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Patel

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(54) **METHOD AND SYSTEM FOR PRESENTING REPRESENTATIONS OF PAYMENT ACCEPTING UNIT EVENTS**

(56) **References Cited**

U.S. PATENT DOCUMENTS

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5,479,602 A 12/1995 Baecker et al.

5,844,808 A 12/1998 Konsmo et al.

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(Continued)

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FOREIGN PATENT DOCUMENTS

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CN 105139196 A 12/2015

EP 1571607 A2 9/2005

(Continued)

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OTHER PUBLICATIONS

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Hoffman et al., "New options in Wireless payments", Internet World 7.7:37 Penton Media Inc., Penton Business Media, Inc. and their subsidiaries . (Year: 2001).*

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(63) Continuation of application No. 17/147,305, filed on Jan. 12, 2021, which is a continuation of application (Continued)

(57) **ABSTRACT**

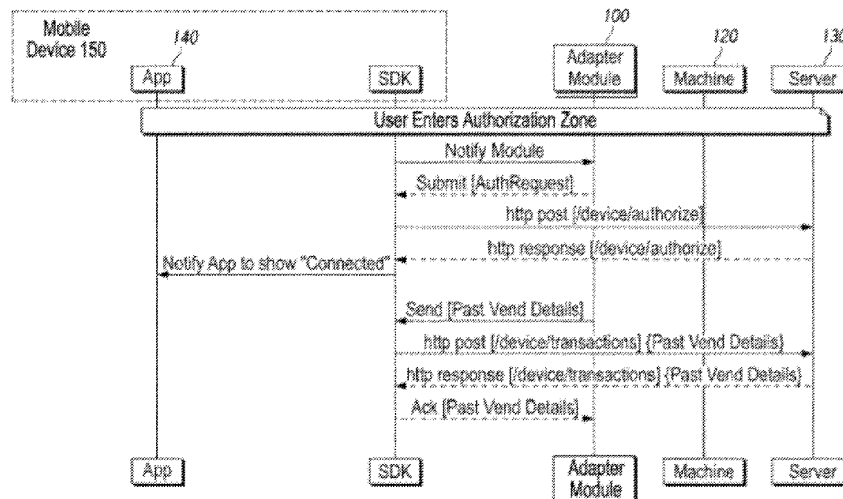
A mobile device presents representations of payment accepting unit events on a display, by identifying a payment accepting unit that is available to accept payment from a mobile payment application executing on the mobile device, displaying a visual indication of the payment accepting unit and accepting user input to receive selection of the payment accepting unit and trigger payment, establishing a wireless communication path including the mobile device and the payment accepting unit, enabling user interaction with the user interface to complete the transaction, exchanging information with the available payment accepting unit via the one or more radio transceivers in conjunction with the transaction, and displaying an updated user interface of the mobile payment application.

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G06Q 20/32 (2012.01)
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CPC **G06Q 20/40** (2013.01); **G06Q 20/18** (2013.01); **G06Q 20/322** (2013.01);
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(58) **Field of Classification Search**
CPC G06Q 20/40; G06Q 20/18; G06Q 20/322; G06Q 20/3226; G06Q 20/327; G06Q 20/3278; G07F 7/0893; G07F 9/023
(Continued)

20 Claims, 45 Drawing Sheets



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(58) Field of Classification Search

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See application file for complete search history.

(56)

