

Mobile Device Virtualization Patent Portfolio Offering

Quick Facts

- ≈ **Patent assets:** 49 issued US patents, 66 pending US applications
- ≈ **Earliest priority:** 1995-06-06
- ≈ **Continuation:** Yes
- ≈ **Technology:** Mobile Device Virtualization
- ≈ **Encumbrances:** none
- ≈ **Lifespan:** 15.7 years

Portfolio Overview

This patent portfolio anticipates the mobile device virtualization market. There are 115 assets in the portfolio, including 49 issued US patents, and 66 US patent applications.

The average remaining lifespan for the portfolio assets exceeds 15 years. So these patents will remain relevant to the market for many years to come.

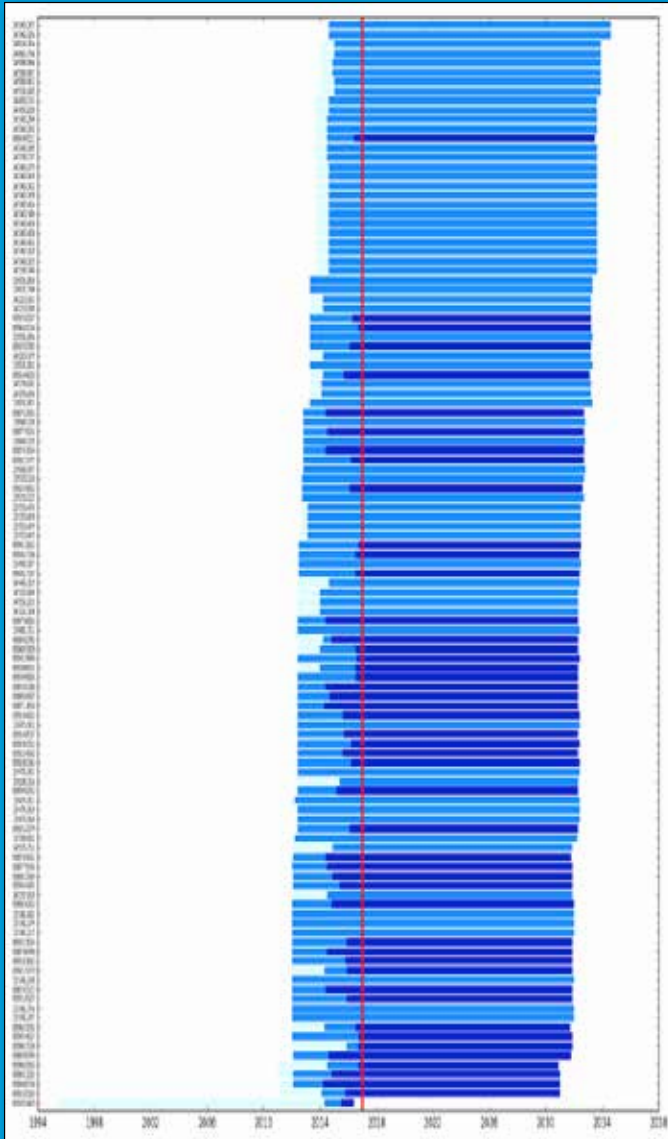
The 115 assets span three main categories of inventions:

1. Graphics virtualization
2. Mobile gestures virtualization
3. File system security

Within these three categories, the claims are deep and broad. For graphics virtualization, US9219779 claim 8 illustrates this point:

8. A method for receiving cloud-based cross-platform remote access to 3D graphics applications, the method comprising:
- a. Storing a client graphics library in memory, wherein the client graphics library is different from a graphics library hosted at a remote server;
 - b. Transmitting capability information regarding graphics capabilities of the client over a network to the remote server, the graphics capabilities comprising information regarding the client library;
 - c. Transmitting a request over the network to the remote server, wherein the server invokes a function responsive to the received request;
 - d. Receiving an encoded graphics call sent over the network from the remote server, wherein the received graphics call is encoded in accordance with the graphics capabilities of the client regarding the client library; and
 - e. Executing the encoded graphics call by reference to the client library, wherein the encoded graphics call is executable by a processor to perform the invoked function.

Lifespan:



Portfolio Overview (cont.)

Given the ever-increasing GPU capabilities of user devices – phones, laptops, game-players, smartwatches, etc. – claim 8 above will become ever more relevant. This is because its elements lean on the graphics library of the user (client) device to render the fast changing images.

Another trend is toward ever cheaper and leaner mobile devices communicating with powerful servers. In this arena, the mobile gestures virtualization category of patents lead the way, with US8745280 claim 1 as a prime example:

1. A method for translating motion-based user input between a client device and an application host computer, the method comprising:
 - a. Accessing, by a client device, an application being published by a host device, the host device supporting an I/O device of a first type and the client device supporting an I/O device of a different second type;
 - b. Transmitting, by the client device, an I/O command associated with motion-based user input on the I/O device of the second type to the host device;
 - c. Receiving, by the client device, an operation interpreted by the host device based on the I/O command associated with the motion-based user input, the interpretation based a table stored in memory associating each of a plurality of host operations with a corresponding client I/O command;
 - d. Rendering, on the client device, a display corresponding to the received interpreted operation.

