.027 07/3/2019 Ray distance Inc.  US Pending 16558.027 07/3/2019 Ray distance Inc.  US Pending 16552.445 05/202019 Ray distance Inc.  US Pending 16557.415 05/202019 Ray distance Inc.  US Pending 16557.415 05/202019 Ray distance Inc.	Rovi Guides, Inc.	Pending	07/31/2019	Rovi Guides, Inc.	SYSTEMS AND METHODS FOR RECOMMENDING COLLABORATIVE CONTENT
US Pending 16/52,445 05/2020/19 Ray disclass Inc. US Pending 16/52,45 05/2020/19 Ray disclass Inc. US Pending 16/57,415 05/2020/19 Ray disclass Inc.	Rovi Guides, Inc.	Pending	07/31/2019	Rovi Guides, Inc.	SYSTEMS AND METHODS FOR PROVIDING CONTENT RELEVANT TO A QUOTATION
Co periurity (septiment) and the control of the con	Novi Guides, iric.	0	UNICUCU I B	ROY Guides, Iric.	AUTO-POPULATING IMAGE METADATA
	ROY Guides, Inc.	Burnua	desauxu a	Royl Guides, Inc.	SYSTEMS AND METHODS FOR MONITORING LIGHT EMISSIONS OF ELECTRONIC DEVICES

	SYSTEMS AND METHODS FOR PROVIDING PROGRAM SUGGESTIONS IN AN INTERACTIVE TELEVISION PROGRAM QUIDE	Rovi Guides, Inc.				03/10/2016	1/16/2015 20160073167		US Pending 14/941,981	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING PROGRAM SUGGESTIONS IN AN INTERACTIVE TELEVISION PROGRAM GUIDE	Rovi Guides, Inc.	11/06/2023	11/17/2015	5 9,191,719	03/26/201	1/2014 20150089543	,077 12/0	US Issued 14/557,07	Rovi Guides, Inc.
		Rovi Guides, Inc.	11/06/2023	12/02/2014	8,904,441	02/23/2012	36/21/2011 20120047533		US Issued 13/165,209	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING PROGRAM SUGGESTIONS IN AN INTERACTIVE TELEVISION PROGRAM GUIDE	Rovi Guides, Inc.	04/22/2027	07/19/2011					Issued	Rovi Guides, Inc.
	INTERACTIVE TELEVISION SYSTEMS WITH DIGITAL VIDEO RECORDING AND ADJUSTABLE REMINDERS	Rovi Guides, Inc.	01/30/2023	12/26/2017	9,854,322	08/03/201	/11/2017 20170223421	91	Issued	Rovi Guides, Inc.
	INTERACTIVE TELEVISION SYSTEMS WITH DIGITAL VIDEO RECORDING AND ADJUSTABLE REMINDERS	Rovi Guides, Inc.	01/30/2023	03/07/2017	9,591,373	09/01/2016	35/13/2016 20160255411		US Issued 15/154,109	Rovi Guides, Inc.
	INTERACTIVE TELEVISION SYSTEMS WITH DIGITAL VIDEO RECORDING AND ADJUSTABLE REMINDERS	Rovi Guides, Inc.	01/30/2023	06/14/2016	8,369,741	04/07/2016	16/16/2015 20160100202		US Issued 14/741,034	Rovi Guides, Inc.
	INTERACTIVE TELEVISION SYSTEMS WITH DIGITAL VIDEO RECORDING AND ADJUSTABLE REMINDERS	Rovi Guides, Inc.	01/30/2023	06/30/2015	9,071,872	10/16/2014	36/24/2014 20140310750		US Issued 14/313,348	Rovi Guides, Inc.
	INTERACTIVE TELEVISION SYSTEMS WITH DIGITAL VIDEO RECORDING AND ADJUSTABLE REMINDERS	Rovi Guides, Inc.	01/30/2023	08/12/2014		0	14/19/2013 20130247099		Issued	Rovi Guides, Inc.
	INTERACTIVE TELEVISION SYSTEMS WITH DIGITAL VIDEO RECORDING AND ADJUSTABLE REMINDERS	Rovi Guides, Inc.	01/30/2023	08/05/2014	8,799,971	09/15/201	N.		Issued	Roy Guides, Inc.
	INTERACTIVE TELEVISION SYSTEMS WITH DIGITAL VIDEO RECORDING AND ADJUSTABLE REMINDERS	Royl Guides, Inc.	01/30/2023	D ZI D ZI ZI ZI Z		טוטבעמונגו	20100318039		US ISSUBO 12/827,049	ROW Guides, Inc.
	INTERACTIVE TELEVISION SYSTEMS WITH DIGITAL VIDEO RECORDING AND ADJUSTABLE REMINDERS	Royl Guides, Inc.	01/30/2023	ne/ze/ze/	L				SSUBG	Roy Guides, Inc.
	INTERACTIVE TELEVISION SYSTEMS WITH DIGITAL VIDEO RECORDING AND ADJUSTABLE REMINDERS	Roy Guides, Inc.					+		Burning	Roy Guides, Inc.
	INTERACTIVE TELEVISION SYSTEMS WITH DIGITAL VIDEO RECORDING AND ADJUSTABLE REMINDERS	Royl Guides, Inc.	01/30/2023	UBITSIZITE	10,362,626	01.07/50/70	2/22/2017 2016/182/52		SSUBG	Roy Guides, Inc.
	INTERACTIVE TELEVISION SYSTEMS WITH DIGITAL VIDEO RECORDING AND ADJUSTABLE REMINDERS	Novi Guides, Ilia.	0 00000	000000000000000000000000000000000000000	Ļ	L	٠,		South	Novi Galdes, inc.
	INTERACTIVE TELEVISION SYSTEMS WITH DIGITAL VIDEO RECORDING AND ADJUSTABLE REMINDERS	Royi Guides, irio.	01307020	appzuliza			3 1		8000	Royl Guides, Irlo.
	INTERACTIVE TELEVISION SYSTEMS WITH CONFLICT MANAGEMENT CAPABILITIES	Royl Guides, Inc.	11/20/2022	00123/2010					ISSUBO	Royl Guides, Inc.
	INTERACTIVE TELEVISION SYSTEMS WITH CONFLICT MANAGEMENT CAPABILITIES	Royl Guides, Inc.	11/29/2022	10000000		. 8	2		Issued	Roy Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING FANTASY SPORTS CONTESTS WITH WAGERING OPPORTUNITIES	Royi Guides, Inc.	10/10/20/20 10/10/20/20	000000000000000000000000000000000000000			+		SSUBG	Royi Guides, Inc.
	SYSTEMS AND METHODS FOR USING AN INTERACTIVE TELEVISION PROGRAM QUIDE TO ACCESS FANTASY SPORTS CONTESTS	Royi Guides, irio.				i nzapimi	2010020100		- Paris	Royl Guides, Iric.
	SYSTEMS AND METHODS FOR USING AN INTERACTIVE TELEVISION PROGRAM CUIDE TO ACCESS FANTASY SPORTS CONTESTS	Royl Guides, Inc.	COLOGINA	o di nesse di la	0,200,002				55000	Sovi Galdes, inc.
	SYSTEMS AND METHODS FOR USING AN INTERACTIVE TELEVISION PROGRAM GUIDE TO ACCESS FANTASY SPORTS CONTESTS	Royi Guides, irio.	on moralization	000000000000000000000000000000000000000	a judajuda	02/02/00	2 2		55000	Royi Guides, iric.
	SYSTEMS AND METHODS FOR USING AN INTERACTIVE TELEVISION PROGRAM GUIDE TO ACCESS FANTASY SPORTS CONTESTS		200000000000000000000000000000000000000	O DESCRIPTION OF THE PERSON OF	0,000,000	200000	3		Sold	Royi Guides, Inc.
	SYSTEMS AND METHODS FOR USING AN INTERACTIVE TELEVISION PROGRAM GUIDE TO ACCESS FANTASY SPORTS CONTESTS	To the second se	20 00 00	0 0000000000000000000000000000000000000		0000000	<u> </u>			The state of the s
	INTERACTIVE TELEVISION PROGRAM GUIDE FOR RECORDING EMIANCED VIDEO CONTENT	Royi Guides Inc	05/20/2027	09/27/2011		100/2019	9 :		de lieu	Roy Guides Inc
	SYSTEMS AND METHODS FOR INTERACTIVE PROGRAM GUIDES WITH PERSONAL VIDEO RECORDING FEATURES	Royi Guides, Inc.	02/14/2024	11/06/2007		9 5			Issued	Royi Guides. Inc.
	SYSTEMS AND METHODS FOR INTERACTIVE PROGRAM GUIDES WITH PERSONAL VIDEO RECORDING FEATURES	Royi Guides Inc	ככמכווכוכם	05/09/2017			<del></del>		Ssupe	Roy Guides Inc
	SYSTEMS AND METHODS FOR INTERACTIVE PROGRAM GUIDES WITH PERSONAL VIDEO RECORDING FEATURES	Rovi Guides, Inc.	02/21/2022	03/27/2018	60		N		Issued 1	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR INTERACTIVE PROGRAM GUIDES WITH PERSONAL VIDEO RECORDING FEATURES	Royi Guides Inc	ככמכוולכוכמ	06/09/2015	9 .	07	20140212113		is used	Royi Guides Inc
	SYSTEMS AND METHODS FOR INTERACTIVE PROGRAM GUIDES WITH PERSONAL VIDEO RECORDING FEATURES	Royi Guides, Inc.	02/05/2025	07/01/2014	8 8.768.147	07/31/2008	8/20/2007 20080184297	0 0	US Issued 11/894.797	Royl Guides, Inc.
	SYSTEMS AND METHODS FOR INTERACTIVE PROGRAM GUIDES WITH PERSONAL VIDEO RECORDING FEATURES	Royi Guides, Inc.	220212120	DELIT ZYBDYGU	0,40/,4/0	3 6	3 N		ISSUBO	Royl Guides, Inc.
	PERSONAL VIDEO RECORDER SYSTEMS AND METHODS	Royl Guides, Inc.	03/21/2022	UZULZULZU					Issued	Roy Guides, Inc.
	PERSONAL VIDEO RECORDER SYSTEMS AND METHODS	Royl Guides, Inc.	03/21/2022	and State of the					ISSUBO	Royl Guides, Inc.
	PERSONAL VIDEO RECORDER SYSTEMS AND METHODS	Royl Guides, Inc.	03/21/2022	2102/2010	8,281,345	DLOZJBOZL	Jen 8/2010 20100313238		US Issued 12/818,876	Royl Guides, Inc.
RE	PERSONAL VIDEO RECORDER SYSTEMS AND METHODS	Rovi Guides, Inc.	10/24/2023	11/18/2014		12/09/2010	٠.		Issued	Rovi Guides, Inc.
ΞE	PERSONAL VIDEO RECORDER SYSTEMS AND METHODS	Rovi Guides, Inc.	07/23/2028	04/10/2012	8,156,528	11/21/2002	200201/4433		US Issued 10/105,082	ROW Guides, Inc.
ŧL.	SYSTEMS AND METHODS FOR INSERTING DIALOGUE INTO A QUERY RESPONSE	Rovi Guides, Inc.							Pending	Rovi Guides, Inc.
-	WETHOD AND APPARATUS FOR GENERATING HINT WORDS FOR AUTOMATED SPEECH RECOGNITION	Rovi Guides, Inc.					0/01/2019		Pending 1	Rovi Guides, Inc.
0	METHOD AND APPARATUS FOR GENERATING HINT WORDS FOR AUTOMATED SPEECH RECOGNITION	Rovi Guides, Inc.					0/01/2019		Pending	Rovi Guides, Inc.
ا 53	SYSTEMS AND METHODS FOR PROVIDING CONTENT BASED ON MULTIPLE ANGLES	Rovi Guides, Inc.					19/24/2019		Pending	Rovi Guides, Inc.
P/	SYSTEMS AND METHODS FOR PROVIDING CONTENT BASED ON MULTIPLE ANGLES	Rovi Guides, Inc.					19/24/2019		Pending	Rovi Guides, Inc.
FOF THE CONTENT	SYSTEMS AND METHODS FOR DISPLAYING SUBJECTS OF A PORTION OF CONTENT AND DISPLAYING AUTOCOMPLETE SUGGESTIONS FOR A SEARCH RELATED TO A SUBJECT	Rovi Guides, Inc.					24/2018	09.	US Pending 16/580,922	Rovi Guides, Inc.
SUBJECT OF THE AUDIO PORTION	SYSTEMS AND METHODS FOR DISPLAYING SUBJECTS OF AN AUDIO PORTION OF CONTENT AND DISPLAYING AUTOCOMPLETE SUGGESTIONS FOR A SEARCH RELATED TO A	Rovi Guides, Inc.					19/24/2019		Pending 1	Rovi Guides, Inc.
SUBJECT OF THE AUDIC PCR ION	SYSTEMS AND METHODS FOR DISPLAYING SUBJECTS OF AN AUDIO PORTION OF CONTENT AND DISPLAYING AUTOCOMPLETE SUGGESTIONS FOR A SEARCH RELATED TO A	Rovi Guides, Inc.					19/24/2019		Pending	Rovi Guides, Inc.