References Cited**U.S. PATENT DOCUMENTS**

5,880,733 A 3/1999 Horvitz et al.
5,892,900 A 4/1999 Ginter et al.
5,955,718 A 9/1999 Levasseur
6,056,194 A 5/2000 Kolls
6,390,269 B1 5/2002 Billington
6,462,644 B1 10/2002 Howell
6,505,095 B1 1/2003 Kolls
6,584,309 B1 6/2003 Whigham
6,743,095 B2 6/2004 Cole et al.
6,793,134 B2 9/2004 Clark
6,810,234 B1 10/2004 Rasanen
7,085,556 B2 8/2006 Offer
7,110,954 B2 9/2006 Yung et al.
7,127,236 B2 10/2006 Khan
7,131,575 B1 11/2006 Kolls
7,455,223 B1 11/2008 Wilson
7,458,510 B1 12/2008 Zhou
7,464,867 B1 12/2008 Kolls
7,672,680 B1 3/2010 Lee et al.
7,690,495 B1 4/2010 Kolls
7,721,958 B2 5/2010 Belfer et al.
7,848,980 B2 12/2010 Carlson
7,962,369 B2 6/2011 Rosenberg
7,983,670 B1 7/2011 Elliott
8,020,763 B1 9/2011 Kowalchuk
8,059,101 B2 11/2011 Westerman
D669,899 S 10/2012 Cheng et al.
8,346,670 B2 1/2013 Hasson et al.
8,356,754 B2 1/2013 Johnson et al.
8,376,227 B2 2/2013 Hammad et al.
8,396,589 B2 3/2013 Katzenstein Garibaldi
8,412,626 B2 4/2013 Hirson et al.
8,438,066 B1 5/2013 Yuen
8,479,190 B2 7/2013 Sueyoshi et al.
8,489,140 B2 7/2013 Weiner et al.
8,517,766 B2 8/2013 Golko et al.
8,548,426 B2 10/2013 Smith
8,577,734 B2 11/2013 Treyz
8,583,496 B2 11/2013 You et al.
8,596,528 B2 12/2013 Fernandes et al.

8,596,529 B1 12/2013 Kolls
8,600,899 B1 12/2013 Davis
8,606,702 B2 12/2013 Ruckart
8,615,445 B2 12/2013 Dorsey et al.
8,645,971 B2 2/2014 Carlson et al.
8,700,530 B2 4/2014 Smith
8,707,276 B2 4/2014 Hill et al.
8,712,893 B1 4/2014 Brandmaier
8,761,809 B2 6/2014 Faith et al.
8,769,643 B1 7/2014 Ben Ayed
8,788,341 B1 7/2014 Patel
8,794,734 B2 8/2014 Drummond
8,810,430 B2 8/2014 Proud
8,819,659 B2 8/2014 Ramer et al.
8,838,481 B2 9/2014 Moshfeghi
8,850,421 B2 9/2014 Proud
8,856,045 B1 10/2014 Patel et al.
8,881,975 B1 11/2014 Matthews
8,898,620 B2 11/2014 Eizenman et al.
8,903,737 B2 12/2014 Cameron et al.
9,001,047 B2 4/2015 Forstall
9,037,492 B2 5/2015 White
9,092,768 B2 7/2015 Breitenbach et al.
9,210,247 B2 12/2015 Vance et al.
9,262,771 B1 2/2016 Patel
9,395,888 B2 7/2016 Schiplacoff et al.
9,424,603 B2 8/2016 Hammad
9,483,763 B2 11/2016 Van Os
9,547,859 B2 1/2017 Patel
9,875,473 B2 1/2018 Patel
9,898,884 B1 2/2018 Arora et al.
10,163,292 B1 12/2018 Romero
10,210,501 B2 2/2019 Low et al.
10,304,057 B1 5/2019 Powell
10,380,573 B2 * 8/2019 Lin G06Q 20/3278
10,423,949 B2 9/2019 Lyons et al.
10,824,828 B2 11/2020 Ostri
10,977,642 B2 4/2021 Khan
11,074,577 B1 * 7/2021 Socorsy G06Q 20/385
11,227,275 B2 * 1/2022 Van Heerden G06Q 20/383
2002/0016740 A1 2/2002 Ogasawara
2002/0164953 A1 11/2002 Curtis
2003/0089767 A1 5/2003 Kiyomatsu
2003/0110097 A1 6/2003 Lei
2003/0130902 A1 7/2003 Athwal
2003/0158891 A1 8/2003 Lei et al.
2003/0191811 A1 10/2003 Hashem
2003/0206542 A1 11/2003 Holder
2003/0236872 A1 12/2003 Atkinson
2004/0049454 A1 3/2004 Kanno et al.
2004/0117262 A1 6/2004 Berger et al.
2004/0122685 A1 * 6/2004 Bunce G06Q 20/04
705/325
2004/0133653 A1 7/2004 Defosse
2005/0043011 A1 2/2005 Murray
2005/0080510 A1 4/2005 Bates
2005/0101295 A1 5/2005 Rupp
2005/0177798 A1 8/2005 Thomson et al.
2005/0181804 A1 8/2005 Misikangas et al.
2005/0232421 A1 10/2005 Simons et al.
2005/0234776 A1 10/2005 Jacoves
2006/0052157 A1 3/2006 Walker et al.
2006/0123335 A1 6/2006 Sanchez et al.
2007/0050083 A1 3/2007 Signorelli et al.
2007/0186105 A1 8/2007 Bailey
2007/0187491 A1 8/2007 Godwin et al.
2007/0227856 A1 10/2007 Gopel
2007/0255653 A1 11/2007 Tumminaro
2008/0010193 A1 * 1/2008 Rackley, III G06Q 20/325
705/39
2008/0033880 A1 2/2008 Fiebigler et al.
2008/0040265 A1 * 2/2008 Rackley, III G06Q 20/102
705/40
2008/0126213 A1 5/2008 Robertson et al.
2008/0141033 A1 6/2008 Ginter et al.
2008/0154727 A1 6/2008 Carlson
2008/0154735 A1 6/2008 Carlson
2008/0163257 A1 7/2008 Carlson et al.
2008/0167017 A1 7/2008 Wentker et al.