With this claim, touchscreen gestures by users – e.g. pointing, swiping, pinching, etc. – are interpreted by the server. This dynamic enables the development of very cheap, practically disposable, client-side devices.

This claim, combined with the coming of wireless power (see, e.g., <http://www.ossia.com/>), will open the door toward 3D printed watches and phones. In other words, the mobile

Portfolio Overview (cont.)

gestures virtualization category is a key component of this future.

The third category of patents – file system security – facilitates protecting the information transmitted in this virtualized world. Claim 1 of US9165160 illustrates this functionality:

1. A method for controlling user access to directories and files of a computer, the method comprising:
 - a. Storing a plurality of file whitelists in memory, wherein each file whitelist identifies one or more users and one or more files accessible by the users;
 - b. Executing instructions stored in memory, wherein execution of the instructions by a processor:
 - i. Determines that an administrator has performed an act of publishing one or more previously unpublished files, wherein the act of publishing specifies that the previously unpublished files are to be published to one or more users, and
 - ii. Identifies which of the plurality of file whitelists are associated with the specified users;
 - c. Automatically adding, based on the act of publishing to the specified users, the previously unpublished files to one or more file whitelists identified as being associated with the specified users, wherein the identified file whitelists are updated with the previously unpublished files.

The forward citations chart for these patents supports their value. Beyond the raw number of forward citations, the identity of the parties with patents that cite this portfolio – including market leaders VMware, Citrix, and Microsoft – indicates value.

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Exemplar Claims

US9219779, claim 8:

8. A method for receiving cloud-based cross-platform remote access to 3D graphics applications, the method comprising:

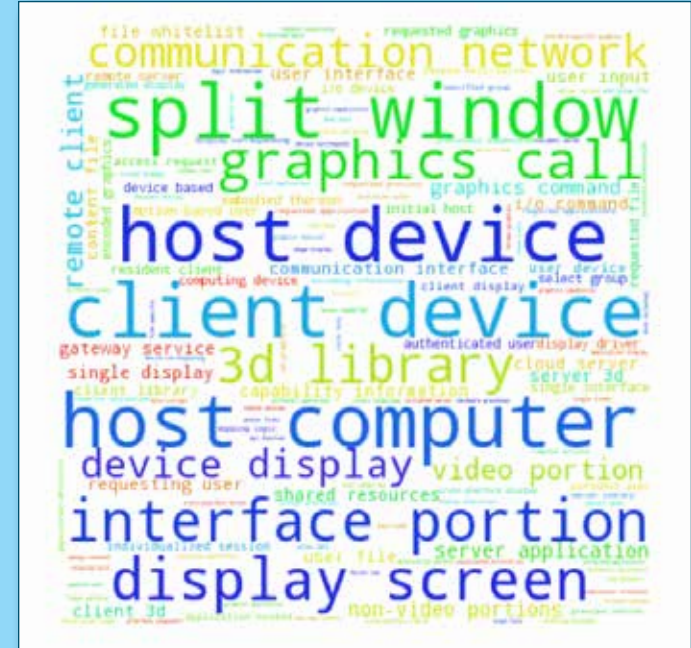
- a) Storing a client graphics library in memory, wherein the client graphics library is different from a graphics library hosted at a remote server;
- b) Transmitting capability information regarding graphics capabilities of the client over a network to the remote server, the graphics capabilities comprising information regarding the client library;
- c) Transmitting a request over the network to the remote server, wherein the server invokes a function responsive to the received request;
- d) Receiving an encoded graphics call sent over the network from the remote server, wherein the received graphics call is encoded in accordance with the graphics capabilities of the client regarding the client library; and
- e) Executing the encoded graphics call by reference to the client library, wherein the encoded graphics call is executable by a processor to perform the invoked function.

US8745280, claim 1:

1. A method for translating motion-based user input between a client device and an application host computer, the method comprising:

- a) Accessing, by a client device, an application being published by a host device, the host device supporting an I/O device of a first type and the client device supporting an I/O device of a different second type;
- b) Transmitting, by the client device, an I/O command associated with motion-based user input on the I/O device of the second type to the host device;
- c) Receiving, by the client device, an operation interpreted by the host device based on the I/O command associated with the motion-based user input, the interpretation based a table stored in memory associating each of a plurality of host operations with a corresponding client I/O command;
- d) Rendering, on the client device, a display corresponding to the received interpreted operation.