IT R/	COLLABORATIVE COMMENT ANALYSIS AND MODIFICATION TO CONTENT	Rovi Guides, Inc.					0/17/2019		Pending	Rovi Guides, Inc.
<b>A</b> [	SYSTEMS AND METHODS FOR GENERATING PERSONALIZED CONTENT	Rovi Guides, Inc.					9/2019		Pending 1	Rovi Guides, Inc.
VΙΙ	SYSTEMS AND METHODS FOR PROVIDING UNINTERRUPTED MEDIA CONTENT DURING VEHICLE NAVIGATION	Rovi Guides, Inc.					18/3 0/2019		US Pending 16/557,925	Rovi Guides, Inc.
E:	SYSTEMS AND METHODS FOR PROVIDING UNINTERRUPTED MEDIA CONTENT DURING VEHICLE NAVIGATION	Rovi Guides, Inc.					8/30/2019		Pending	Rovi Guides, Inc.
C	SYSTEMS AND METHODS FOR PROVIDING UNINTERRUPTED MEDIA CONTENT DURING VEHICLE NAVIGATION	Rovi Guides, Inc.					8/30/2019		Pending	Rovi Guides, Inc.
8	SYSTEMS AND METHODS FOR DISPLAYING SUBJECTS OF A VIDEO PORTION OF CONTENT AND SEARCHING FOR CONTENT RELATED TO A SUBJECT OF THE VIDEO PORTION	Rovi Guides, Inc.					8/2018	9 9	Pending	Royl Guides, Inc.
49	SYSTEMS AND METHODS FOR DISPLAYING SUBJECTS OF AN AUDIO PORTION OF CONTENT AND SEARCHING FOR CONTENT RELATED TO A SUBJECT OF THE AUDIO PORTION	Rovi Guides, Inc.					18/28/2019		US Pending 16/553,410	Rovi Guides, Inc.
•	ADAPTING RUNTIME AND PROVIDING CONTENT DURING AN ACTIVITY	Rovi Guides, Inc.					08/28/2019		US Pending 16/554,093	Rovi Guides, Inc.

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	SYSTEMS AND METHODS FOR ACQUIRING, CATEGORIZING AND DELIVERING MEDIA IN INTERACTIVE MEDIA GUIDANCE APPLICATIONS	Rovi Guides, Inc.	12/18/2026	07/05/2016	9,386,350	05/19/2016	20160142778	11/12/2018	lued 14/939,711	Us	Royl Guides, Inc.
	SYSTEMS AND METHODS FOR ACQUIRING, CATEGORIZING AND DELIVERING MEDIA IN INTERACTIVE MEDIA GUIDANCE APPLICATIONS	Rovi Guides, Inc.	12/18/2026	12/15/2015	9,215,504	01/01/2015	20150007234	08/01/2014	ssued 14/449,523	US	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR ACQUIRING, CATEGORIZING AND DELIVERING MEDIA IN INTERACTIVE MEDIA GUIDANCE APPLICATIONS	Royi Guides, Inc.	01/12/2028	UB/UB/ZU14	8,832,742	04/10/2008	Η.	12/18/2006	ISSUED 11/641,887	┖	ROY Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING REMOTE ACCESS TO INTERACTIVE MEDIA GUIDANCE APPLICATIONS	Royl Guides, Inc.	12/20/2026	11/24/2015	9,197,936	06/25/2016	l N	10/08/2014	ISSUED 14/509,996	_	Roy Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING REMOTE ACCESS TO INTERACTIVE MEDIA GUIDANCE APPLICATIONS	Roy Guides, Inc.	200000000000000000000000000000000000000	10102011	0,007,107	000000000000000000000000000000000000000	٠.	0.000		$\perp$	Dox Outlies Inc.
	SYSTEMS AND METHODS FOR PROVIDING REMOTE ACCESS TO INTERACTIVE MEDIA GUIDANCE APPLICATIONS	Royl Guides Inc.	9000000	11/1/20/20/2	0 0,500,454	000202000	201100000000000000000000000000000000000	- FOCIO CIVO	12/000 756	In 6	Roy Guides Inc
	PRESENTING MEDIA GUIDANCE SEARCH RESULTS BASED ON RELEVANCY		00/40/00	0.675675045	900 404	9000/30030		13303000	14822507	┺	D C C C C C C C C C C C C C C C C C C C
	PRESENTING MEDIA GUIDANCE SEARCH RESULTS BASED ON RELEVANCY		11/01/2020	08/00/2014	7 006 300	05/04/2008	2 2	AUUC/LU/LU/LU			Roy Guides, Inc.
	SYSTEMS AND METHODS FOR MODIFYING AN INTERACTIVE MEDIA GUIDANGE APPLICATION INTERFACE BASED ON TIME OF DAY	Rovi Guides, Inc.	08/28/2020	08/30/2014	8,890,481	04/1 // 2008		Annzi Rzien	_	_	Roy Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING ADVANCED INFORMATION SEARCHING IN AN INTERACTIVE MEDIA GUIDANCE APPLICATION	Rovi Guides, Inc.	06/30/2026	10/30/2012	8,301,632	05/13/2010	20100121714	09/28/2009	ued 12/568,403	US	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING ADVANCED INFORMATION SEARCHING IN AN INTERACTIVE MEDIA GUIDANCE APPLICATION	ROVI Guides, Inc.	12/00/2020	0.000	7,080,480			desadizione	ISSUBQ   17478,745	ᆫ	Roy Guides, Inc.
	SYSTEMS AND METHODS FOR COMMERCE IN MEDIA PROGRAM RELATED MERCHANDISE		12/31/2025	01020010	9,135,645	03/2//2014	20140089094	11/26/2013			Roy Guides, Inc
	METHODS AND SYSTEMS FOR CHECKING THAT PURCHASABLE ITEMS ARE COMPATIBLE WITH USER EQUIPMENT	Royi Guides, Inc.	12/28/2020	2012010	0,020,708	07/2//2011	-	nara and	UBG   50074,707	5 6	Roy Guides, Fro
	SYSTEMS AND METHODS FOR COMMERCE IN MEDIA PROGRAM RELATED MERCHANDISE	Royl Guides, Inc.	120200000	1211/2013	0,012,310	0704/2010	3 6	03/10/10/10	12/71/707	5 6	Roy Guides, Fro.
	INTERACTIVE MEDIA GUIDANCE APPLICATION WITH INTELLIGENT NAVIGATION AND DISPLAY FEATURES	Royi Guides, Inc.	03/24/2020	08/28/2017	9,748,083	UB/14/2014		02041000	14/181,102	5 6	Roy Guides, Inc.
	INTERACTIVE MEDIA GUIDANCE APPLICATION WITH INTELLIGENT NAVIGATION AND DISPLAY FEATURES	Roy Guides, inc.	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 0 0	000000000000000000000000000000000000000	-	100 100 100 100 100 100 100 100 100 100	44444444	$\perp$	Desired Colores, inc.
	INTERACTIVE MEDIA GUIDANCE APPLICATION WITH INTELLIGENT NAVIGATION AND DISPLAY FEATURES	Royi Guides Inc	03/24/20	04/15/2014	8 701 141	02/14/2013	9	10/15/2012			Roy Guides Inc
	SYSTEMS AND METHODS FOR CREATING AGGREGATIONS OF EPISODES OF SERIES PROGRAMMING IN ORDER	Rovi Guides, Inc.	03/24/2026	11/20/2012	8.316.394	06/17/2010	20	12/10/2009	ued 12/634.869	US Iss	Royl Guides, Inc.
	SYSTEMS AND METHODS FOR CREATING AGGREGATIONS OF EPISODES OF SERIES PROGRAMMING IN ORDER	Rovi Guides, Inc.	12/29/2025	01/20/2015	8,938,764	03/27/2014		11/27/2013	_	ㅗ	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR EPISODE TRACKING IN AN INTERACTIVE MEDIA ENVIRONMENT	Rovi Guides, Inc.	06/19/2026	01/07/2014	8,627,378	02/09/2012		03/16/2011	_	<u></u>	Rovi Guides, Inc.
	STS LEWS AND METHOUS HOKEMISODE I KACKING IN AN INTEXACTIVE MEDIA ENVIRONMENT	Rovi Guides, Inc.				05/23/2019	20190158914	11/20/2018	ending 16/196,647	7	Rovi Guides, Inc.
	OCOTERS AND METALODO EDDOODE TO ACCIONO MAN INTER ACTIVE METALODOMICA	Rovi Guides, Inc.	12/29/2025	12/25/2018	10,165,324	04/19/2018	20180109842	12/19/2017	ued 15/847,215	US Iss	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR FERISODE TRADKING IN AN INTERACTIVE MEDIA ENVIRONMENT	Rovi Guides, Inc.	12/29/2025	04/24/2018	9,955,216	10/06/2016	20160295278	03/02/2016	ued 15/058,894	US Iss	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR EPISODE TRACKING IN AN INTERACTIVE MEDIA ENVIRONMENT	Rovi Guides, Inc.	12/29/2025	01/02/2018	9,860,595	08/13/2015	20150229991	03/17/2015	rued 14/660,596	US Iss	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR EPISODE TRACKING IN AN INTERACTIVE MEDIA ENVIRONMENT	Rovi Guides, Inc.	02/18/2027	04/21/2015	9,015,736	07/05/2007	20070157248	12/28/2005	Issued 11/323,464	US ISS	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR USING AN INTERACTIVE MEDIA GUIDANCE APPLICATION ON MOBILE USER EQUIPMENT	Rovi Guides, Inc.	03/28/2026	05/23/2017	9,661,392	07/16/2015	20150201245	03/02/2015	ued 14/635,791	US	Rovi Guides, Inc.
	INTERACTIVE ADVERTISING AND PROGRAM PROMOTION IN AN INTERACTIVE TELEVISION SYSTEM	Rovi Guides, Inc.	06/30/2027	08/18/2015	9,113,107	05/10/2007	20070107010	11/08/2001	rued 11/270,250	US	Rovi Guides, Inc.
	INTERACTIVE MEDIA GUIDANCE SYSTEM HAVING MULTIPLE DEVICES		03/12/2028	12/10/2013	8,607,287	07/05/2007	N	12/29/2005	Issued 11/323,485	Ь.	Roy Guides, Inc.
	INTERACTIVE MEDIA GUIDANCE SYSTEM HAVING MULTIPLE DEVICES	Royi Guides, Inc.	7202/01/00	UNITALE	9,001,100	07/05/2007	-	12/28/2000	JUBO 11/324,100	8	Roy Guides, Inc.
	INTERACTIVE MEDIA GUIDANCE SYSTEM HAVING MULTIPLE DEVICES	Royi Guides, Inc.	01/23/2028	טרטאנארר	7,840,877	800272100		U SU SUSTI	UBG 11/324,187	88	Roy Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING AN OX-DEMAND MEDIA PORTAL AND GRID GUIDE	ROYI Guides, Inc.	/Z0Z/81/00	7102/12/00	0,200,014			DODECT BURD	117384,034		Royi Guides, Inc.
	CROSS-PLATFORM PREDICTIVE POPULARITY RATINGS FOR USE IN INTERACTIVE TELEVISION APPLICATIONS	Rovi Guides, Inc.	11/15/2027	12/17/2013	8,613,024	06/14/2007	20070136753	12/13/2005	ued 11/300,146	US Iss	Rovi Guides, Inc.
	SELF-ADVANCING LITERATURE DISPLAY RACK	Royi Guides, Inc.	0702001110	THAISIE	1,293,003	0007/01/00	٠.	12/29/2003	ued 10/40,023	8	Roy Guides, Inc.
	SYSTEMS AND METHODS FOR EXPORTING DIGITAL CONTENT USING AN INTERACTIVE TELEVISION APPLICATION	Royi Guides, Inc.	03/40/2024	TANAGE TO THE	8,027,448	0014/2010		וועצווצוווע	14,512,146	5 6	Roy Guides, Inc.
	SYSTEMS AND METHODS FOR EXPORTING DIGITAL CONTENT USING AN INTERACTIVE TELEVISION APPLICATION	9	000000000000000000000000000000000000000	00000000	0,000,00	070000000000000000000000000000000000000	200000000000000000000000000000000000000	04-7-0-200	12/2/2/2/00		Desired Colores, inc.
RI	SYSTEMS AND METHODS FOR PROVIDING CHANNEL GROUPS IN AN INTERACTIVE MEDIA GUIDANGE APPLICATION	Povi Guides, inc.	00445000	02/2/2014	9 066 567	01/08/2007	200000122240	2005/8 1/20	1000 11/024,182	io 6	Dox Guides Inc
= [	ELECTRONIC PROGRAM GUIDE FOR INDICATING AVAILABILITY OF PAST PROGRAMS	Royi Guides, Inc.				12/13/2016	1 2	0107/11/2010	Bell'connol Buildia		Roy Guides, Inc.