(56)

References Cited

U.S. PATENT DOCUMENTS

2008/0167991 A1	7/2008	Carlson et al.	2013/0117490 A1	5/2013	Harriman
2008/0183480 A1	7/2008	Carlson et al.	2013/0117738 A1	5/2013	Livingston et al.
2008/0201226 A1	8/2008	Carlson et al.	2013/0124289 A1	5/2013	Fisher
2008/0208762 A1	8/2008	Arthur et al.	2013/0126607 A1	5/2013	Behjat
2008/0249658 A1	10/2008	Walker	2013/0143498 A1	6/2013	Niemi
2008/0254853 A1	10/2008	Wright et al.	2013/0166448 A1	6/2013	Narayanan
2008/0255947 A1	10/2008	Friedman	2013/0185150 A1	7/2013	Crum
2008/0319913 A1	12/2008	Wiechers	2013/0191789 A1	7/2013	Calman
2009/0037284 A1	2/2009	Lewis et al.	2013/0217333 A1	8/2013	Sprigg et al.
2009/0076896 A1	3/2009	Dewitt	2013/0246171 A1	9/2013	Carapelli
2009/0099961 A1	4/2009	Ogilvy	2013/0246364 A1	9/2013	Bhavith
2009/0106160 A1	4/2009	Skowronek	2013/0267121 A1	10/2013	Hsu
2009/0119190 A1	5/2009	Realini	2013/0267176 A1	10/2013	Hertel et al.
2009/0171682 A1	7/2009	Dixon et al.	2013/0275303 A1	10/2013	Fiore
2009/0306818 A1	12/2009	Slagley et al.	2013/0275305 A1	10/2013	Duplan
2009/0306819 A1	12/2009	Insolia	2013/0278622 A1	10/2013	Sun et al.
2009/0313132 A1	12/2009	Kenna et al.	2013/0282590 A1 *	10/2013	Rajarethnam G06Q 20/3276
2009/0327089 A1	12/2009	Kanno et al.			705/71
2010/0061294 A1	3/2010	Proctor, Jr.	2013/0297422 A1	11/2013	Hunter et al.
2010/0094456 A1	4/2010	Simpkins et al.	2013/0311379 A1	11/2013	Smith
2010/0198400 A1	8/2010	Pascal	2013/0311382 A1	11/2013	Fosmark et al.
2010/0276484 A1	11/2010	Banerjee	2013/0331985 A1	12/2013	Felique
2010/0280956 A1	11/2010	Chutorash	2013/0332293 A1	12/2013	Ran
2010/0312692 A1	12/2010	Teicher	2013/0346305 A1	12/2013	Mendes
2010/0320266 A1	12/2010	White	2014/0019367 A1	1/2014	Khan et al.
2010/0329285 A1	12/2010	Stanton	2014/0025958 A1	1/2014	Calman
2011/0029405 A1	2/2011	Cronin	2014/0032413 A1	1/2014	Low
2011/0040686 A1	2/2011	Carlson	2014/0040028 A1	2/2014	King et al.
2011/0125561 A1	5/2011	Marcus	2014/0040117 A1	2/2014	Jain
2011/0153436 A1	6/2011	Krampe	2014/0052524 A1	2/2014	Andersen
2011/0153442 A1	6/2011	Krampe	2014/0064116 A1	3/2014	Linde et al.
2011/0172848 A1	7/2011	Breitenbach et al.	2014/0067542 A1	3/2014	Everingham
2011/0178883 A1	7/2011	Granbery	2014/0074714 A1	3/2014	Melone et al.
2011/0225067 A1	9/2011	Dunwoody	2014/0074723 A1	3/2014	Kamat
2011/0238476 A1	9/2011	Carr	2014/0085046 A1	3/2014	Shin et al.
2011/0244799 A1	10/2011	Roberts et al.	2014/0085109 A1	3/2014	Stefik
2011/0251892 A1	10/2011	Laracey	2014/0089016 A1	3/2014	Smullin
2011/0251910 A1	10/2011	Dimmick	2014/0100977 A1	4/2014	Davis