Claim Word Cloud



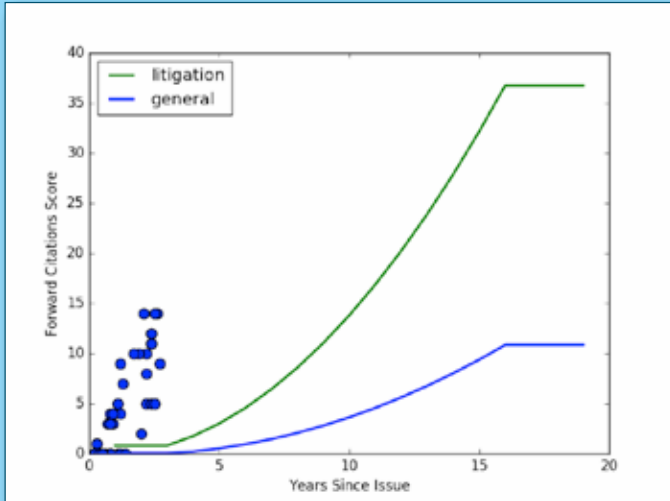
Exemplar Third Party Citations:

party	cites
Sprint	6
Citrix	3
Microsoft	3
Ericsson	3
VMware	2
IBM	2
Intuit	2

party	cites
Verizon	1
Nvidia	1
NEC	1
Lenovo	1
Facebook	1
Xiaomi	1

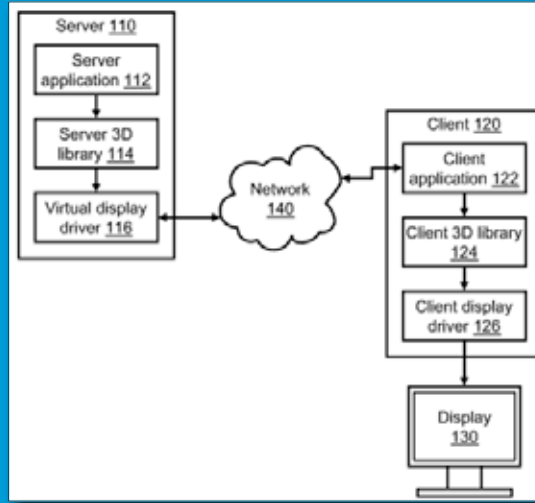


Forward Citations

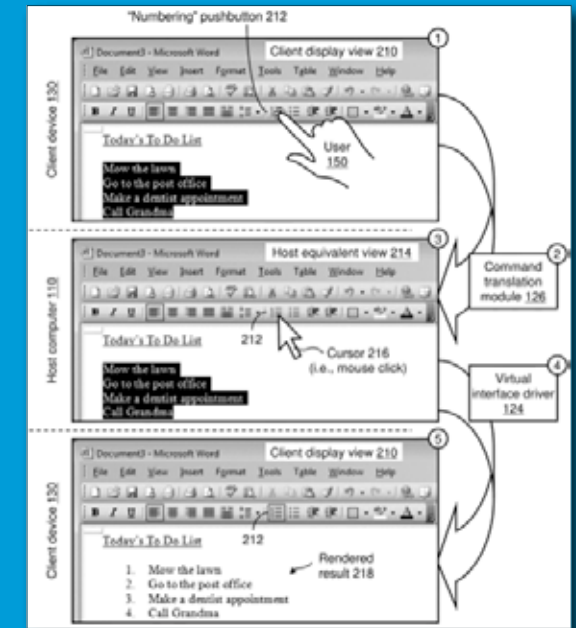


The graph compares forward citation scores of the patents in this portfolio (blue dots) against the scores for all US patents (blue line) and for litigated US patents (green line). Richardson and Oliver Law Group developed the scoring system.

Core Invention



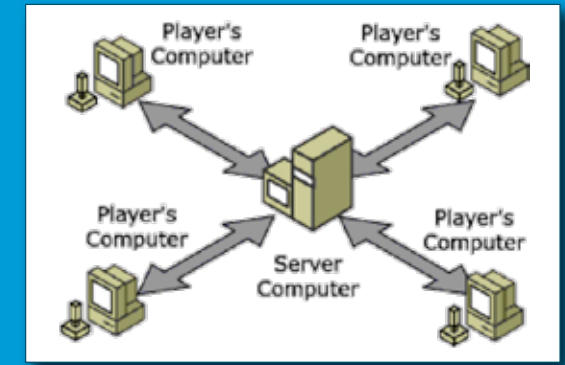
Core Invention



Covered Products



Covered Products



Forecast

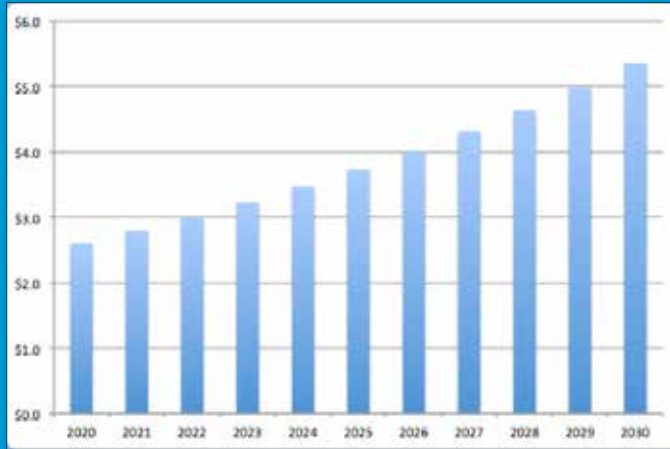


Chart of the data from the "Portfolio Market and Value" section.