	ELECTRONIC PROGRAM GUIDE FOR INDICATING AVAILABILITY OF PAST PROGRAMS	Royl Guides, Inc.	O#/UG/ZUZZ	0102/2/100	8,880,782	DI DZ/SZ(ZI)	٠.	1102/2011	-	1 2	Roy Guides, Inc.
-	ELECTRONIC PROGRAM GUIDE FOR INDICATING AVAILABILITY OF PAST PROGRAMS		04/03/2022	1202/2014	8,904,435	12/05/2013	20130326558	102/22/60	13/200328	8	Roy Guides, Inc.
0	ELECTRONIC PROGRAM GUIDE FOR INDICATING AVAILABILITY OF PAST PROGRAMS IN THE FUTURE	Rovi Guides, Inc.	04/03/2022	08/06/2013	8,505,050	11/29/2012	20120304228	08/08/2012	rued 13/570,019	US	Rovi Guides, Inc.
J 53	ELECTRONIC PROGRAM GUIDE FOR INDICATING AVAILABILITY OF PAST PROGRAMS IN THE FUTURE	Rovi Guides, Inc.	03/13/2026	09/11/2012	8,266,649	11/25/2004	20040237108	05/14/2004	ued 10/474,089	US Iss	Rovi Guides, Inc.
P/ 34	SYSTEMS AND METHODS FOR PROVIDING A TRANSPORT CONTROL INTERFACE	Rovi Guides, Inc.	03/18/2024	12/12/2017	9,843,839	08/24/2017		03/08/2017	ued 15/453,461	US Iss	Rovi Guides, Inc.
۲ 58	SYSTEMS AND METHODS FOR PROVIDING A TRANSPORT CONTROL INTERFACE	Rovi Guides, Inc.	03/18/2024	04/11/2017	9,621,956	10/01/2015	20150281792	05/29/2015	ued 14/725,875	US	Rovi Guides, Inc.
ΓE 3	SYSTEMS AND METHODS FOR PROVIDING TRANSPORT CONTROL	Rovi Guides, Inc.	03/18/2024	06/09/2015	9,055,325	07/08/2010	20100175086	11/11/2009	Issued 12/616,309	US ISS	Rovi Guides, Inc.
EN F#	DIFFERENT OVERLAYS IN AN INTERACTIVE TELEVISION SYSTEM FOR DIFFERENT TELEVISION CHANNELS	Rovi Guides, Inc.				10/18/2018	20180302685	04/10/2018	nding 15/849,547	US Pe	Rovi Guides, Inc.
IT R#	DIFFERENT OVERLAYS IN AN INTERACTIVE TELEVISION SYSTEM FOR DIFFERENT TELEVISION CHANNELS	Rovi Guides, Inc.	01/12/2024	05/15/2018	9,973,827	07/13/2017	_	01/24/2017	ued 15/413,858	US Iss	Rovi Guides, Inc.
•	CUSTOMIZABLE OVERLAYS BASED ON INFORMATION TYPES IDENTIFIED BY A USER	Rovi Guides, Inc.	01/12/2024	03/07/2017	9,591,372	01/21/2016	20160021428	07/17/2016	rued 14/802,513	US ISS	Rovi Guides, Inc.
/	CUSTOMIZABLE OVERLAYS BASED ON SUBJECT MATTER	Rovi Guides, Inc.	01/12/2024	08/04/2015	9,100,713	07/17/2014	20140201793	03/14/2014	ued 14/213,706	SSI SO	Rovi Guides, Inc.
Ξ:	CUSTONIZABLE FLIP AND BROWSE OVERLAYS WITH CONTENT-BASED INFORNATION TYPES IN AN INTERACTIVE TELEVISION SYSTEM	Rovi Guides, Inc.	01/12/2024	04/08/2014	8,695,038	01/03/2013	20130002716	09/1 0/2012	ssued 13/608,528	US ISS	Rovi Guides, Inc.
0		Rovi Guides, Inc.	01/12/2024	10/02/2012	8,281,339			08/31/2009	ued 12/551,399	US Iss	Rovi Guides, Inc.
8	SYSTEMS AND METHODS FOR PROVIDING PROGRAM SUGGESTIONS IN AN INTERACTIVE TELEVISION PROGRAM GUIDE	Rovi Guides, Inc.						10/10/2019	nding 16/598,333	US Pe	Rovi Guides, Inc.
<b>5</b> 0	SYSTEMS AND METHODS FOR PROVIDING PROGRAM SUGGESTIONS IN AN INTERACTIVE TELEVISION PROGRAM GUIDE	Rovi Guides, Inc.	07/11/2039					10/04/2019	nding 16/593,613	US Pe	Rovi Guides, Inc.
)	SYSTEMS AND METHODS FOR PROVIDING PROGRAM SUGGESTIONS IN AN INTERACTIVE TELEVISION PROGRAM GUIDE	Ravi Guides, Inc.	-	_				07/11/2019	nding 16/509,312	US Pe	Rovi Guides, Inc.

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		Rovi Guides, Inc.	12/31/2027	11/08/2016	9,491,519	10/08/2015	5 20150289027	06/17/201	ued 14/742,117	US ISS	Rovi Guides, Inc.
	METHODS AND DEVICES FOR PRESENTING AN INTERACTIVE MEDIA GUIDANCE APPLICATION	Rovi Guides, Inc.	12/31/2027	06/30/2015	9,071,372	08/11/2011	0 20110197232	11/10/2010	ssued 12/943,103	US Issu	Rovi Guides, Inc.
SE APPLICATION	METHODS AND DEVICES FOR PRESENTING GUIDE LISTINGS AND GUIDANCE DATA IN THREE DIMENSIONS IN AN INTERACTIVE MEDIA GUIDANCE APPLICATION	Ravi Guides, Inc.	11/19/2029	10/08/2013	8,555,311	06/25/2009	~	12/20/200	Ь.	US Issued	Rovi Guides, Inc.
	METHODS AND SYSTEMS THAT MOTIVATE TUNING TO A TRANSMISSION CHANNEL FOR A TIME PERIOD	Rovi Guides, Inc.	1202/8/1/2/	10/15/2013	8,561,098	2102/40//0	N	12/06/201	١.	US	Royl Guides, Inc.
	METHODS AND SYSTEMS THAT MOTIVATE TUNING TO A TRANSMISSION CHANNEL FOR A TIME PERIOD	ROY Guides, Inc.	OF EXECUTE	0 00000	0,00	00 1012000		120 100 100	+	$\perp$	ROW Guides, Inc.
RYSYSTEM	SYSTEMS AND METHODS FOR AUTOMATICALLY PURCHASING AND RECORDING POPULAR PAY PROGRAMS IN AN INTERACTIVE MEDIA DELIVERY SYSTEM	Revi Guides, inc.	17/15/2027	04102/2014	0,000,044	UNIZADE/GIO	2 00000120211	10242480	12/009,092	le US	Roy Guides, Inc.
	MANTANING A USER PROFILE BASED ON DYNAMIC DATA	Royl Guides, Inc.		200	0000	000000000000000000000000000000000000000	1 .	102/8 100	Panding Ignibria	١.,	Roy Guides, Inc.
	MAINTAINING A USER PROFILE BASED ON DYNAMIC DATA		11/21/2027	81027/0/40	10,284,914	0//16/2015	2 2	03/24/2015	Ш.		Roy Guides, Inc.
	ENABLING A FRIEND TO REMOTELY MODIFY USER DATA	Rovi Guides, Inc.	05/08/2029	01/27/2015	8,943,539	05/21/2009		11/21/200	ued 11/986,463	US Iss	Rovi Guides, Inc.
	MAINTAINING A USER PROFILE BASED ON DYNAMIC DATA	Ravi Guides, Inc.	06/27/2028	10/07/2014	8,856,833	05/21/2009	20	11/21/2001	ued 11/986,461	US Issu	Rovi Guides, Inc.
	CROSS-PLATFORM MESSAGING	NOVI GOIGOS, IIIV.	001011111111111111111111111111111111111	1000000	0,000,747	15000000		G G N	-	0000000	Sovi Galdas, IIIc.
	CROSS-PLATFORM MESSAGING		00/07/2020	12/05/2010	9,400,202	10/02/12/14		910076090			Roy Guides Inc
	CROSS-PLATFORM MESSAGING	Royl Guides, Inc.	AL MEDODO	000000000000000000000000000000000000000	0,000,707	210211200	+	000000000000000000000000000000000000000	110000,004	6 6	Royl Guides, Inc.
	CROSS-PLATFORM MESSAGING	Royl Guides, Inc.	00/07/2029	10/22/2012	0,101,8// 8 AAA 707	06/21/2013	3 N	1002/10180	100 95/250	le le	Roy Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING REMOTE PROGRAM ORDERING ON A USER DEVICE VIA A WEB SERVER	Royi Guides, Inc.	44.07/2020	0412412012	0 107 077	02/13/3000	+	00077500	14/900 762	10 G	Roy Guides Inc.
	SYSTEMS AND METHODS FOR RECORDING OVERLAPPING MEDIA CONTENT DURING SCHEDULING CONFLICTS	Povi Guides Inc	06/07/2020	10/04/0010	8 337 403	1000	-	00/07/2000			Pow Guides Inc
	SYSTEMS AND METHODS FOR RECORDING OVERLAPPING MEDIA CONTENT DURING SCHEDULING CONFLICTS		07/03/2007	02/07/2017	9 565 389	10/02/2014	Q	710C/E 1/90	+	No. 1991	Roy Guides Inc
	SEARCH ENGINE FOR A VIDEO RECORDER	Royl Guides, Inc.	06/01/2032	08/05/2014	8 798 433	11/06/2008	7	07/03/200	ued 11/825.311	Us Issi	Royl Guides, Inc.
	SEARCH ENGINE FOR A VIDEO RECORDER	Royi Guides, Inc.	01/06/2025	12/25/2018	10.162.890	05/10/2018	1	11/13/201	_	_	Royi Guides, Inc.
	SEARCH ENGINE FOR A VIDEO RECORDER	Rovi Guides, Inc.	01/06/2025	10/29/2019	10,459,974	05/10/2018		11/13/2017	_	$\perp$	Rovi Guides, Inc.
	SEARCH ENGINE FOR A VIDEO RECORDER	Rovi Guides, Inc.	01/06/2025	02/05/2019	10,198,510	05/10/2018	2	11/13/2017	_	US Issued	Rovi Guides, Inc.
	SEASOH ENGINE FOR A VIDEO RECORDER	Rovi Guides, Inc.	01/06/2025	12/05/2017	9,836,537	01/12/2017	6 20170011052	09/23/2014	ued 15/274,390	US Isst	Rovi Guides, Inc.
	OLIVIANI LIVORII TANA VILLIA DESCANDEN	Rovi Guides, Inc.	01/06/2025	10/18/2016	9,471,678	02/18/2016	5 20160048524	10/28/2015	ued 14/925,513	US ISS	Rovi Guides, Inc.
	GET BOUND ECOR BOOKER OF BETT	Rovi Guides, Inc.	01/06/2025	10/06/2015	9,152,720	10/09/2014	4 20140304248	04/03/2014	ued 14/244,268	US Issu	Rovi Guides, Inc.
	SEARCH ENGINE FOR A VIDEO RECORDER	Rovi Guides, Inc.	01/06/2025	05/20/2014	8,732,152	09/29/2011	1 20110239250	06/13/2011	ssued 13/159,089	US Issu	Rovi Guides, Inc.
	SEARCH ENGINE FOR A VIDEO RECORDER	Rovi Guides, Inc.					8	09/20/201	nding 16/577,041	US Per	Rovi Guides, Inc.
		Rovi Guides, Inc.	04/18/2027	09/03/2013	8,528,015	05/12/2005	4 20050102698	03/1 0/200	ued 10/708,529	US ISS	Rovi Guides, Inc.
		Rovi Guides, Inc.	03/06/2024	12/18/2017	9,848,161	07/26/2012	2 20120189269	04/03/2012	ued 13/438,237	US (Issued	Rovi Guides, Inc.
		Rovi Guides, Inc.	04/21/2023	05/08/2012	8,176,516	07/01/2010	9 20100166386	11/25/2009	ued 12/626,267	US Issu	Rovi Guides, Inc.
	VIDEO RECORDER HAVING USER EXTENDED AND AUTOMATICALLY EXTENDED TIME SLOTS	Rovi Guides, Inc.	04/12/2024	09/10/2013	8,532,466	08/11/2011		11/05/2010	ued 12/940,628	US Issu	Rovi Guides, Inc.
	VIDEO RECORDER HAVING USER EXTENDED AND AUTOMATICALLY EXTENDED TIME SLOTS	Royi Guides, Inc.	04/21/2023	12/14/2010	7,853,120	10/21/2004	4 20040208477	01/15/200-	ued 10/707,834	US ISS	Royl Guides, Inc.
	VIDEO RECORDER HAVING USER EXTENDED AND AUTOMATICALLY EXTENDED TIME SLOTS	Ravi Guides, Inc.	04/21/2023	07/06/2004	6,760,538		ω	04/21/2003	ued 10/249,575	US Isst	Rovi Guides, Inc.