2011/0276636 A1	11/2011	Cheng et al.	2014/0122298 A1	5/2014	Oyer
2011/0289023 A1	11/2011	Forster et al.	2014/0136301 A1	5/2014	Valdes
2012/0011024 A1	1/2012	Dorsey et al.	2014/0136411 A1	5/2014	Cho
2012/0016731 A1	1/2012	Smith et al.	2014/0143055 A1	5/2014	Johnson
2012/0029691 A1	2/2012	Mockus et al.	2014/0143074 A1	5/2014	Kolls
2012/0030047 A1	2/2012	Fuentes	2014/0172179 A1	6/2014	Baudin
2012/0036045 A1	2/2012	Lowe et al.	2014/0180852 A1	6/2014	Kamat
2012/0066096 A1	3/2012	Penide	2014/0108108 A1	7/2014	Artman
2012/0078735 A1	3/2012	Bauer et al.	2014/0188708 A1	7/2014	Govindarajan et al.
2012/0108173 A1	5/2012	Hahm et al.	2014/0201066 A1	7/2014	Roux et al.
2012/0136478 A1	5/2012	Anand	2014/0249995 A1	9/2014	Ogilvy
2012/0150742 A1	6/2012	Poon et al.	2014/0278989 A1	9/2014	Calman
2012/0158172 A1	6/2012	Wencslao	2014/0279008 A1	9/2014	Calman
2012/0160912 A1	6/2012	Laracey	2014/0279101 A1	9/2014	Duplan et al.
2012/0197740 A1	8/2012	Grigg et al.	2014/0279556 A1	9/2014	Priebatsch
2012/0203666 A1 *	8/2012	Torossian G06Q 20/027	2014/0289047 A1	9/2014	Yee
		705/26.41	2014/0317611 A1	10/2014	Wojcik et al.
2012/0231844 A1	9/2012	Coppinger	2014/0324627 A1	10/2014	Haver
2012/0246074 A1	9/2012	Annamalai et al.	2014/0337235 A1 *	11/2014	Van Heerden G06Q 20/383
2012/0253852 A1	10/2012	Pourfallah			705/71
2012/0254631 A1	10/2012	Skillman et al.	2014/0351099 A1	11/2014	Zhu
2012/0255653 A1	10/2012	Chin	2014/0361872 A1	12/2014	Garcia et al.
2012/0258773 A1	10/2012	Alvarez Rivera	2014/0378057 A1	12/2014	Ramon et al.
2012/0276845 A1	11/2012	Wikander	2015/0006421 A1	1/2015	Pearson
2012/0290472 A1	11/2012	Mullen et al.	2015/0051977 A1	2/2015	Lyman
2012/0296826 A1	11/2012	Bergdale et al.	2015/0073980 A1	3/2015	Griffin et al.
2012/0303528 A1	11/2012	Weiner et al.	2015/0081462 A1	3/2015	Ozvat et al.
2012/0316963 A1	12/2012	Moshfeghi	2015/0088698 A1	3/2015	Ackerman
2012/0330844 A1	12/2012	Kaufman	2015/0100152 A1	4/2015	Trevino et al.
2013/0030931 A1	1/2013	Moshfeghi	2015/0105901 A1	4/2015	Joshi et al.
2013/0054016 A1	2/2013	Canter et al.	2015/0120546 A1	4/2015	Fernandes
2013/0054336 A1	2/2013	Graylin	2015/0120555 A1	4/2015	Jung
2013/0054395 A1	2/2013	Cyr et al.	2015/0149992 A1	5/2015	Wade et al.
2013/0067365 A1	3/2013	Shrufi et al.	2015/0154579 A1	6/2015	Teicher
2013/0085835 A1	4/2013	Horowitz	2015/0169312 A1	6/2015	Patel
2013/0100886 A1	4/2013	Cherian	2015/0170131 A1	6/2015	Patel
2013/0110296 A1	5/2013	Khoo	2015/0170132 A1	6/2015	Patel
			2015/0170136 A1	6/2015	Patel
			2015/0178702 A1	6/2015	Patel
			2015/0235202 A1	8/2015	Zabala
			2015/0278811 A1	10/2015	Lalchandani