Portfolio Market and Value

In a 2015 analysis, Research and Markets explained:

The global application virtualization market is expected to grow from USD 1.3 Billion in 2015 to USD 2.6 Billion by 2020, at an estimated Compound Annual Growth Rate (CAGR) of 14.9% from 2015 to 2020.

The key players of this market are Microsoft Corporation, Symantec Corporation, VMware, Inc., Citrix Systems, Inc., and Red Hat, Inc.

The peak years of this portfolio are roughly between 2020-2030 (see the lifespan chart).

Starting with the Research and Markets 2020 market estimate of \$2.6B, cutting the pre-2020 CAGR in half from 14.9% to 7.5% for post-2020, extending the estimate to 2030, and using a 50% worldwide share for the US, the total present value of the market today (using a 10% discount rate) is about **\$9 billion**.

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Asset List

Number	Online	Juris	Title	Status	Priority	Filed	Issued	App_number	RoI_score	Citations	Age
US9355429	US9355429	US	Client computing system for and method of receiving cross-platform remote access to 3D graphics applications	issued	1995-06-06	2014-04-21	2016-05-31	US 14/257,325	39.41	0	0.5
US8688734	US8688734	US	System for and methods of controlling user access and/or visibility to directories and files of a computer	issued	2011-02-04	2012-02-06	2014-04-01	US 13/367,239	70.54	9	2.7
US8863232	US8863232	US	System for and methods of controlling user access to applications and/or programs of a computer	issued	2011-02-04	2012-02-06	2014-10-14	US 13/367,228	71.29	14	2.1
US9165160	US9165160	US	System for and methods of controlling user access and/or visibility to directories and files of a computer	issued	2011-02-04	2014-02-10	2015-10-20	US 14/176,895	71.29	5	1.1
US9465955	US9465955	US	System for and methods of controlling user access to applications and/or programs of a computer	issued	2011-02-04	2014-07-16	2016-10-11	US 14/332,660	38.4	0	0.2
13/341,179		US	SYSTEM FOR AND METHOD OF PROVIDING CROSS-PLATFORM REMOTE ACCESS TO 3D GRAPHICS APPLICATIONS	application	2011-12-30	2011-12-30		US 13/341,179			
13/341,198		US	SYSTEM FOR AND METHOD OF TRANSLATING BETWEEN DISPARATE 3D GRAPHICS LANGUAGES IN CLIENT-SERVER COMPUTING ENVIRONMENTS	application	2011-12-30	2011-12-30		US 13/341,198			
13/341,207		US	SYSTEM FOR AND METHOD OF PROVIDING 3D GRAPHICS LANGUAGE-BASED PROTOCOL FOR REMOTE ACCESS COMMUNICATIONS	application	2011-12-30	2011-12-30		US 13/341,207			
13/341,215		US	AUTOMATIC ADJUSTMENT FOR CROSS-PLATFORM DISPLAY	application	2011-12-30	2011-12-30		US 13/341,215			
13/341,432		US	CLIENT RENDERING	application	2011-12-30	2011-12-30		US 13/341,432			
13/341,754		US	CLOUD-BASED AUTOMATIC ADJUSTMENT FOR CROSS-PLATFORM DISPLAY	application	2011-12-30	2011-12-30		US 13/341,754			
14/337,659		US	CLOUD-BASED IMAGE HOSTING	application	2011-12-30	2014-07-22		US 14/337,659			
14/575,751		US	CLOUD BASED SYSTEM FOR AND METHOD OF TRANSLATING BETWEEN DISPARATE 3D GRAPHICS LANGUAGES IN CLIENT-SERVER COMPUTING ENVIRONMENTS	application	2011-12-30	2014-12-18		US 14/575,751			



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Asset List (cont.)