	TUNER SHARING VIDEO RECORDER SYSTEM ARCHITECTURE	Rovi Guides, Inc.	08/02/2025	02/14/2012	8,116,611	08/12/2004	3 20040156614	09/17/2003	ued 10/605,246	US Issued	Rovi Guides, Inc.
	CONFLICT MANAGER FOR A VIDEO RECORDER	Ravi Guides, Inc.	03/25/2026	01/10/2010	7,774,816	10/23/2003	3 20030198462	02/1 0/200	ued 10/248,699	US ISSI	Rovi Guides, Inc.
land the second	SYSTEMS AND METHODS FOR MIRRORING AND TRANSCODING MEDIA CONTENT	Ravi Guides, Inc.				11/15/2018	8 20180332330	07/25/2018	nding 16/045,274	US Per	Rovi Guides, Inc.
RE	SYSTEMS AND METHODS FOR MIRRORING AND TRANSCODING MEDIA CONTENT	Rovi Guides, Inc.	07/11/2027	08/28/2018	10,063,903	10/20/2016	6 20160309211	03/21/201	ued 15/075,918	US Issu	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR MIRRORING AND TRANSCODING MEDIA CONTENT	Rovi Guides, Inc.	07/11/2027	04/26/2016	9,326,016	05/05/2011	0 20110106910	09/24/2010	ued 12/889,986	US ISS	Rovi Guides, Inc.
	USER DEFINED RULES FOR ASSIGNING DESTINATIONS OF CONTENT	Rovi Guides, Inc.				05/09/2019	8 20190141389	11/06/201	nding 16/182,200	US Per	Rovi Guides, Inc.
-	USER DEFINED RULES FOR ASSIGNING DESTINATIONS OF CONTENT	Rovi Guides, Inc.	03/22/2027	12/18/2018	10,158,910	11/02/2017	7 20170318330	07/11/201	ued 15/646,667	US Issu	Rovi Guides, Inc.
04	USER DEFINED RULES FOR ASSIGNING DESTINATIONS OF CONTENT	Rovi Guides, Inc.	03/22/2027	08/15/2017	9,736,527	06/16/2016	6 20160173934	02/25/201	ued 15/053,450	US Issu	Rovi Guides, Inc.
F 53	USER DEFINED RULES FOR ASSIGNING DESTINATIONS OF CONTENT	Rovi Guides, Inc.	03/22/2027	04/05/2016	9,307,281	08/29/2013	3 20130227615	03/11/2013	ued 13/793,326	US Issued	Rovi Guides, Inc.
۰ <i>ړ</i> 4	USER DEFINED RULES FOR ASSIGNING DESTINATIONS OF CONTENT	Rovi Guides, Inc.	11/01/2028	04/09/2013	8,418,206	09/25/2008	7 20080235731	03/22/200	ued 11/726,774	US lissu	Rovi Guides, Inc.
<b>↓</b> ↑	SYSTEMS AND METHODS FOR PROVIDING REMOTE ACCESS TO INTERACTIVE MEDIA GUIDANCE APPLICATIONS	Rovi Guides, Inc.	04/20/2027	07/24/2018	10,034,054	05/14/2015	5 20150131975	01/21/2015	ued 14/602,134	US ISS	Rovi Guides, Inc.
Γ <b>Ε</b>	SYSTEMS AND METHODS FOR PROVIDING REMOTE ACCESS TO INTERACTIVE MEDIA GUIDANCE APPLICATIONS	Rovi Guides, Inc.	04/20/2027	02/17/2015	8,959,547	04/05/2012	1 20120084814	12/09/201	ued 13/316,096	US Issued	Rovi Guides, Inc.
EN F	SYSTEMS AND METHODS FOR PROVIDING REMOTE ACCESS TO INTERACTIVE MEDIA GUIDANCE APPLICATIONS	Ravi Guides, Inc.	12/12/2028	12/27/2011	8,087,047	10/23/2008	7 20080263600	04/20/2007	ued 11/788,669	US Issu	Rovi Guides, Inc.
IT R#	SYSTEMS AND METHODS FOR DETERMINING SUBSCRIPTION DATA	Ravi Guides, Inc.				05/02/2019	8 20190132638	10/30/2018	nding 16/175,678	US Per	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR DETERMINING SUBSCRIPTION DATA	Rovi Guides, Inc.	04/20/2027	12/18/2018	10,158,909	03/08/2018	7 20180070130	09/14/201	ued 15/704,556	US Issu	Rovi Guides, Inc.
/1 E		Rovi Guides, Inc.	04/20/2027	09/26/2017	9,774,902	11/05/2015	5 20150319499	07/15/2015	ued 14/800,313	US Issu	Rovi Guides, Inc.
<b>=</b> :	SYSTEMS AND METHODS FOR DETERMINING SUBSCRIPTION DATA	Ravi Guides, Inc.	04/20/2027	05/24/2016	9,351,033	08/28/2014	20140245343	05/02/2014	ued 14/268,461	US Issued	Rovi Guides, Inc.
0	SYSTEMS AND METHODS FOR DETERMINING SUBSCRIPTION DATA	Rovi Guides, Inc.	04/20/2027	06/17/2014	8,756,625	11/29/2012	2 20120304219	08/07/2013	ued 13/568,744	US Issu	Rovi Guides, Inc.
8	SYSTEMS AND METHODS FOR DETERMINING SUBSCRIPTION DATA	Rovi Guides, Inc.	04/20/2027	2102/11/80	8,266,648	07/29/2010	9 20100192180	12/18/200	ued 12/641,765	US Iss	Royl Guides, Inc.
51	SYSTEMS AND METHODS FOR ACQUIRING, CATEGORIZING AND DELIVERING MEDIA IN INTERACTIVE MEDIA GUIDANCE APPLICATIONS	Rovi Guides, Inc.	06/09/2028	02/19/2013	8,381,249	04/10/2008	6 20080086747	12/18/2006	ued 11/841,976	US Issued	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR ACQUIRING, CATEGORIZING AND DELIVERING MEDIA IN INTERACTIVE MEDIA GUIDANCE APPLICATIONS	Ravi Guides, Inc.	12/18/2026	04/04/2017	9,615,138	12/29/2016	20160381428	09/09/2016	ued 15/260,494	US Issued	Rovi Guides, Inc.

WIRONMENT	SYSTEMS AND METHODS FOR TRANSMITTING MEDIA ASSOCIATED WITH A MEASURE OF QUALITY BASED ON LEVEL OF GAME PLAY IN AN INTERACTIVE VIDEO GAMING ENVIRONMENT	Rovi Guides, Inc.	10/16/2031	02/25/2014	8,657,680	12/06/2012	2011 20120308515	05/31/2011	US Issued 13/118,712	Royl Guides, Inc.
	SYSTEMS AND METHODS FOR GENERATING MEDIA BASED ON PLAYER ACTION IN AN INTERACTIVE VIDEO GAMING ENVIRONMENT	Rovi Guides, Inc.	01/19/2032	07/30/2013	8,498,722	12/06/2012	2011 20120309511	05/31/201	US Issued 13/118,703	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR INITIALIZING ALLOCATIONS OF TRANSPORT STREAMS BASED ON HISTORICAL DATA	Ravi Guides, Inc.	08/18/2031	08/14/2018	10,051,297	12/31/2015	7/2015 20150382029	05/27/	US Issued 14/722,567	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR INITIALIZING ALLOCATIONS OF TRANSPORT STREAMS BASED ON HISTORICAL DATA	Rovi Guides, Inc.	03/12/2032	06/02/2015	9,049,073	01/03/2013	2011 20130007191	06/28/2011	US Issued 13/171,019	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR DEDUCING USER INFORMATION FROM INPUT DEVICE BEHAVIOR	Ravi Guides, Inc.				01/24/2019	2018 20190023776	06/25/2	Pending	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR DISPLAYING PERSONALIZED MEDIA CONTENT	Rovi Guides, Inc.	01/19/2031	10/23/2012	8,296,456	03/08/2012	2010 20120059953	09/03/2010	US Issued 12/875,401	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR PROVIDING MEDIA CONTENT LISTINGS BY CONTENT PROVIDER	Rovi Guides, Inc.	06/14/2031	11/04/2014	8,881,201	11/17/2011		05/13/2010	Issued	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING MEDIA CONTENT LISTINGS ACCORDING TO POINTS OF INTEREST	Rovi Guides, Inc.					_	10/08/2019	US Pending 16/596,594	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING MEDIA CONTENT LISTINGS ACCORDING TO POINTS OF INTEREST	ROVI Guides, Inc.				11/20/2010	201503#1688	0.02/22/10	Bulling	Roy Guides, Iric.
	SYSTEMS AND METHODS FOR PROVIDING MEDIA CONTEXT LISTINGS ACCORDING TO POINTS OF INTEREST	Roy Guides, Inc.	02/20/2031	GLDZVLDVBD	8,122,7U1	1102/1/1011		US/1 St	Subd	Revi Guides, Inc.
	SYSTEMS AND METHODS FOR SHARING INTERACTIVE MEDIA GUIDANCE INFORMATION	Roy Guides, Inc.	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0,000	A SOCIAL N		02100100	5000	Post Guides, Inc.
	SYSTEMS AND METHODS FOR PERFORMING A SEARCH BASED ON A MEDIA CONTENT SNAPSHOT IMAGE	Royi Guides Inc	07/04/2000	10/08/0017	0.854.348	10/06/2010	_	Op.man	Ec Sucou	Royd Guides Inc.
	SYSTEMS AND METHODS FOR CONTROLLING AN ELECTRONIC DEVICE	Royi Guides Inc	05/14/2030	04/21/2015	9 015 139	11/17/2011	٠	08/14/2010	Name of the last	Box Guides Inc
	SYSTEMS AND METHODS FOR MEDIA DETECTION AND FILTERING USING A PARENTAL CONTROL LOGGING APPLICATION	Rovi Guides, Inc.	06/28/2031	12/25/2012	8,341,669	12/01/2011	2.1	05/26/	Issued	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR TRIMMING RECORDED CONTENT USING A MEDIA GUIDANCE APPLICATION	Rovi Guides, Inc.	04/20/2031	12/01/2015	9,204,193	11/17/2011		05/14/2010	Issued	Rovi Guides, Inc.
	STS LEWS AND METHOUS FOR NAVIGATING PROGRAM LISTINGS SIMULTANEOUSLY JISPLAYED WITH A PROGRAM IN A MEDIA GUIDANGE APPLICATION	Rovi Guides, Inc.	11/21/2030	10/20/2015	9,167,196	11/24/2011	2.1	05/19/2010	Issued 1	Rovi Guides, Inc.
	AND THE PROPERTY OF THE PROPER	Rovi Guides, Inc.	12/16/2030	08/18/2015	9,113,108	06/23/2011	2010 20110154403	05/04/2010	US Issued 12/773,205	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR SELECTIVELY OBSQURING PORTIONS OF MEDIA CONTENT USING A MIDGET	Rovi Guides, Inc.	08/26/2031	11/18/2014	8,893,169	06/30/2011	20110161999	12/30/2009	US Issued 12/649,910	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR TRANSFERRING CONTENT BETWEEN USER EQUIPMENT AND A WIRELESS COMMUNICATIONS DEVICE	Rovi Guides, Inc.	07/20/2032	12/01/2015	9,201,627	07/07/2011	2010 20110163939	01/05/2010	US Issued 12/652,572	Rovi Guides, Inc.
	ENERGY-EFFICIENT MEDIA EQUIPMENT DEVICE	Ravi Guides, Inc.	06/19/2033	09/30/2014	8,849,097	06/23/2011	1/2009 20110150431	12/21/	US Issued 12/643,727	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING INTERACTIVE CONTENT DURING WRITING AND PRODUCTION OF A MEDIA ASSET	Rovi Guides, Inc.	10/21/2030	03/06/2012	8,131,132	06/09/2011		12/04/2009	US Issued 12/631,107	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR GENERATING A THREE-DIMENSIONAL MEDIA GUIDANCE APPLICATION	Rovi Guides, Inc.	09/30/2029	03/20/2018	9,922,448	07/02/2015		01/20/2015	Issued 1	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR GENERATING A THREE-DIMENSIONAL MEDIA GUIDANCE APPLICATION	Royi Guides, Inc.	05/01/2032	Uaruarzuto	600,078,0	03/31/2011	è	8002/08/80	OS ISSUBO 1/25/1,28/	Ray Guides, Inc.
	SYSTEMS AND METHODS FOR NAVIGATING A THREE-DIMENSIONAL MEDIA GUIDANCE APPLICATION	Guides,	ODIZZIZOO I	0.00000	0,281,322	000012011		BODZIONED	Issubd	ROW Guides, Inc.
	SYSTEMS AND METHODS FOR AUTOMATICALLY GENERATING ADVERTISEMENTS USING A MEDIA GUIDANCE APPLICATION	Out of Contract, line	2000	010000000000000000000000000000000000000	0,000,010	000000000000000000000000000000000000000		000000000000000000000000000000000000000	Joseph	Total Guides, III.