(56)

References Cited**U.S. PATENT DOCUMENTS**

2015/0287085	A1	10/2015	Windmueller	
2015/0302377	A1	10/2015	Sweitzer	
2015/0317720	A1	11/2015	Ramaratnam	
2015/0332029	A1	11/2015	Coxe	
2015/0346994	A1	12/2015	Chanyontpatanakul	
2015/0373537	A1	12/2015	Toksvig	
2016/0019604	A1	1/2016	Kobayashi	
2016/0063476	A1	3/2016	Baldie	
2016/0086145	A1	3/2016	Tsutsui	
2016/0092859	A1	3/2016	Klingen	
2016/0132870	A1*	5/2016	Xu	G06Q 20/382 705/21
2016/0196220	A1	7/2016	Perez et al.	
2016/0232515	A1	8/2016	Jhas	
2016/0292469	A1	10/2016	Ianni	
2016/0335620	A1	11/2016	Lyons et al.	
2017/0006656	A1	1/2017	Nacer et al.	
2017/0193508	A1	1/2017	Patel et al.	
2017/0193478	A1	7/2017	Dhurka	
2018/0005220	A1	1/2018	Laracey	
2018/0197167	A1*	7/2018	Ganesan	G06Q 20/4016
2018/0240096	A1	8/2018	Patel	
2018/0374076	A1*	12/2018	Wheeler	G06Q 20/3224
2019/0236586	A1*	8/2019	Mei	G06Q 20/401
2019/0244205	A1	8/2019	Fieglein	

FOREIGN PATENT DOCUMENTS

EP	2061001	A1	5/2009
JP	2002-183812	A	6/2002
JP	2003-242401	A	8/2003
JP	2003-323662	A	11/2003
JP	2004-252640	A	9/2004
JP	2005-526325	T	9/2005
JP	2009-259226	A	11/2009
JP	2012-504273	T	2/2012
WO	WO 2003/098561		11/2003
WO	WO 2007/015610	A1	2/2007
WO	WO 2008/083022	A1	7/2008
WO	WO 2008/083025	A2	7/2008
WO	WO 2008/083078	A2	7/2008
WO	WO 2008/083089	A1	7/2008
WO	WO 2008/083105	A2	7/2008
WO	WO 2008/083115	A1	7/2008
WO	WO 2008/083119	A1	7/2008
WO	WO 2009/070430	A2	6/2009
WO	WO 2013/132995	A1	9/2013
WO	WO 2013/177416	A2	11/2013
WO	WO 2014/093857	A1	6/2014
WO	WO 2016/123545	A1	8/2016
WO	WO 2017/010936	A1	1/2017
WO	WO 2017/143079	A1	8/2017

OTHER PUBLICATIONS

Carton et al., Framework for Mobile Payments Integration, Electronic Journal of Information Systems Evaluation, 15.1: 13-24, Academic Conferences International Limited, January. (Year: 2012).*

@RobocopyEs, posted Oct. 11, 2014, retrieved Feb. 13, 2018, <URL:https://twitter.com/robocopyes> 2 pgs.

Adams, How can stationary kiosks thrive in a mobile world?, American Banker, 2012.

Balan et al., mFerio: the design and evaluation of a peer-to-peer mobile payment system, Jun. 2009, 14 pgs.

Balfe et al., e-EMV: emulating EMV for internet payments with trusted computing Technologies, Oct. 2008, 12 pgs.

Bing, Bing Images Search: "dongle", http://www.bing.com/images/search?q=dongle&FORM=HDRSC2, Dec. 5, 2013, 8 pgs.

Carlson, Specification, U.S. Appl. No. 60/871,898, filed Dec. 26, 2006, 169 pgs.

Frolick, Assessing M-Commerce Opportunities, Auerbach Publications Inc., Information Systems Management, Spring 2004.

Google, Chromecast, http://www.google.com/intl/devices/chromecast/, Dec. 12, 2013, 4 pgs.

How to Pay the New Way, youtube, Apr. 5, 2018, 4 pgs.