Number	Online	Juris	Title	Status	Priority	Filed	Issued	App_number	RoI_score	Citations	Age
US8745173	US8745173	US	Client computing system for and method of receiving cross-platform remote access to 3D graphics applications	issued	2011-12-30	2011-12-30	2014-06-03	US 13/341,086	63.89	5	2.5
US8766990	US8766990	US	Server computing system for and method of providing cross-platform remote access to 3D graphics applications	issued	2011-12-30	2011-12-30	2014-07-01	US 13/341,570	65.49	5	2.4
US8769052	US8769052	US	Cloud-based server computing system for and method of providing cross-platform remote access to 3D graphics applications	issued	2011-12-30	2012-02-17	2014-07-01	US 13/399,764	64.95	5	2.4
US8775545	US8775545	US	Image hosting for cross-platform display over a communication network	issued	2011-12-30	2011-12-30	2014-07-08	US 13/341,238	56.44	12	2.4
US8838749	US8838749	US	Cloud based client computing system for and method of receiving cross-platform remote access to 3D graphics applications	issued	2011-12-30	2012-02-17	2014-09-16	US 13/399,738	74.09	5	2.2
US8856262	US8856262	US	Cloud-based image hosting	issued	2011-12-30	2011-12-30	2014-10-07	US 13/341,760	56.48	10	2.2
US8922569	US8922569	US	Cloud based system for and method of translating between disparate 3D graphics languages in client-server computing environments	issued	2011-12-30	2012-02-17	2014-12-30	US 13/399,806	57.06	10	1.9
US9064292	US9064292	US	System for and method of classifying and translating graphics commands in client-server computing systems	issued	2011-12-30	2012-02-17	2015-06-23	US 13/399,793	33.57	0	1.4
US9183663	US9183663	US	System for and method of classifying and translating graphics commands in client-server computing systems	issued	2011-12-30	2011-12-30	2015-11-10	US 13/341,110	33.23	0	1.1
US9218107	US9218107	US	Cloud-based text management for cross-platform display	issued	2011-12-30	2011-12-30	2015-12-22	US 13/341,750	58.43	4	0.9
US9219779	US9219779	US	Cloud-based server computing system for and method of providing cross-platform remote access to 3D graphics applications	issued	2011-12-30	2014-05-13	2015-12-22	US 14/276,248	67.02	3	0.9
US9223534	US9223534	US	Client side detection of motion vectors for cross-platform display	issued	2011-12-30	2011-12-30	2015-12-29	US 13/341,232	53.77	4	0.9
US9437032	US9437032	US	Server computing system for and method of providing cross-platform remote access to 3D graphics applications	issued	2011-12-30	2014-05-13	2016-09-06	US 14/276,179	48.14	0	0.2



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Asset List (cont.)

Number	Online	Juris	Title	Status	Priority	Filed	Issued	App_number	RoI_score	Citations	Age
US9454617	US9454617	US	Client rendering	issued	2011-12-30	2011-12-30	2016-09-27	US 13/341,425	32.55	0	0.2
US9467534	US9467534	US	Cloud-based server computing system for and method of providing cross-platform remote access to 3D graphics applications	issued	2011-12-30	2015-12-10	2016-10-11	US 14/965,871	42.53	0	0.2
13/399,852		US	CLOUD BASED SYSTEM FOR AND METHOD OF PROVIDING CROSS-PLATFORM REMOTE ACCESS TO 3D GRAPHICS APPLICATIONS	application	2012-02-17	2012-02-17		US 13/399,852			
13/475,911		US	CLOUD-BASED SYSTEM FOR AND METHOD OF PROVIDING 3D GRAPHICS LANGUAGE-BASED PROTOCOL FOR REMOTE ACCESS COMMUNICATIONS	application	2012-05-18	2012-02-17		US 13/475,911			
13/475,914		US	CLOUD-BASED FACILITATING RESPONSIVE SCROLLING FOR CROSS-PLATFORM DISPLAY	application	2012-05-18	2012-05-18		US 13/475,914			
13/475,919		US	PERSONAL CLOUD	application	2012-05-18	2012-05-18		US 13/475,919			
13/475,921		US	AUTOMATIC DATA INPUT DISCOVERY FOR CROSS-PLATFORM DISPLAY	application	2012-05-18	2012-05-18		US 13/475,921			
13/475,922		US	AUTOMATIC DATA INPUT DISCOVERY FOR CROSS-PLATFORM DISPLAY	application	2012-05-18	2012-05-18		US 13/475,922			
15/008,314		US	AUTOMATIC MAPPING FOR CROSS-PLATFORM DISPLAY	application	2012-05-18	2015-05-19		US 15/008,314			
US8990363	US8990363	US	Decomposition and recomposition for cross-platform display	issued	2012-05-18	2012-05-18	2015-03-24	US 13/475,917	55.61	10	1.7
US9106612	US9106612	US	Decomposition and recomposition for cross-platform display	issued	2012-05-18	2012-05-18	2015-08-11	US 13/475,916	57.52	7	1.3
US9124562	US9124562	US	Cloud-based decomposition and recomposition for cross-platform display	issued	2012-05-18	2012-05-18	2015-09-01	US 13/475,918	55.75	9	1.2
US9148537	US9148537	US	Facial cues as commands	issued	2012-05-18	2012-05-18	2015-09-29	US 13/475,926	62.57	4	1.2
US9262179	US9262179	US	Automatic mapping for cross-platform display	issued	2012-05-18	2012-05-18	2016-02-16	US 13/475,924	31.38	0	0.8
US9280353	US9280353	US	Cloud-based automatic mapping for cross-platform display	issued	2012-05-18	2012-05-18	2016-03-08	US 13/475,925	31.7	0	0.8
US9280363	US9280363	US	Automatic mapping for cross-platform display	issued	2012-05-18	2012-05-18	2016-03-08	US 13/475,923	31.36	0	0.8