	SYSTEMS AND METHODS FOR PROVIDING INTERACTIVE MEDIA GUIDANCE ON A WIRELESS COMMUNICATIONS DEVICE	Boyl Cuides Inc	15.00/20/190	01/22/2012	8 250 616	02/24/2011	-	00/20/	Included in	Book Guides Inc
	SYSTEMS AND METHODS FOR PROVIDING INTERACTIVE MEDIA GUIDANCE ON A WIRELESS COMMUNICATIONS DEVICE	Royl Guides Inc	03/05/0030	08/02/2016	9.405.710	12/30/2010	9 5	06/30/	100 ISSUED 12/495.528	Roy Guides Inc
	MANAGING AND EDITING STORED MEDIA ASSETS	Rovi Guides Inc	10,000,000	07/01/2014	8 760 578	15/20/010	+	9000/05/90	Nel 199	Box Guides Inc
	MAYMAING AND EULING STORED WEDIA ASSETS	Rovi Guides, Inc.	06/30/2029	10/27/2015	9,170,738	10/09/2014	2014 20140304310	04/07/	US Issued 14/246,767	Rovi Guides, Inc.
	STS LEWS AND METHOUS TORKNO LOWALLA DETECTING OSERS WITHIN DETECTION NEEDWOES OF MEDIA DEVICES	Rovi Guides, Inc.	03/27/2032	05/20/2014	8,731,373	12/30/2010	20100332560	06/30/2009	US Issued 12/495,680	Rovi Guides, Inc.
	ALCOHOLOGIC TO THE TOP OF THE TOP	Ravi Guides, Inc.					2019	07/12/2	US Pending 16/510,514	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR AUTOMATICALLY DETECTIVALUSERS WITHIN DETECTION REGIONS OF MEDIA DEVICES	Rovi Guides, Inc.	09/23/2029	07/23/2019	10,362,367	03/07/2019	2018 20190075368	08/30/	US Issued 16/117,981	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR AUTOMATICALLY DETECTING USERS WITHIN DETECTION REGIONS OF MEDIA DEWCES	Rovi Guides, Inc.	08/05/2030	09/25/2018	10,085,072	08/20/2015	20150237412	03/18/2015	US Issued 14/662,035	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR AUTOMATICALLY DETECTING USERS WITHIN DETECTION REGIONS OF MEDIA DEVICES	Rovi Guides, Inc.	12/10/2031	04/21/2015	9,014,546	03/24/2011	20110069940	09/23/2009	US Issued 12/565,486	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR CONTENT SCHEDULING ACROSS MULTIPLE DEMCES	Ravi Guides, Inc.	12/13/2029	09/13/2016	9,445,036	12/30/2010	20100333137	06/30/2009	US Issued 12/495,622	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR AUDIO ASSET STORAGE AND MANAGEMENT	Rovi Guides, Inc.	04/24/2030	12/23/2014	8,918,428	10/04/2012	2012 20120254234	03/13/2	US Issued 13/419,080	Rovi Guides, Inc.
RE	SYSTEMS AND METHODS FOR AUDIO ASSET STORAGE AND MANAGEMENT	Rovi Guides, Inc.	07/08/2030	04/17/2012	8,161,071	03/31/2011	201	09/3 0/2009	US Issued 12/570,110	Rovi Guides, Inc.
ΕE	SYSTEMS AND METHODS FOR IDENTIFYING AUDIO CONTENT USING AN INTERACTIVE MEDIA GUIDANCE APPLICATION	Rovi Guides, Inc.	10/31/2032	03/18/2014	8,677,400	03/31/2011		09/3 0/2009	US Issued 12/570,084	Rovi Guides, Inc.
EL	SYSTEMS AND METHODS FOR GENERATING A MEDIA GUIDANCE APPLICATION WITH MULTIPLE PERSPECTIVE VIEWS	Rovi Guides, Inc.	08/04/2030	02/14/2012	8,117,564	10/14/2010		09/3 0/2009	US Issued 12/571,186	Rovi Guides, Inc.
-	SYSTEMS AND METHODS FOR NAVIGATING A MEDIA GUIDANCE APPLICATION WITH MULTIPLE PERSPECTIVE VIEWS	Rovi Guides, Inc.	03/28/2031	10/08/2013	8,555,315	10/14/2010	2009 20100262995	09/3 0/2009	US Issued 12/571,069	Rovi Guides, Inc.
0	METHODS AND DEVICES FOR PRESENTING AN INTERACTIVE MEDIA GUIDANCE APPLICATION	Rovi Guides, Inc.	07/22/2028	12/22/2015	9,219,939		2014	01/23/2014	Issued 1	Rovi Guides, Inc.
ا 53	METHODS AND DEVICES FOR PRESENTING AN INTERACTIVE MEDIA GUIDANCE APPLICATION	Rovi Guides, Inc.	07/22/2028	03/04/2014	8,667,538		2012	09/14/2012	Issued	Rovi Guides, Inc.
P/	METHODS AND DEVICES FOR PRESENTING AN INTERACTIVE MEDIA GUIDANCE APPLICATION	Rovi Guides, Inc.	05/27/2029	12/04/2012	8,327,402		2008	07/22/2008	US Issued 12/177,790	Rovi Guides, Inc.
٦ 58	SYSTEMS AND METHODS FOR DISPLAYING MEDIA CONTENT AND MEDIA GUIDANCE INFORMATION	Rovi Guides, Inc.				07/18/2019	2019 20190222884	01/15/2019	Us Pending 16/248,383	Rovi Guides, Inc.
ΓE	SYSTEMS AND METHODS FOR DISPLAYING MEDIA CONTENT AND MEDIA GUIDANCE INFORMATION	Rovi Guides, Inc.	06/23/2028	01/22/2019	10,187,679	07/06/2017	2017 20170195705	03/20/2017	US Issued 15/463,823	Rovi Guides, Inc.
EN F	SYSTEMS AND METHODS FOR DISPLAYING MEDIA CONTENT AND MEDIA GUIDANCE INFORMATION	Rovi Guides, Inc.	07/01/2028	12/04/2018	10,148,988	05/18/2017	2016 20170142467	11/22/	Issued 1	Rovi Guides, Inc.
IT R#	SYSTEMS AND METHODS FOR DISPLAYING MEDIA CONTENT AND MEDIA GUIDANCE INFORMATION	Rovi Guides, Inc.	06/23/2028	01/03/2017	9,538,221	11/17/2016	N1	07/27/2016	Issued	Rovi Guides, Inc.
~ I	SYSTEMS AND METHODS FOR DISPLAYING MEDIA CONTENT AND MEDIA GUIDANGE INFORMATION	Rovi Guides, Inc.	06/23/2028	08/08/2016	9,414,120	06/25/2015	N1	03/08/2015	Issued 1	Rovi Guides, Inc.
<b>/1</b> I	SYSTEMS AND METHODS FOR DISPLAYING MEDIA CONTENT AND MEDIA GUIDANCE INFORMATION	Rovi Guides, Inc.	06/23/2028	03/10/2015	8,978,088	03/06/2014	2013 20140068667	10/07/2013	US Issued 14/047,495	Rovi Guides, Inc.
Ξ:	SYSTEMS AND METHODS FOR DISPLAYING MEDIA CONTENT AND MEDIA GUIDANCE INFORMATION	Rovi Guides, Inc.	07/20/2029	12/03/2013	8,601,526	12/17/2009	2008 20090313658	06/23/2008	US Issued 12/144,434	Rovi Guides, Inc.
0		Ravi Guides, Inc.				03/15/2018	- 53	07/24/2017	Pending	Rovi Guides, Inc.
8	SYSTEMS AND METHODS FOR BLOCKING SELECTED COMMERCIALS	Rovi Guides, Inc.	06/26/2030	07/25/2017	9,716,914			09/11/2012	US Issued 13/610,209	Rovi Guides, Inc.
52	SYSTEMS AND METHODS FOR BLOCKING SELECTED COMMERCIALS	Rovi Guides, Inc.	06/26/2030	11/13/2012	8,312,484		2008	04/03/2008	US Issued 12/062,283	Rovi Guides, Inc.
2	METHODS AND DEVICES FOR PRESENTING AN INTERACTIVE MEDIA GLIDANCE APPLICATION	Rovi Guides, Inc.				05/04/2017	2016 20170127138	11/04/2016	US Pending 15/343,538	Rovi Guides, Inc.

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	SYSTEMS AND METHODS FOR A SOCIAL FACILITATOR SERVICE	Rovi Guides, Inc.	11/30/2032	03/21/2017	9,602,606	06/05/2014	/30/2012 20140156746	691,105	US Issued 13K	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR ENABLING AN AUTOMATIC LIGENSE FOR MASHUPS	Royi Guides, Inc.	09/28/2032	10/27/2015	9,171,137	01/15/2015	20150020216	14/310,929 06	US Issued 147	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR ENABLING AN AUTOMATIC LICENSE FOR MASHUPS	Rovi Guides, Inc.	01/03/2033	08/05/2014	8,799,170	04/03/2014	28/2012 20140096263	3/630,782	US Issued 13/	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR SELECTING OPTIMIZED VIEWING PORTIONS	Rovi Guides, Inc.	09/19/2032	10/02/2018	10,091,552	03/20/2014	29/19/2012 20140082670	3/622,887	US Issued 13/	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR CONTROLLING AUDIO PLAYBACK ON PORTABLE DEVICES WITH VEHICLE EQUIPMENT	Rovi Guides, Inc.	11/10/2032	05/13/2014	8,725,125	04/03/2014	28/2012 20140094151	3/630,755 06	US Issued 13k	Rovi Guides, Inc.
		Rovi Guides, Inc.	08/31/2032	06/27/2017	9,688,115	11/27/2014	/06/2014 20140350798	4/453,079 08	US Issued 14/	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR PRODUCING THE ENVIRONMENTAL CONDITIONS OF A MEDIA ASSET IN A VEHICLE	Rovi Guides, Inc.	03/06/2033	08/08/2014	8,831,840	03/06/2014	38/31/2012 20140067208		Issued	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR AUTOMATIC PROGRAM RECOMMENDATIONS BASED ON USER INTERACTIONS	Royi Guides, Inc.				6102770050			rending	Royl Guides, Inc.
	SYSTEMS AND METHODS FOR AUTOMATIC PROGRAM RECOMMENDATIONS BASED ON USER INTERACTIONS	Rovi Guides, Inc.	09/25/2032	11/20/2018	10,133,810	07/19/2018			Issued	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR AUTOMATIC PROGRAM RECOMMENDATIONS BASED ON USER INTERACTIONS	Rovi Guides, Inc.	12/27/2032	12/26/2017	9,852,214	07/14/2016	3/23/2016 20160205426		Issued 1	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR AUTOMATIC PROGRAM RECOMMENDATIONS BASED ON USER INTERACTIONS	Rovi Guides, Inc.	09/25/2032	03/28/2016	9,298,810	08/10/2015	35/18/2015 20150254333		Issued	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR AUTOMATIC PROGRAM RECOMMENDATIONS BASED ON USER INTERACTIONS	Royi Guides, Inc.	11/03/2032	07/28/2015	9,092,415	03/2//2014			Issued	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR TRACKING CONTENT SOURCES FROM WHICH MEDIA ASSETS HAVE PREVIOUSLY BEEN VIEWED	De la companya de la	11.00	07/00/00/0	0.000 142	000000000000000000000000000000000000000	-			Donald Control of the
	SYSTEMS AND METHODS FOR FACILITATING COMMUNICATION BETWEEN USERS RECEIVING A COMMON MEDIA ASSET	Boyl Guides Inc	08/00/00/00	06/17/2014	9 756 A20	VI-UC/UC/CU	3 1		100000	Post Guidee Inc
	METHODS AND SYSTEMS FOR PRIORITIZING LISTINGS BASED ON REAL-TIME DATA	Roy Guides Inc.	000000000000000000000000000000000000000	0820000	0,080,764	02/00/2014	000000000000000000000000000000000000000	7837562	Teo ind	Dovi Guides, Inc.
	SYSTEMS AND METHODS FOR MATCHING MEDIA CONTENT DATA	Royi Guides Inc	CEUCISIUM SPREETISIS	07/08/0014	0.004.708	40/40/2013	+ -		Inc. Inc.	Roy Guides Inc
	SYSTEM AND METHODS FOR AUTOMATICALLY OBTAINING COST-EFFICIENT ACCESS TO A MEDIA CONTENT COLLECTION	Royl Guides Inc	000000	03/24/2015	8 990 223	01/00/c0/10	B/28/2012 20140008423		Name of the second	Boyl Guides Inc
	SYSTEM AND METHODS FOR AUTOMATICALLY OBTAINING COST-EFFICIENT ACCESS TO A MEDIA CONTENT COLLECTION	Royl Guides Inc	06/27/2032	08/08/0018	10 063 899	08/21/2017		5/431 184	SCI PA	Roy Guides Inc
	SYSTEMS AND METHODS FOR INDICATING MEDIA ASSET ACCESS CONFLICTS USING A TIME BAR	Royi Guides Inc	09/19/2032	03/28/2017	9 609 374	01/02/2014			Seme	Roy Guides Inc
	SYSTEMS AND METHODS FOR PROVIDING A CUSTOWIZED PROCRAM LINEUP	Royi Guides, Inc.	04/27/2032	11/25/2014	8.898.694	10/31/2013			Issued	Royi Guides, Inc.