How will Apple's new mobile wallet Passbook impact other mobile wallets?, posted Jun. 13, 2012, retrieved Feb. 13, 2018 from <URL:https://www.quora.com/How-will-Apples-new-mobile-wallet-Passbook-impact-other-mobile-wallets>, 5 pgs.

Kadambi et al., Near-Field Communication-based Secure Mobile Payment Service, Aug. 2009, 10 pgs.

Madlmayr et al., Near Field Communication Based Mobile Payment System, Austrian Research Funding Agency, Project 811408, Mar. 6, 2008, 13 pgs.

Novotny, Applying RFID technology in the retail industry-benefits and concerns from the consumer's perspective, Institute of Economic Science, Eszterhazy Karoly College, Eger, Hungary, Retail Technologies for the 21 Century, innovation and competitiveness in the retail industry, 2015.

Nurel, Recent Developments in Wireless Network Systems, Izmir Institute of Technology, Sep. 2001, 280 pgs.

Patel, Final Office Action, U.S. Appl. No. 14/320,534, dated Mar. 2, 2018, 26 pgs.

Patel, Final Office Action, U.S. Appl. No. 14/320,534, dated Apr. 16, 2015, 21 pgs.

Patel, Final Office Action, U.S. Appl. No. 14/320,534, dated Nov. 30, 2016, 24 pgs.

Patel, Final Office Action, U.S. Appl. No. 14/321,717, dated Jun. 18, 2015, 22 pgs.

Patel, Final Office Action, U.S. Appl. No. 14/321,724, dated Oct. 8, 2015, 19 pgs.

Patel, Final Office Action, U.S. Appl. No. 14/321,724, dated Dec. 13, 2017, 22 pgs.

Patel, Final Office Action, U.S. Appl. No. 14/321,733, dated Nov. 14, 2014, 11 pgs.

Patel, Final Office Action, U.S. Appl. No. 14/335,762, dated Jun. 9, 2016, 15 pgs.

Patel, Final Office Action, U.S. Appl. No. 14/456,683, dated Jun. 8, 2015, 14 pgs.

Patel, Final Office Action, U.S. Appl. No. 14/458,192, dated Sep. 16, 2015, 26 pgs.

Patel, Final Office Action, U.S. Appl. No. 14/458,199, dated Jun. 24, 2015, 8 pgs.

Patel, Final Office Action, U.S. Appl. No. 14/641,236, dated Mar. 11, 2016, 16 pgs.

Patel, Final Office Action, U.S. Appl. No. 14/968,703, dated Feb. 12, 2019, 22 pgs.

Patel, Final Office Action, U.S. Appl. No. 15/435,228, dated Oct. 2, 2020, 24 pgs.

Patel, Final Office Action, U.S. Appl. No. 15/893,514, dated Jul. 22, 2021, 12 pgs.

Patel, Final Office Action, U.S. Appl. No. 15/956,741, dated Oct. 2, 2020, 12 pgs.

Patel, Notice of Allowance, U.S. Appl. No. 14/214,644, dated Jun. 10, 2014, 9 pgs.

Patel, Notice of Allowance, U.S. Appl. No. 14/321,733, dated Jun. 22, 2015, 8 pgs.

Patel, Notice of Allowance, U.S. Appl. No. 14/321,733, dated Feb. 27, 2015, 9 pgs.

Patel, Notice of Allowance, U.S. Appl. No. 14/335,762, dated Oct. 3, 2016, 7 pgs.

Patel, Notice of Allowance, U.S. Appl. No. 14/335,762, dated Mar. 30, 2015, 9 pgs.

Patel, Notice of Allowance, U.S. Appl. No. 14/456,683, dated Oct. 8, 2015, 15 pgs.

Patel, Notice of Allowance, U.S. Appl. No. 14/458,192, dated Oct. 12, 2017, 8 pgs.

Patel, Notice of Allowance, U.S. Appl. No. 14/458,199, dated Jan. 20, 2017, 9 pgs.

Patel, Notice of Allowance, U.S. Appl. No. 14/611,065, dated Mar. 26, 2018, 18 pgs.

Patel, Notice of Allowance, U.S. Appl. No. 14/614,336, dated Dec. 11, 2015, 8 pgs.

Patel, Notice of Allowance, U.S. Appl. No. 14/614,336, dated Nov. 25, 2015, 13 pgs.