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Number	Online	Juris	Title	Status	Priority	Filed	Issued	App_number	RoI_score	Citations	Age
13/481,751		US	SYSTEM FOR AND METHOD OF TRANSLATING MOTION-BASED USER INPUT BETWEEN A CLIENT DEVICE AND AN APPLICATION HOST COMPUTER	application	2012-05-25	2012-05-25		US 13/481,751			
14/150,684		US	SYSTEM FOR AND METHOD OF PROVIDING SINGLE SIGN-ON (SSO) CAPABILITY IN AN APPLICATION PUBLISHING ENVIRONMENT	application	2012-05-25	2014-01-08		US 14/150,684			
14/151,222		US	SYSTEM FOR AND METHOD OF PROVIDING SINGLE SIGN-ON (SSO) CAPABILITY IN AN APPLICATION PUBLISHING ENVIRONMENT	application	2012-05-25	2014-01-09		US 14/151,222			
14/152,306		US	SYSTEM FOR AND METHOD OF PROVIDING SINGLE SIGN-ON (SSO) CAPABILITY IN AN APPLICATION PUBLISHING ENVIRONMENT	application	2012-05-25	2014-01-10		US 14/152,306			
14/445,319		US	SYSTEM FOR AND METHODS OF PROVIDING SINGLE SIGN-ON (SSO) CAPABILITY IN AN APPLICATION PUBLISHING AND/OR DOCUMENT SHARING ENVIRONMENT	application	2012-05-25	2014-07-29		US 14/445,319			
US8713658	US8713658	US	System for and method of providing single sign-on (SSO) capability in an application publishing environment	issued	2012-05-25	2012-05-25	2014-04-29	US 13/481,742	63.24	14	2.6
US8738814	US8738814	US	System for and method of translating motion-based user input between a client device and an application host computer	issued	2012-05-25	2012-05-25	2014-05-27	US 13/481,750	64.29	14	2.5
US8745280	US8745280	US	System for and method of translating motion-based user input between a client device and an application host computer	issued	2012-05-25	2012-05-25	2014-06-03	US 13/481,749	63.87	5	2.5
US8856907	US8856907	US	System for and methods of providing single sign-on (SSO) capability in an application publishing and/or document sharing environment	issued	2012-05-25	2012-05-25	2014-10-07	US 13/481,752	53.89	8	2.2
US8892782	US8892782	US	System for and method of translating motion-based user input between a client device and an application host computer	issued	2012-05-25	2014-04-09	2014-11-18	US 14/248,505	64.29	2	2

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Number	Online	Juris	Title	Status	Priority	Filed	Issued	App_number	RoI_score	Citations	Age
US9395826	US9395826	US	System for and method of translating motion-based user input between a client device and an application host computer	issued	2012-05-25	2012-05-25	2016-07-19	US 13/481,748	31.88	0	0.3
US9398001	US9398001	US	System for and method of providing single sign-on (SSO) capability in an application publishing environment	issued	2012-05-25	2014-01-10	2016-07-19	US 14/152,303	66.35	1	0.3
US9401909	US9401909	US	System for and method of providing single sign-on (SSO) capability in an application publishing environment	issued	2012-05-25	2014-01-08	2016-07-26	US 14/150,680	69.99	1	0.3
US9419848	US9419848	US	System for and method of providing a document sharing service in combination with remote access to document applications	issued	2012-05-25	2012-05-25	2016-08-16	US 13/481,746	35.21	0	0.2
13/490,327		US	SYSTEM FOR AND METHOD OF PROCESSING USER INTERFACE GRAPHICS BETWEEN A CLIENT DEVICE AND AN APPLICATION HOST COMPUTER	application	2012-06-06	2012-06-06		US 13/490,327			
US9367336	US9367336	US	Personalization of shared resources	issued	2012-06-06	2012-06-06	2016-06-14	US 13/490,333	31.59	0	0.4
US9367337	US9367337	US	Cloud-based personalization of shared resources	issued	2012-06-06	2012-06-06	2016-06-14	US 13/490,336	31.59	0	0.4
US9411615	US9411615	US	Personalization of shared resources	issued	2012-06-06	2012-06-06	2016-08-09	US 13/490,331	31.43	0	0.3
13/753,475		US	SYSTEM FOR AND METHOD OF CROSS-PLATFORM USER NOTIFICATION IN AN APPLICATION PUBLISHING ENVIRONMENT	application	2012-07-19	2013-01-29		US 13/753,475			
13/753,476		US	SYSTEM FOR AND METHOD OF CROSS-PLATFORM USER NOTIFICATION IN AN APPLICATION PUBLISHING ENVIRONMENT	application	2012-07-19	2013-01-29		US 13/753,476			
13/753,478		US	SYSTEM FOR AND METHOD OF RENDERING REMOTE APPLICATIONS ON A CLIENT DEVICE IN AN APPLICATION PUBLISHING ENVIRONMENT	application	2012-07-19	2013-01-29		US 13/753,478			
13/753,479		US	SYSTEM FOR AND METHOD OF RENDERING REMOTE APPLICATIONS ON A CLIENT DEVICE IN AN APPLICATION PUBLISHING ENVIRONMENT	application	2012-07-19	2013-01-29		US 13/753,479			
13/570,110		US	CLOUD-BASED PERSONALIZATION OF SHARED RESOURCES	application	2012-08-08	2012-08-08		US 13/570,110			