	STS LEWS NEUTROUS FOR PRODUING A COSTONICED PROGRAM UNEQUE	Royi Guides, Inc.	06/20/2032	01/05/2016	9,232,271	10/08/2015	20150289016	4/742,320 06	US Issued 14/	Royl Guides, Inc.
	RESERVE AND ALTHOUGH DO DEPONDENCE OF RECOVERED REPONDENCE OF THE PROPERTY OF	Rovi Guides, Inc.	06/20/2032	07/21/2015	9,088,824	02/26/2015	/05/2014 20150058891	4/478,888 09	US Issued 14/4	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR PROVIDING A CUSTOMIZED PROCEAM LINEUP	Rovi Guides, Inc.	04/06/2033	10/07/2014	8,856,847	12/26/2013	20/2012 20130347037	3/528,144 06	US Issued 13/	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR ADAPTIVELY TRANSMITTING MEDIA AND ADVERTISING CONTENT	Ravi Guides, Inc.	04/13/2032	10/15/2013	8,561,104	10/03/2013	20130263179	3/436,130 03	US Issued 13/	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR ADAPTIVELY TRANSMITTING MEDIA AND ADVERTISING CONTENT	Royl Guides, Inc.	06/03/2033	01/06/2015	8,930,987	10/03/2013	23/30/2012 20130263178	13/436,121 03	US Issued 134	Rovi Guides, Inc.
	SYSTEM AND METHODS FOR MODIFYING IMPROPERLY FORMATTED METADATA	Rovi Guides, Inc.	03/28/2032	12/06/2016	9,516,386	02/05/2015	_		Issued	Rovi Guides, Inc.
	SYSTEM AND METHODS FOR MODERNING IMPROPERLY FORMATTED METADATA	Royi Guides, Inc.	03/28/2032	11/25/2014	8,888,705	10/03/2013	19/28/2012 20130283184	3/432,932	Issued	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR GENERATING A USER PROFILE BASED CUSTOMIZED DISPLAY THAT INCLUDES USER-GENERATED AND NON-USER GENERATED CONTENT	ROY GUIDES, I'll	00/14/2002	10102010	8,181,720	02/17/2014	à		lasued	Con Guides, Inc.
	SYSTEMS AND METHODS FOR GENERATING A USER PROFILE BASED CUSTOMIZED MEDIA GUIDE WITH USER-GENERATED CONTENT AND NON-USER-GENERATED CONTENT			4444		2000				0.000
	SYSTEMS AND METHODS FOR AUTHENTICATION OF DIGITAL CONTENT	Royi Guides Inc	05/14/2032	04/20/20/40	8 713 606	11/14/2013			rection of	Boyl Guides Inc
	SYSTEMS AND METHODS FOR TRANSFERRING SETTINGS ACROSS DEVICES BASED ON USER GESTURES	Royl Guides, Inc.	0111212000	010202010	9,219,122	03000000	20130100040	3340,316	50000	Royl Guides, Inc.
	SYSTEMS AND METHODS FOR MANAGING DIGITAL RIGHTS BASED ON A UNION OR INTERSECTION OF NODINDUAL RIGHTS	NOVI GUIDES, INC.	IZ/QUZUOI	08000000	8,128,007	070402010	2/30/2011 20130174273		Solba	Roy Guides, Inc.
	SYSTEMS AND METHODS FOR TEMPORARY ASSIGNMENT AND EXCHANGE OF DIGITAL ACCESS RIGHTS	Novi Galacia, inc.	0121200	0100000000	0,000,700	0.000			L Supple	Pari Oridan Inc.
	WETHODS AND SYSTEMS FOR PERFORMING ACTIONS BASED ONLOCATION-BASED RULES	Boyl Guides Inc	01/21/20	04/14/2015	9 009 794	07/04/2013	٠.		in in its and	Box Guides Inc
	METHODS AND SYSTEMS FOR PERFORMING ACTIONS BASED ONLOCATION BASED RULES		1003031	05/08/2018	9 967 708	01/28/2016	2/20/015 20160029169	2	gg lag	Royi Guides Inc
R	METHODS AND SYSTEMS FOR PERFORMING ACTIONS BASED ONLOCATION BASED RULES	Royi Guides Inc	12/23/2031	09/01/2015	9 125 169	11/20/2014	26/2014 20140342759	4/316 499 06	Ssued	Roy Guides Inc
ΕI	SYSTEMS AND METHODS FOR SHARING PROFILE INFORMATION USING USER PREFERENCE TAG CLOUDS	Rovi Guides, Inc.	12/23/2031	08/12/2014	8.805.418	06/27/2013	_		ssued	Royi Guides, Inc.
Ę.	METHODS AND SYSTEMS FOR PROVIDING RELEVANT SUPPLEMENTAL CONTENT TO A USER DEVICE	Royi Guides Inc	12/28/2031	12/02/2014	8 903 819	07/04/2013	2/28/2011 20130173533	3/338 578	Semes.	Royi Guides Inc
-	METHODS AND SYSTEMS FOR PROVIDING RELEVANT SUPPLEMENTAL CONTENT TO A USER DEVICE	Royi Guides, Inc.					17/19/2019	6/517.273 07	Dending	Royi Guides, Inc.
0	SYSTEMS AND METHODS FOR SYNCHRONIZING PLAYBACK AT MULTIPLE LOCATIONS	Royi Guides Inc	01/10/2032	12/23/2014	8917971	07/04/2013	20130170813		Seu	Roy Guides Inc
53	SYSTEMS AND METHODS FOR SYNCHRONIZING PLAYBACK AT MULTIPLE LOCATIONS	Royi Guides Inc.	02/12/2022	71020000	0 014 525	01/02/2014	9/03/2013 2014/00/07/70		US Issued 1447	Roy Guides Inc
P/ 34	SYSTEMS AND METHODS FOR PRESENTING MULTIPLE ASSETS IN AN INTERACTIVE MEDIA GUIDANCE APPLICATION	Rovi Guides, Inc.	11/25/2032	02/24/2015	8,966,530	07/04/2013			Issued	Roy Guides, Inc.
A 5	SYSTEMS AND METHODS FOR DETECTING UNAUTHORIZED USE OF A USER EQUIPMENT DEVICE	ROVI Guides, Inc.	08/20/2001	02/20/2013	0,307,004		128/2011	247,086	Issued	Royi Guides, Inc.
TE B	METHODS AND SYSTEMS FOR CUSTOMIZING VIEWING ENVIRONMENT PREFERENCES IN A VIEWING ENVIRONMENT CONTROL APPLICATION	Rovi Guides, Inc.	01/27/2032	02/03/2015	8,949,901	01/03/2013	06/29/2011 20130007809	13/172,533 06	Issued	Rovi Guides, Inc.
FI	SYSTEMS AND METHODS FOR PROVIDING MEDIA RECOMMENDATIONS	Rovi Guides, Inc.	03/16/2032	GLOZIZIVLO	8,235,574	12/13/2012	_		ISSUBO	Royl Guides, Inc.
۱٦ R	SYSTEMS AND METHODS FOR GENERATING AND DISPLAYING USER PREFERENCE TAG CLOUDS	NOVI GUIDES, INC.	000000000000000000000000000000000000000	DI DIZEZIONE	0,424,004	0100000			Subus	Row Guides, Inc.
A I	SYSTEMS AND METHODS FOR GENERATING VIDEO HINTS FOR SEGMENTS WITHIN AN INTERACTIVE VIDEO GAMING ENMRONMENT	Rovi Guides, Inc.	12/28/2032	03/21/2017	9,597,600	04/10/2014	2/10/2013 20140100040		Issued	Rovi Guides, Inc.
۷I	SYSTEMS AND METHODS FOR GENERATING VIDEO HINTS FOR SEGMENTS WITHIN AN INTERACTIVE VIDEO GAVING ENVIRONMENT	Royl Guides, Inc.	06/28/2031	01/14/2014	8,628,423	01/03/2013	٠.		Issued	Royl Guides, Inc.
E:	SYSTEMS AND METHODS FOR TRANSMITTING MEDIA ASSOCIATED WITH A MEASURE OF QUALITY BASED ON LEVEL OF GAME PLAY IN AN INTERACTIVE VIDEO GAMING ENVIRONMENT	Rovi Guides, Inc.				07/11/2019	01/08/2019 20190215570		Pending	Rovi Guides, Inc.
0	SYSTEMS AND METHODS FOR TRANSMITTING MEDIA ASSOCIATED WITH A MEASURE OF QUALITY BASED ON LEVEL OF GAME PLAY IN AN INTERACTIVE VIDEO GAMING EMIRONMENT	Rovi Guides, Inc.	05/31/2031	02/26/2019	10,219,041	09/13/2018			Issued 1	Rovi Guides, Inc.
8	SYSTEMS AND METHODS FOR TRANSMITTING MEDIA ASSOCIATED WITH A MEASURE OF QUALITY BASED ON LEVEL OF GAME PLAY IN AN INTERACTIVE VIDEO GAMING ENVIRONMENT	Rovi Guides, Inc.	05/31/2031	06/05/2018	9,992,543	03/22/2018	1/30/2017 20180084304		Issued	Rovi Guides, Inc.
53	SYSTEMS AND METHODS FOR TRANSMITTING MEDIA ASSOCIATED WITH A MEASURE OF QUALITY BASED ON LEVEL OF GAME PLAY IN AN INTERACTIVE VIDEO GAMING ENVIRONMENT	Rovi Guides, Inc.	05/31/2031	12/19/2017	9,848,245	05/04/2017	0/06/2016 20170127135	15/286,846 10	Issued	Rovi Guides, Inc.
3	SYSTEMS AND METHODS FOR TRANSMITTING MEDIA ASSOCIATED WITH A MEASURE OF QUALITY BASED ON LEVEL OF GAME PLAY IN AN INTERACTIVE VIDEO GAMING ENVIRONMENT	Rovi Guides, Inc.	09/03/2031	11/08/2016	9,486,698	04/10/2014			Issued	Rovi Guides, Inc.
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	METHODS AND SYSTEMS FOR SUPPLEMENTING MEDIA ASSETS DURING FAST-ACCESS PLAYBACK OPERATIONS	Rovi Guides, Inc.	08/25/2034	03/07/2017	15 9,591,365	08/27/20	02/26/2014 20150245101	US Issued 14/190,235	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR SELECTING MEDIA GUIDANCE FUNCTIONS BASED ON TACTILE ATTRIBUTES OF A USER INPUT	Rovi Guides, Inc.			-	10/03/2019	04/10/2019 20190302892	US Pending 16/380,337	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR SELECTING MEDIA GUIDANCE FUNCTIONS BASED ON TACTILE ATTRIBUTES OF A USER INPUT	Royl Guides, Inc.	08/01/2034	05/21/2019	10,296,090	01/26/2017	10/05/2016   2017/0024012	US Issued 15/285,751	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR SELECTING MEDIA GUIDANCE FUNCTIONS BASED ON TACTILE ATTRIBUTES OF A USER INPUT	Rovi Guides, Inc.		11/01/2016	-			Issued	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR AUTOMATICALLY TAGGING A MEDIA ASSET BASED ON VERBAL INPUT AND PLAYBACK ADJUSTMENTS	Royi Guides, Inc.	07/30/2034	920			2000/2013	Dansa	ROY GUIGES, FIG.
	METHODS AND SYSTEMS FOR PREDICTING USER VIEWING PREFERENCES BASED ON DETECTED EVENTS	ROVI Guides, Inc.	12/24/2033	USIZZIZUTO		GLOZIGZIGO	12/20/2013 20150181289	Issued	Roy Guides, Inc.
	SYSTEMS AND METHODS FOR ASSOCIATING TAGS WITH MEDIA ASSETS BASED ON VERBAL INPUT	Royl Guides, Inc.	09/20/2034	07/18/2016				Issued	Royl Guides, Inc.
	METHODS AND SYSTEMS FOR SELECTING MODES BASED ON THE LEVEL OF ENGAGEMENT OF A USER	Rovi Guides, Inc.	04/29/2034	06/07/2016	60	07/02/2015	12/27/2013 20150185993	Issued	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR COMBINING MEDIA RECOMMENDATIONS FROM MULTIPLE RECOMMENDATION ENGINES	Rovi Guides, Inc.		02/08/2016	fo		_	Issued	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR RECOMMENDING MEDIA CONTENT RELATED TO A RECENTLY COMPLETED ACTIVITY	Ravi Guides, Inc.					-	Pending 1	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR RECOMMENDING MEDIA CONTENT RELATED TO A RECENTLY COMPLETED ACTIVITY	Ravi Guides, Inc.	11/19/2033	07/02/2019	10,341,729	07/12/2018	10/06/2017 20180189106	Issued	Rovi Guides, Inc.