(56)

References Cited**OTHER PUBLICATIONS**

Patel, Notice of Allowance, U.S. Appl. No. 14/968,703, dated Jun. 27, 2019, 10 pgs.
 Patel, Notice of Allowance, U.S. Appl. No. 15/406,492, dated Mar. 11, 2020, 9 pgs.
 Patel, Notice of Allowance, U.S. Appl. No. 15/435,228, dated Aug. 12, 2021, 9 pgs.
 Patel, Notice of Allowance, U.S. Appl. No. 15/603,400, dated Dec. 18, 2019, 8 pgs.
 Patel, Notice of Allowance, U.S. Appl. No. 15/603,400, dated Jun. 18, 2020, 5 pgs.
 Patel, Notice of Allowance, U.S. Appl. No. 15/878,352, dated Oct. 23, 2020, 8 pgs.
 Patel, Notice of Allowance, U.S. Appl. No. 16/029,483, dated Dec. 23, 2020, 21 pgs.
 Patel, Notice of Allowance, U.S. Appl. No. 16/748,727, dated May 9, 2022, 16 pgs.
 Patel, Notice of Allowance, U.S. Appl. No. 16/748,727, dated Jan. 20, 2022, 15 pgs.
 Patel, Notice of Allowance, U.S. Appl. No. 16/750,477, dated Jan. 26, 2022, 14 pgs.
 Patel, Notice of Allowance, U.S. Appl. No. 16/934,933, dated Mar. 31, 2021, 8 pgs.
 Patel, Office Action, U.S. Appl. No. 14/320,534, dated Apr. 8, 2016, 21 pgs.
 Patel, Office Action, U.S. Appl. No. 14/320,534, dated Oct. 29, 2014, 18 pgs.
 Patel, Office Action, U.S. Appl. No. 14/321,717, dated Dec. 19, 2014, 16 pgs.
 Patel, Office Action, U.S. Appl. No. 14/321,724, dated Mar. 13, 2017, 21 pgs.
 Patel, Office Action, U.S. Appl. No. 14/321,724, dated May 15, 2015, 19 pgs.
 Patel, Office Action, U.S. Appl. No. 14/321,733, dated Aug. 21, 2014, 9 pgs.
 Patel, Office Action, U.S. Appl. No. 14/335,762, dated Dec. 10, 2014, 7 pgs.
 Patel, Office Action, U.S. Appl. No. 14/335,762, dated Sep. 18, 2015, 13 pgs.
 Patel, Office Action, U.S. Appl. No. 14/456,683, dated Jan. 2, 2015, 10 pgs.
 Patel, Office Action, U.S. Appl. No. 14/458,192, dated Mar. 23, 2017, 26 pgs.
 Patel, Office Action, U.S. Appl. No. 14/458,192, dated Jan. 30, 2015, 24 pgs.
 Patel, Office Action, U.S. Appl. No. 14/458,199, dated Jan. 5, 2015, 7 pgs.
 Patel, Office Action, U.S. Appl. No. 14/458,199, dated Mar. 28, 2016, 8 pgs.
 Patel, Office Action, U.S. Appl. No. 14/611,065, dated Oct. 3, 2016, 19 pgs.
 Patel, Office Action, U.S. Appl. No. 14/611,065, dated Jun. 13, 2017, 17 pgs.
 Patel, Office Action, U.S. Appl. No. 14/614,336, dated May 27, 2015, 17 pgs.
 Patel, Office Action, U.S. Appl. No. 14/641,236, dated Feb. 7, 2018, 19 pgs.
 Patel, Office Action, U.S. Appl. No. 14/641,236, dated May 29, 2015, 10 pgs.
 Patel, Office Action, U.S. Appl. No. 14/968,703, dated Aug. 7, 2018, 31 pgs.
 Patel, Office Action, U.S. Appl. No. 15/406,492, dated Jul. 25, 2019, 16 pgs.
 Patel, Office Action, U.S. Appl. No. 15/435,228, dated Mar. 26, 2020, 21 pgs.
 Patel, Office Action, U.S. Appl. No. 15/603,400, dated Jun. 12, 2019, 10 pgs.
 Patel, Office Action, U.S. Appl. No. 15/878,352, dated Jan. 24, 2020, 12 pgs.