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Number	Online	Juris	Title	Status	Priority	Filed	Issued	App_number	RoI_score	Citations	Age
13/570,115		US	SYSTEM FOR AND METHOD OF PROVIDING ALTERNATING DESKTOP VIEWS ON A CLIENT DEVICE IN A CLOUD-BASED APPLICATION PUBLISHING ENVIRONMENT	application	2012-08-08	2012-08-08		US 13/570,115			
US9239812	US9239812	US	System for and method of providing a universal I/O command translation framework in an application publishing environment	issued	2012-08-08	2012-08-08	2016-01-19	US 13/570,106	56.38	4	0.8
13/668,097		US	SYSTEM FOR AND METHODS OF PROVIDING BIDIRECTIONAL COMMUNICATION BETWEEN A WEB APPLICATION AND AN APPLICATION HOSTED IN AN APPLICATION PUBLISHING ENVIRONMENT	application	2012-11-02	2012-11-02		US 13/668,097			
13/668,100		US	CLIENT COMPUTING SYSTEM IN A CLIENT-SERVER COMPUTING ENVIRONMENT FOR PROVIDING BIDIRECTIONAL COMMUNICATION BETWEEN A WEB APPLICATION AND A HOSTED APPLICATION	application	2012-11-02	2012-11-02		US 13/668,100			
13/668,105		US	SERVER COMPUTING SYSTEM IN A CLIENT-SERVER COMPUTING ENVIRONMENT FOR PROVIDING BIDIRECTIONAL COMMUNICATION BETWEEN A HOSTED APPLICATION AND A WEB APPLICATION	application	2012-11-02	2012-11-02		US 13/668,105			
US8763054	US8763054	US	Cross-platform video display	issued	2012-11-02	2012-11-02	2014-06-24	US 13/668,091	52.83	12	2.4
US8763055	US8763055	US	Cross-platform video display	issued	2012-11-02	2012-11-06	2014-06-24	US 13/670,163	52.83	11	2.4
US8776152	US8776152	US	Cloud-based cross-platform video display	issued	2012-11-02	2012-11-02	2014-07-08	US 13/668,095	52.4	11	2.4
US9323777	US9323777	US	Distributed file-sharing across personal devices	issued	2012-11-02	2012-11-02	2016-04-26	US 13/668,088	27.47	0	0.6
13/831,798		US	REMOTE VIEWING USING MULTIPLE HOSTS	application	2013-03-15	2013-03-15		US 13/831,798			
13/831,800		US	CLOUD-BASED REMOTE VIEWING USING MULTIPLE HOSTS	application	2013-03-15	2013-03-15		US 13/831,800			
13/831,802		US	AGGREGATED SEARCH	application	2013-03-15	2013-03-15		US 13/831,802			
13/831,806		US	AGGREGATED SEARCH	application	2013-03-15	2013-03-15		US 13/831,806			
13/831,807		US	CLOUD-BASED AGGREGATED SEARCH	application	2013-03-15	2013-03-15		US 13/831,807			



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Asset List (cont.)