	METHODS AND SYSTEMS FOR RECOMMENDING MEDIA CONTENT RELATED TO A RECENTLY COMPLETED ACTIVITY	Royl Guides, Inc.		10/10/2017	-			Issued	Royl Guides, Inc.
	SYSTEMS AND METHODS FOR PRESENTING SOCIAL NETWORK COMMUNICATIONS IN ALDIBLE FORM BASED ON USER ENGAGEMENT WITH A USER DEVICE	ROVI Guides, Inc.						Burnalia	Roy Guides, mc
	SYSTEMS AND METHODS FOR PRESENTING SOCIAL NETWORK COMMUNICATIONS IN AUDIBLE FORM BASED ON USER ENGAGEMENT WITH A USER DEVICE	ON GUIDES, ITIE	00/20/2004	02/13/2010	a,0az,/20	L		90000	Ross Guides, Iric.
	SYSTEMS AND METHODS FOR RECOMMENDING CONTENT	Royl Guides, Inc.		000000000000000000000000000000000000000				Pending.	Roy Guides, mc.
	SYSTEMS AND METHODS FOR RECOMMENDING CONTENT	ROVI Guides, inc.	11704/2033	107/00/00	9,074,003		1	Sued	Roy Guides, mc
	METHODS AND SYSTEMS FOR PRESENTING DIRECTION-SPECIFIC MEDIA ASSETS	Covidence, mic.					_	e di	Novi Galdes, inc.
	METHODS AND SYSTEMS FOR PRESENTING DIRECTION SPECIFIC MEDIA ASSETS	Doub Cuidos Inc.	O T I O Z O O M	0.0000000000000000000000000000000000000	10,100,01	R S	3 1	D Succession	Povi Guides Inc.
	METHODS AND SYSTEMS FOR MONITORING ATTENTIVENESS OF A USER BASED ON BRAIN ACTIVITY	Royi Guides, Inc.	02/16/2022	04/2/3/2U18	<u> </u>	01,	09/26/2013 20150033245	ISSUBO 1	Revi Guides, Inc.
	METHODS AND SYSTEMS FOR GENERATING ICONS ASSOCIATED WITH PROVIDING BRAIN STATE FEEDBACK	Royl Guides, Inc.		06/14/2016			-	ssued	Roy Guides, Inc.
	METHODS AND SYSTEMS FOR PRESENTING SUPPLEMENTAL CONTENT IN MEDIA ASSETS	Royl Guldes, Inc.		ירטבעורנוט				Issued	Roy Guides, Inc.
	METHODS AND SYSTEMS FOR RECOMMENDING MEDIA ASSETS BASED ON SCENT	Oliver Colored	1000000	10200201			1 0	i asueu	Novi Guides, inc.
	SYSTEMS AND METHODS FOR GENERATING MEDIA ASSET REPRESENTATIONS BASED ON USER EMOTIONAL RESPONSES	Royi Guides Inc.	000000000000000000000000000000000000000	12/28/2017			٠,	leg load	Post Guides Inc
	METHODS AND SYSTEMS FOR GENERATING AUTOMATIC REPLAYS IN A MEDIA ASSET		> 0	07/08/07/0		0 0	1 0	Sound A	Royi Guides, Iric.
	SYSTEMS AND METHODS FOR VISUALIZING STORAGE AVAILABILITY OF A DNR	Boyl Cuidee Inc		07/10/2016			-	100	
	METHODS AND SYSTEMS FOR ARRANGING MEDIA OBJECTS ON A DISPLAY SCREEN TO COMPENSATE FOR USER DISABILITIES	Royl Guides Inc	75UC/6C/9U	06/28/2016	2 .			In the second	Roy Guides Inc
	WETHODS AND SYSTEMS FOR COMPONSATING FOR DISABILITIES WHEN PRESENTING A MEDIA ASSET	Doug Cuides Inc	10,000,0033	01/05/2016			-	001004	Dov. Original Pro-
	METHODS AND SYSTEMS FOR COMPENSATING FOR DISABILITIES WHEN PRESENTING A MEDIA ASSET	Royi Guides, Inc.		03/15/2016				Issued	Royi Guides, Inc.
	ENERGY/SAVING SYSTEMS AND METHODS FOR UPDATING MEDIA INFORMATION	Rovi Guides, Inc.	9	01/06/2015		1	05/17/2013 20140344839	Issued 1	Rovi Guides, Inc.
		Rovi Guides, Inc.	11/13/2033	06/02/2015		_		Issued 1	Rovi Guides, Inc.
	STOLENS AND MELITURE PURKECURATING CONTENT FROM A DIFFERENT SOLING WHEN FREMOS CONTENT RAINS OFFER	Rovi Guides, Inc.	05/13/2033	10/24/2017	7 9,800,923	06/08/2017	02/21/2017 20170164040	US Issued 15/437,919	Royl Guides, Inc.
	פעיפידנונפ איני וויידערטיפי פיט מפיטיסטאוט איני דפטעון איני מפיטיע מייני	Rovi Guides, Inc.	09/18/2033	04/04/2017	5 9,615,127	11/05/2015	05/20/2015 20150319480	US Issued 14/717,876	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR RECOGNING CONTENT FROM A DIFFERENT SOLING WHEN DREVIOUS CONTENT RUNS OVER	Rovi Guides, Inc.	12/21/2033	06/23/2015	9,066,132	11/13/2014	05/13/2013 20140337893	US Issued 13/892,957	Rovi Guides, Inc.
	SYSTEMS AND METHODS FOR DYNAMICALLY ADJUSTING VOLUME BASED ON MEDIA CONTENT	Rovi Guides, Inc.	04/15/2034	02/14/2017	9,571,054	08/28/2014	02/28/2013 20140240598	US Issued 13/780,732	Rovi Guides, Inc.
F		Rovi Guides, Inc.	04/03/2034	03/21/2017	9,602,876	08/28/20	02/27/2013 20140245144	US Issued 13/778,982	Roy Guides, Inc.
₹E	METHODS AND SYSTEMS FOR RECTIFYING THE LENGTHS OF MEDIA PLAYLISTS BASED ON TIME CRITERIA	Rovi Guides, Inc.	09/03/2033	09/15/2015	9,134,790	09/18/2014	03/13/2013 20140281973	US Issued 13/799,344	Rovi Guides, Inc.
:E	METHODS AND SYSTEMS FOR CREATING A SHAPED PLAYLIST	Rovi Guides, Inc.	11/26/2033	05/26/2015	9,043,702	09/18/2014	03/13/2013 20140281972	US Issued 13/799,220	Rovi Guides, Inc.
:L	SYSTEMS AND METHODS FOR AUTOCONFIGURING A USER EQUIPMENT DEVICE WITH CONTENT CONSUMPTION MATERIAL	Rovi Guides, Inc.			18	06/21/2018	12/18/2017 20180176751	US Pending 15/845,179	Rovi Guides, Inc.
:	SYSTEMS AND METHODS FOR AUTO-CONFIGURING A USER EQUIPMENT DEVICE WITH CONTENT CONSUMPTION MATERIAL	Rovi Guides, Inc.	07/25/2033	12/19/2017	9,848,276	09/11/2014	03/11/2013 20140258481	US Issued 13/794,292	Rovi Guides, Inc.
0	SYSTEMS AND METHODS FOR UPDATING THE DISPLAY OF PREFERRED MEDIA ASSET SOURCES	Rovi Guides, Inc.	12/11/2032	11/26/2013	8,595,771		12/11/2012	US Issued 13/711,393	Rovi Guides, Inc.
[ 53	SYSTEMS AND METHODS FOR IMPLEMENTING A DEGREE OF SEPARATION GAME IN AN INTERACTIVE MEDIA APPLICATION	Rovi Guides, Inc.	02/15/2033	06/17/2014	8,753,185		02/15/2013	US Issued 13/768,845	Rovi Guides, Inc.
ر 4	SYSTEMS AND METHODS FOR BROWSING CONTENT STORED IN THE VIEWER'S VIDEO LIBRARY	Ravi Guides, Inc.			8	11/08/2018	05/11/2018 2018032449	US Pending 15/977,845	Rovi Guides, Inc.
٦٦ 58	METHODS AND SYSTEMS FOR DISPLAYING CONTEXTUALLY RELEVANT INFORMATION FROM A PLURALITY OF USERS IN REAL-TIME REGARDING A MEDIA ASSET	Rovi Guides, Inc.	12/05/2032	03/21/2017	9,602,886	11/27/2014	08/12/2014 2014035183	US Issued 14/457,420	Rovi Guides, Inc.
ΓE 3 Ι	METHODS AND SYSTEMS FOR DISPLAYING CONTEXTUALLY RELEVANT INFORMATION FROM A PLURALITY OF USERS IN REAL-TIME REGARDING A MEDIA ASSET	Rovi Guides, Inc.	12/05/2032	09/16/2014	8,839,309	06/05/2014	12/05/2012 20140157296	US Issued 13/705,837	Rovi Guides, Inc.
EN F#	METHODS AND SYSTEMS FOR VISUALLY DISTRICUSHING OBJECTS APPEARING IN A MEDIA ASSET	Rovi Guides, Inc.	10/08/2033	08/09/2016	9,409,081	05/22/2014	11/16/2012 20140141877	US Issued 13/678,685	Rovi Guides, Inc.
IT R#		Rovi Guides, Inc.	05/16/2034	11/17/2015	9,191,689	5 06/26/20	12/21/2012 20140181855	US Issued 13/725,392	Rovi Guides, Inc.
		Rovi Guides, Inc.	12/20/2032	07/05/2016	15 9,384,424	11/05/2015	05/27/2015 2015031754	US Issued 14/723,228	Rovi Guides, Inc.
/II	METHODS AND SYSTEMS FOR CUSTOMIZING A PLENOPTIC MEDIA ASSET	Rovi Guides, Inc.	05/05/2033	06/30/2015	9,070,050	06/26/2014	12/20/2012 20140177905	US Issued 13/721,460	Rovi Guides, Inc.
Ξ:	SYSTEMS AND METHODS FOR AUTOMATICALLY ADJUSTING AUDIO BASED ON GAZE POINT	Rovi Guides, Inc.		10/07/2014				Issued 1	Rovi Guides, Inc.
0	SYSTEMS AND METHODS FOR PRESENTING CONTENT SIMULTANEOUSLY IN DIFFERENT FORMS BASED ON PARENTAL CONTROL SETTINGS	Rovi Guides, Inc.			19	06/13/2019	12/07/2018 20190182521	US   Pending   16/213,926	Rovi Guides, Inc.
8	SYSTEMS AND METHODS FOR PRESENTING CONTENT SIMULTANEOUSLY IN DIFFERENT FORMS BASED ON PARENTAL CONTROL SETTINGS	Rovi Guides, Inc.	11/28/2032	02/05/2019	10,200,734	03/08/2018	08/11/2017 20180070123	US Issued 15/701,405	Rovi Guides, Inc.
54	SYSTEMS AND METHODS FOR PRESENTING CONTENT SIMULTANEOUSLY IN DIFFERENT FORMS BASED ON PARENTAL CONTROL SETTINGS	Ravi Guides, Inc.	12/20/2032	09/12/2017	9,762,944	05/29/2014	11/28/2012 20140150009	US Issued 13/687,627	Rovi Guides, Inc.
L	SYSTEMS AND METHODS FOR CONNECTING MEDIA DEVICES THROUGH WEB SOCKET'S	Rovi Guides, Inc.	09/17/2033	02/02/2016	9,253,262	07/24/2014	01/24/2013 20140207957	US Issued  13/749,501	Rovi Guides, Inc.

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	3	19/15/2029 Veveo, Inc.	4/12/2011 09/	7,925,986 04	04/10/2008	20080086704	09/27/2007	3 Issued 11/862,917	. Us	Veveo, Inc.
	2	/20/2027 Veves, Inc.	7/02/2013 06/	8,478,794 07	03/15/2012	20120066611	11/15/2011	3 Issued 13/296,477	. Us	Veveo, Inc.
MENTING RELATIVE USER PREFERENCES INTO FINE-GRAIN AND COARSE-GRAIN COLLECTIONS	Inc. METHODS AND SYSTEMS FOR SEGMENTING	1/31/2027 Veveo, II	1/27/2015 10.	8,943,083 01	03/08/2012	20120060119	11/15/2011	lssued 13/296,486	. Us	Veveo, Inc.
MENTING RELATIVE USER PREFERENCES INTO FINE-GRAIN AND COARSE-GRAIN COLLECTIONS	METHODS AND SYSTEMS FOR SEG	03/06/2027 Veves, Inc	7/07/2015 03/	9,075,861 07	03/08/2012	20120060120	11/15/2011	lssued 13/296,490	US	Veveo, Inc.