Patel, Office Action, U.S. Appl. No. 15/893,514, dated Oct. 29, 2020, 17 pgs.
 Patel, Office Action, U.S. Appl. No. 15/956,741, dated Apr. 22, 2020, 10 pgs.
 Patel, Office Action, U.S. Appl. No. 15/956,741, dated Dec. 27, 2021, 10 pgs.
 Patel, Office Action, U.S. Appl. No. 16/029,483, dated Apr. 27, 2020, 28 pgs.
 Patel, Office Action, U.S. Appl. No. 16/681,673, dated Dec. 24, 2021, 20 pgs.
 Patel, Office Action, U.S. Appl. No. 16/934,933, dated Oct. 28, 2020, 9 pgs.
 Patel, Office Action, U.S. Appl. No. 17/216,399, dated Apr. 8, 2022, 14 pgs.
 PayRange Inc., Communication Pursuant to Article 94(3), EP 14828617.2, dated Dec. 19, 2017, 6 pgs.
 PayRange Inc., Communication Pursuant to Article 94(3), EP 16706931.9, dated Jun. 29, 2018, 8 pgs.
 PayRange Inc., Communication Pursuant to Rules 161(1) and 162, EP 14828617.2, dated Sep. 21, 2016, 2 pgs.
 PayRange Inc., Communication Pursuant to Rules 161(1) and 162, EP 16706931.9, dated Sep. 21, 2017, 2 pgs.
 PayRange Inc., Communication under Rule 71(3) EPC, EP 14828617.2, dated Nov. 19, 2020, 8 pgs.
 PayRange Inc., Communication under Rule 71(3) EPC, EP 17708929.9, dated Jun. 12, 2020, 5 pgs.
 PayRange Inc., European Search Report, EP 20203134.1, dated Feb. 9, 2021, 2 pgs.
 PayRange Inc., European Search Report, EP 21165692.1, dated Sep. 14, 2021, 9 pgs.
 PayRange Inc., IPRP, PCT/US2014/071284, dated Jun. 21, 2016, 6 pgs.
 PayRange Inc., IPRP, PCT/US2016/015763, dated Aug. 1, 2017, 7 pgs.
 PayRange Inc., IPRP, PCT/US2017/015676, dated Jul. 31, 2018, 9 pgs.
 PayRange Inc., IPRP, PCT/US2017/018194, dated Aug. 21, 2018, 17 pgs.
 PayRange Inc., IPRP, PCT/US2019/060777, dated May 11, 2021, 7 pgs.
 PayRange Inc., ISR/WO, PCT/US2014/071284, dated Mar. 25, 2015, 9 pgs.
 PayRange Inc., ISR/WO, PCT/US2016/015763, dated Apr. 8, 2016, 9 pgs.
 PayRange Inc., ISR/WO, PCT/US2017/015676, dated Apr. 18, 2017, 11 pgs.
 PayRange Inc., ISR/WO, PCT/US2017/018194, dated Apr. 12, 2017, 10 pgs.
 PayRange Inc., ISR/WO, PCT/US2019/060777, dated Feb. 6, 2020, 11 pgs.
 PayRange Inc., ISR/WO, PCT/US2021/042632, dated Nov. 17, 2021, 11 pgs.
 PayRange Inc., Notice of Reasons for Rejection, JP 2017-527886, dated Aug. 29, 2019, 10 pgs.
 PayRange Inc., Notice of Reasons for Rejection, JP 2018-543707, dated Sep. 4, 2020, 4 pgs.
 PayRange Inc., Notice of Reasons for Rejection, JP 2020-101558, dated Oct. 7, 2021, 2 pgs.
 PayRange Inc., Summons to Attend Oral Proceedings, EP 14828617.2, Apr. 2, 2020, 12 pgs.
 PayRange New Product Launch, posted at youtube.com Jun. 27, 2015, © 2016 YouTube, LLC, [online], [site visited Mar. 2, 2016]. Available from Internet, <URL: <https://www.youtube.com/watch?v=NTvvV03XFeg..>>, 1 pg.
 Raja, A Stochastic Game Theoretic Model for Expanding ATM Services. <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7395687>, 2015, 8 pgs.
 Smart Vending Machine Demo at TechCrunch Disrupt 2013, posted at youtube.com Dec. 3, 2013, © 2016 YouTube, LLC, [online], [site visited Mar. 2, 2016]. Available from internet, URL: <https://www.youtube.com/watch?v=XEzIH-gxLj8>>.

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