Number	Online	Juris	Title	Status	Priority	Filed	Issued	App_number	RoI_score	Citations	Age
14/179,690		US	SYSTEM FOR AND METHOD OF DETERMINING GESTURE COMPATABILITY BETWEEN TOUCH-BASED DEVICES IN A REMOTE ACCESS ENVIRONMENT	application	2013-03-15	2014-02-13		US 14/179,690			
14/179,691		US	SYSTEM FOR AND METHOD OF TRANSLATING HOST USER INTERFACE (UI) COMPONENTS TO CLIENT UI COMPONENTS IN A REMOTE ACCESS ENVIRONMENT	application	2013-03-15	2014-02-13		US 14/179,691			
14/213,563		US	APPLICATION FINDER	application	2013-03-15	2014-03-14		US 14/213,563			
14/213,579		US	KEYBOARD SHORTCUTS ON REMOTE DEVICES	application	2013-03-15	2014-03-14		US 14/213,579			
14/213,589		US	KEYBOARD INTELLIGENCE FOR REMOTE APPLICATIONS	application	2013-03-15	2014-03-14		US 14/213,589			
US9146633	US9146633	US	Touch-based hovering on remote devices	issued	2013-03-15	2014-03-14	2015-09-29	US 14/213,574	37.59	0	1.2
US9250782	US9250782	US	Using split windows for cross-platform document views	issued	2013-03-15	2013-03-15	2016-02-02	US 13/831,782	51.93	3	0.8
US9292157	US9292157	US	Cloud-based usage of split windows for cross-platform document views	issued	2013-03-15	2013-03-15	2016-03-22	US 13/831,786	49.91	3	0.7
US9430134	US9430134	US	Using split windows for cross-platform document views	issued	2013-03-15	2013-03-15	2016-08-30	US 13/831,783	29.48	0	0.2
14/339,140		US	ACCURATE POSITIONING IN REMOTE FILES	application	2013-08-12	2014-07-23		US 14/339,140			
14/340,302		US	MANAGING OPTION DISPLAYS FOR MENU FORMATS	application	2013-08-21	2014-07-24		US 14/340,302			
14/340,309		US	DISPLAY OF REMOTELY-HOSTED SPREADSHEETS	application	2013-08-21	2014-07-24		US 14/340,309			
14/340,318		US	CELL SELECTION IN REMOTE DISPLAY OF SPREADSHEETS	application	2013-08-21	2014-07-24		US 14/340,318			
14/340,325		US	FROZEN PANES IN REMOTE SPREADSHEETS	application	2013-08-21	2014-07-24		US 14/340,325			
14/340,349		US	PIXEL SCROLLING	application	2013-08-21	2014-07-24		US 14/340,349			
14/340,379		US	SWITCHING BETWEEN LIVE VIEW AND STATIC VIEW	application	2013-08-21	2014-07-24		US 14/340,379			
14/340,400		US	CONTEXT-SENSITIVE MENU FOR REMOTELY-HOSTED FILES	application	2013-08-21	2014-07-24		US 14/340,400			
14/340,402		US	HEADER MANAGEMENT IN REMOTE DISPLAY OF SPREADSHEETS	application	2013-08-21	2014-07-24		US 14/340,402			
14/340,409		US	CELL EDITING IN REMOTE DISPLAY OF SPREADSHEETS	application	2013-08-21	2014-07-24		US 14/340,409			



Mobile Device Virtualization

Patent Portfolio Offering



Asset List (cont.)

Number	Online	Juris	Title	Status	Priority	Filed	Issued	App_number	RoI_score	Citations	Age
14/340,416		US	SLIDER BAR FOR DECIMAL POINTS	application	2013-08-21	2014-07-24		US 14/340,416			
14/340,428		US	IMAGE DATABASE FOR REMOTE DISPLAY	application	2013-08-21	2014-07-24		US 14/340,428			
14/339,137		US	HYBRID LIVE AND STATIC PROTOCOLS	application	2013-08-30	2014-07-23		US 14/339,137			
14/340,299		US	INTELLIGENT RESOLUTION SELECTION	application	2013-08-30	2014-07-24		US 14/340,299			
14/340,385		US	FILE FILTERING FOR REMOTE DISPLAY	application	2013-08-30	2014-07-24		US 14/340,385			
14/340,392		US	AUTOMATION COMMANDS FOR SMOOTH SCROLLING	application	2013-08-30	2014-07-24		US 14/340,392			
US9398111	US9398111	US	File caching upon disconnection	issued	2013-08-30	2014-07-29	2016-07-19	US 14/445,320	38.99	0	0.3
14/458,133		US	DEVICE-SPECIFIC REMOTE PHOTO VIEWING	application	2013-09-10	2014-08-12		US 14/458,133			
14/459,228		US	MAINTAINING A CLIENT STATE UPON DISCONNECTION	application	2013-09-10	2014-08-13		US 14/459,228			
14/588,886		US	MENU DISPLAY SELECTION BASED ON GESTURES	application	2014-01-03	2015-01-02		US 14/588,886			
14/588,887		US	ACCOUNT-SPECIFIC LOGIN THROTTLING	application	2014-01-03	2015-01-02		US 14/588,887			
14/589,862		US	INTERNET CONNECTIVITY MANAGEMENT	application	2014-01-03	2015-01-05		US 14/589,862			
14/614,364		US	SYSTEM FOR AND METHOD OF CLASSIFYING AND TRANSLATING GRAPHICS COMMANDS IN CLIENT-SERVER COMPUTING SYSTEMS	application	2014-01-03	2015-01-05		US 14/614,364			
14/865,766		US	TOUCH-BASED HOVERING ON REMOTE DEVICES	application	2014-01-03	2015-01-05		US 14/865,766			
14/931,685		US	SYSTEM FOR AND METHOD OF CLASSIFYING AND TRANSLATING GRAPHICS COMMANDS IN CLIENT-SERVER COMPUTING SYSTEMS	application	2014-01-03	2015-01-05		US 14/931,685			
14/340,307		US	HOST-AWARE NEW FILE CREATION	application	2014-07-24	2014-07-24		US 14/340,307			
14/340,320		US	SUPERIMPOSING IMAGES FOR REMOTE DISPLAY	application	2014-07-24	2014-07-24		US 14/340,320			





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