DERING CONTENT ITEMS ACCORDING TO LEARNED USER PREFERENCES	METHODS AND SYSTEMS FOR ORD	/22/2028 Veveo, Inc.	2/07/2012 01/	8,112,454 02	08/27/2009	20090217203	05/05/2008	s Issued 12/435,899	. us	Veveo, Inc.
ETHODS AND SYSTEMS FOR SEGMENTING RELATIVE USER PREFERENCES INTO FINE-CRAIN AND COARSE-CRAIN COLLECTIONS	~	0/31/2027 Veveo, Inc	5/05/2009 10/	7,529,741 05	11/29/2007	20070276859	03/06/2007	11/682,596	US	Veveo, Inc.
AMICALLY REARRANGING SEARCH RESULTS INTO HERARCHICALLY ORGANIZED CONCEPT CLUSTERS	Inc. METHODS AND SYSTEMS FOR DYNAMICALLY	Veveo, II			01/10/2019	20190012398	07/16/2018	Pending 16/036,362		Veveo, Inc.
ETHODS AND SYSTEMS FOR DYNAMICALLY REARRANGING SEARCH RESULTS INTO HERARCHICALLY ORGANIZED CONCEPT CLUSTERS	м	09/14/2027 Veves, Inc.	7/17/2018 09/	10,025,869 07	01/26/2012	20120023102	08/3 0/2011	3 Issued 13/220,896		Veveo, Inc.
ETHODS AND SYSTEMS FOR DYNAMICALLY REARRANGING SEARCH RESULTS INTO HERARCHICALLY ORGANIZED CONCEPT CLUSTERS	~				08/06/2009		04/14/2009	Issued		Veveo, Inc.
RMING DYNAMIC INTERSECTION SEARCHES USING DESCRIPTIVE TERMS AND CONCEPTS CHARACTERIZING THE TERMS	METHOD AND SYSTEM FOR PERFC	/14/2027 Veves, Inc.	5/19/2009 09/	7,536,384 05	03/20/2008	20080071771	09/14/2007	3 Issued 11/855,661	US	Veveo, Inc.
SER INTERFACE METHODS AND SYSTEMS FOR SELECTING AND PRESENTING CONTENT BASED ON RELATIONSHIPS SETMEEN THE USER AND OTHER MEMBERS OF AN ORGANIZATION		./20/2027 Veveo, Inc.	5/26/2009 04/	7,539,676 05	12/13/2007	20	04/20/2007	Issued 1		Veveo, Inc.
ETHODS AND SYSTEMS FOR SELECTING AND PRESENTING CONTENT BASED ON USER RELATIONSHIPS		Veveo, Inc.					02/14/2019	3 Pending 16/276,470	. US	Veveo, Inc.
JSER INTERFACE METHODS AND SYSTEMS FOR SELECTING AND PRESENTING CONTENT BASED ON USER RELATIONSHIPS	Inc. USER INTERFACE METHODS AND SYSTEMS F	Veveo, I			05/02/2019	20190129897	10/29/2018	S Pending 16/174,073	. us	Veveo, Inc.

Extend   10019_465	Rovi Guides, Inc.	Rovi Guides, Inc.	Rovi Guides, Inc.	Rovi Guides, Inc.	Rovi Guides, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.
																									US Issue
2014/00/2016	ing 16/553,337	ing 16/406,813	ing 16/296,953	ing 16/296,948	ing 16/296,928		ing 16/164,280		ing 15/913,609	d 14/274,147	ing 16/015,492		ing 16/171,093			ing 15/277,288		ing 15/228,847						ing 15/615,661	d 13/019,465
05804/2011   0703,78	08/28/2019	05/08/2019	03/08/2019	03/08/2019	03/08/2019	02/18/2015	10/18/2018	05/07/2014	03/06/2018	05/09/2014	06/22/2018	03/13/2013	10/25/2018	08/31/2017	03/13/2013	09/27/2016	03/13/2013	08/04/2016		11/04/2013	11/04/2013	11/02/2012	11/02/2012	06/06/2017	02/02/2011
0.753,778						20150234820	0190051317	20140337370	0180260445	20140337381	20180365320	20140108453	20190130899	20170365254	0140039895	20170017719	20140040274	20160342702	0140025706	0140058724	20140163965		20140025705	0180024996	20110191331
07/1/2017 05/15/2023 Veves, Inc. 05/20/2016 02/24/2023 Veves, Inc. 1105/20216 02/24/2023 Veves, Inc. 1105/20216 11/102/2022 Veves, Inc. 1107/20216 11/102/2022 Veves, Inc. 1107/20216 11/102/2022 Veves, Inc. 1107/20216 02/15/2023 Veves, Inc. 1024/2017 12/11/2023 Veves, Inc. 1024/2018 02/15/2023 Veves, Inc. 1107/20216 02/15/2023 Veves, Inc. 1107/2						08/20/2015	02/14/2019	11/13/2014	09/13/2018	11/13/2014	12/20/2018	04/17/2014	05/02/2019	12/21/2017	02/06/2014	01/19/2017	02/06/2014	11/24/2016	01/23/2014	02/27/2014	06/12/2014		01/23/2014	01/25/2018	08/04/2011
08/92/0322 Veveo, Inc.  02/24/2033 Veveo, Inc.  11/02/20323 Veveo, Inc.  11/02/20323 Veveo, Inc.  11/02/20323 Veveo, Inc.  11/02/20323 Veveo, Inc.  12/11/20233 Veveo, Inc.  02/12/20323 Veveo, Inc.  12/11/20233 Veveo, Inc.  02/12/20323 Veveo, Inc.  12/11/20233 Veveo, Inc.  12/11/20233 Veveo, Inc.  11/07/20233 Veveo, Inc.  11/07/20233 Veveo, Inc.  11/07/20235 Veveo, Inc.  11/07/20235 Veveo, Inc.  11/07/20236 Veveo, Inc.  11/07/20237 Veveo, Inc.  11/07/20238 Veveo, Inc.						9,712,482		10,121,493		9,946,757		10,031,968		10,140,982	9,799,328		9,465,833		9,183,183	9,477,643	8,954,318	8,577,671	9,424,233		9,703,779
Verses, Inc.  Royd Guides, Inc.						07/18/2017		11/06/2018		04/17/2018		07/24/2018		11/27/2018	10/24/2017		10/11/2016		11/10/2015	10/25/2016	02/10/2015	11/05/2013	08/23/2016		07/11/2017
, Fino.						01/10/2036		11/07/2035		08/25/2035		10/15/2033		03/13/2033	12/11/2033		03/13/2033		11/02/2032	11/02/2032	11/02/2032	11/02/2032	02/24/2033		08/18/2032
METHOD OF AND SYSTEM FOR ENHANCED LOCAL-DENCE CONTENT DISCOVERY  METHOD OF AND SYSTEM FOR ENHANCED LOCAL-DENCE CONTENT DISCOVERY  METHOD OF AND SYSTEM FOR ENHANCED LOCAL-DENCE CONTENT DISCOVERSATIONAL METHOD SYSTEM  METHOD OF AND SYSTEM FOR USING CONVERSATION STATE MECHANTON IN A CONVERSATIONAL METHOD SYSTEM  METHOD OF AND SYSTEM FOR USING CONVERSATION STATE MECHANTON IN A CONVERSATIONAL METHOD SYSTEM  METHOD OF AND SYSTEM FOR USING CONVERSATION STATE MECHANTON IN A CONVERSATIONAL METHOD SYSTEM  METHOD OF AND SYSTEM FOR USING CONVERSATION STATE MECHANTON IN A CONVERSATIONAL METHOD SYSTEM  METHOD OF AND SYSTEM FOR USING CONVERSATION STATE MECHANTON IN A CONVERSATIONAL METHOD SYSTEM  METHOD OF AND SYSTEM FOR RESPONDED TO A SYSTEM MECHANTON IN A CONVERSATIONAL METHOD SYSTEM  METHOD OF AND SYSTEM FOR RESPONDED TO A SYSTEM PROPARATION IN A CONVERSATIONAL METHOD SYSTEM  METHOD OF AND SYSTEM FOR RESPONDED TO A SYSTEM MECHANTON IN A CONVERSATIONAL METHOD ON SYSTEM  METHOD OF AND SYSTEM FOR RESPONDED TO A SYSTEM PROPARATION IN A CONVERSATIONAL METHOD ON SYSTEM  METHOD FOR USING PAUSES DETECTED IN SPECIAL PROFIT ON ASSIST IN INTERPRETATIONAL METHOD ON METHOD TO A DAY THE CONVERSATIONAL INTERPRETATION THE INFORMATION RETRIEVAL  METHOD FOR USING PAUSES DETECTED IN SPECIAL PROFIT ON ASSIST IN INTERPRETATION THE INFORMATION RETRIEVAL  METHOD FOR USING PAUSES DETECTED IN SPECIAL PROFIT ON ASSIST IN INTERPRETATION THE INFORMATION RETRIEVAL  METHOD FOR USING PAUSES DETECTED IN SPECIAL PROFIT ON ASSIST IN INTERPRETATION THE INFORMATION RETRIEVAL  METHOD FOR USING PAUSES DETECTED IN SPECIAL PROFIT IN THE PAUT DURING CONVERSATIONAL INTERACTION OF ROSALTION RETRIEVAL  METHOD FOR USING PAUSES DETECTED IN SPECIAL PROFIT IN A CONVERSATIONAL INTERACTION SETEM FOR ACCOUNTERING PAUSES  METHOD AND SYSTEM FOR REAL TIME FEEDBACK IN AN INTERPRETATIONAL METHOD TO AND SYSTEM PAUSES  METHOD AND SYSTEM FOR REAL TIME FEEDBACK IN AN INDERSEMBLY AS SHEED IN PORMATION RETRIEVAL SYSTEM  METHOD SHOW SYSTEM FOR SEAL TIME FEEDBACK IN AN INDERSEMBLY AS S	Rovi Guides, Inc.	Rovi Guides, Inc.	Rovi Guides, Inc.	Rovi Guides, Inc.	Rovi Guides, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.	Veves, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.	Veves, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.	Veveo, Inc.
		Device and Query Management System	FREQUENCY PAIRING FOR DEVICE SYNCHRONIZATION	AUTOMATED QUERY DETECTION IN INTERACTIVE CONTENT	INAUDIBLE FREQUENCY TRANSMISSION IN INTERACTIVE CONTENT	METHODS AND SYSTEMS FOR RECOMMENDING CONCEPT CLUSTERS BASED ON AVAILABILITY			METHOD AND SYSTEM FOR CAPTURNIO, AND EXPLOTING USER INTENT IN A CONVERSATIONAL INTERACTION BASED INFORMATION RETRIEVAL SYSTEM	METHOD AND SYSTEM FOR CAPTURING AND EXPLOTING USER INTENT IN A CONJERSATIONAL INTERACTION BASED INFORMATION RETRIEVAL SYSTEM	METHOD FOR ADAPTIVE CONVERSATION STATE MANAGEMENT WITH FILTERING OPERATORS APPLIED DYNAMICALLY AS PART OF A CONVERSATIONAL INTERFACE	METHOD FOR ADAPTIVE CONVERSATION STATE MANAGEMENT WITH FILTERING OPERATORS APPLIED DYNAMICALLY AS PART OF A CONVERSATIONAL INTERFACE	METHOD FOR USING PAUSES DETECTED IN SPEECH INPUT TO ASSIST IN INTERPRETING THE INPUT DURING CONVERSATIONAL INTERACTION FOR INFORMATION RETRIEVAL			DISAMBIGUATING USER INTENT IN CONVERSATIONAL INTERACTION SYSTEM FOR LARGE CORPUS INFORMATION RETRIEVAL	DISAMBIQUATINO USER INTENT IN CONVERSATIONAL INTERACTION SYSTEM FOR LARGE COSPUS INFORMATION RETRIEVAL	METHOD OF AND SYSTEM FOR INFERRING USER INTENT IN SEARCH INDUT IN A CONVERSATIONAL INTERACTION SYSTEM	METHOD OF AND SYSTEM FOR INFERRING USER INTENTIN SEARCH INPUT IN A CONVERSATIONAL INTERACTION SYSTEM	METHOD OF AND SYSTEM FOR USING CONVERSATION STATE NECRMATION IN A CONVERSATIONAL INTERACTION SYSTEM	METHOD OF AND SYSTEM FOR USING CONVERSATION STATE INFORMATION IN A CONVERSATIONAL INTERACTION SYSTEM	METHOD OF AND SYSTEM FOR USING CONVERSATION STATE NEORMATION IN A CONVERSATIONAL INTERACTOR SYSTEM	METHOD OF AND SYSTEM FOR INFERRING USER INTENT IN SEARCH INPUT IN A COINCERSATIONAL INTERACTION SYSTEM	METHOD OF AND SYSTEM FOR ENHANCED LOCAL-DEVICE CONTENT DISCOVERY	METHOD OF AND SYSTEM FOR ENHANCED LOCAL-DEVICE CONTENT DISCOVERY

**RECORDED: 06/05/2020**