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**Fisher**

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(54) **BLAZE REMOTE MANAGEMENT SERVER FOR DOWNLOADING A DIGITAL PRODUCT**

(71) Applicant: **Michelle Fisher**, Berkeley, CA (US)

(72) Inventor: **Michelle Fisher**, Berkeley, CA (US)

(73) Assignee: **Michelle Fisher**, Berkeley, CA (US)

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(56) **References Cited**

U.S. PATENT DOCUMENTS

6,038,367 A 3/2000 Abecassis  
6,101,483 A \* 8/2000 Petrovich ..... G06Q 20/343  
705/26.8

(Continued)

FOREIGN PATENT DOCUMENTS

EP 1503352 7/2004  
WO WO 2006095212 A1 9/2006

(Continued)

OTHER PUBLICATIONS

U.S. Appl. No. 14/253,648 Board Decision dated May 13, 2020, p. 7-10.

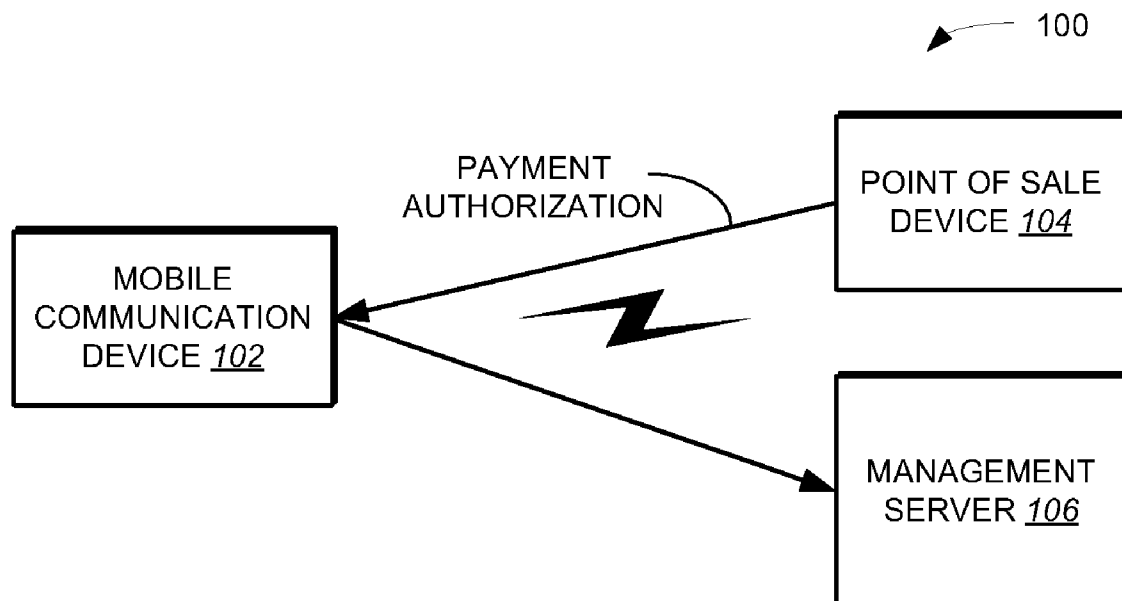
(Continued)

*Primary Examiner* — Olusegun Goyea

(57) **ABSTRACT**

A method and system for conducting an online payment transaction through a point of sale device. The method includes receiving input from a user selecting an item for purchase through the point of sale device; calculating a total purchase amount for the item in response to a request from the user to purchase the item; and sending payment authorization for the total purchase amount from the point of sale device to a payment entity, in which the payment authorization is sent to the payment entity via a mobile communication device of the user. The method further includes receiving a result of the payment authorization from the payment entity through the mobile communication device; and completing the payment transaction based on the result of the payment authorization.

**26 Claims, 4 Drawing Sheets**



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(58) **Field of Classification Search**

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(56)

**References Cited**

U.S. PATENT DOCUMENTS

6,115,601 A \* 9/2000 Ferreira ..... H04M 17/20 455/406  
 6,123,259 A \* 9/2000 Ogasawara ..... G06Q 30/0267 705/14.1  
 6,128,655 A 10/2000 Fields  
 6,141,666 A 10/2000 Tobin  
 6,199,082 B1 3/2001 Ferrel  
 6,250,557 B1 \* 6/2001 Forslund ..... G06Q 20/229 235/375  
 6,394,341 B1 \* 5/2002 Makipaa ..... G06Q 20/322 235/379  
 6,415,156 B1 7/2002 Stadelmann  
 6,450,407 B1 \* 9/2002 Freeman ..... G06K 19/0723 235/487  
 6,466,203 B2 10/2002 Van Ee  
 6,587,835 B1 \* 7/2003 Treyz ..... G06Q 30/0633 705/14.64  
 6,605,120 B1 8/2003 Fields  
 6,771,981 B1 8/2004 Zalewski  
 6,772,396 B1 8/2004 Cronin  
 6,886,017 B1 4/2005 Jackson  
 6,950,939 B2 9/2005 Tobin  
 7,063,263 B2 3/2006 Swartz  
 7,031,945 B1 4/2006 Donner  
 7,069,248 B2 6/2006 Huber  
 7,096,003 B2 8/2006 Joao  
 7,110,744 B2 9/2006 Freeny  
 7,110,792 B2 \* 9/2006 Rosenberg ..... G06Q 20/085 455/406  
 7,127,236 B2 10/2006 Khan  
 7,200,578 B2 \* 4/2007 Paltenghe ..... G06Q 20/3574 705/26.1  
 7,289,810 B2 10/2007 Jagadeesan  
 7,308,254 B1 12/2007 Rissanen  
 7,357,312 B2 4/2008 Gangi  
 7,379,920 B2 5/2008 Leung  
 7,383,226 B2 \* 6/2008 Kight ..... G06Q 20/10 705/40  
 7,472,829 B2 1/2009 Brown  
 7,482,925 B2 1/2009 Hammad  
 7,493,284 B2 2/2009 Celi et al.  
 7,512,567 B2 \* 3/2009 Bommel ..... G06Q 20/204 705/64  
 7,522,905 B2 4/2009 Hammad  
 7,555,284 B2 \* 6/2009 Yan ..... G06Q 20/045 455/566  
 7,680,824 B2 \* 3/2010 Plastina ..... G06F 16/433 715/764  
 7,739,596 B2 6/2010 Clarke-Martin  
 7,783,532 B2 \* 8/2010 Hsu ..... G06Q 30/0236 705/28  
 7,784,684 B2 \* 8/2010 Labrou ..... G06Q 20/327 705/64  
 7,792,756 B2 \* 9/2010 Plastina ..... H04W 12/64 707/630  
 7,818,284 B1 \* 10/2010 Walker ..... G06Q 30/0605 705/26.2  
 7,827,056 B2 \* 11/2010 Walker ..... G06Q 20/387 705/14.1  
 7,870,077 B2 \* 1/2011 Woo ..... G06Q 30/06 705/16

(56)	<b>References Cited</b>								
	U.S. PATENT DOCUMENTS								
7,979,519	B2 *	7/2011	Shigeta	.....	H04L 69/329				
						709/224			
8,005,426	B2 *	8/2011	Huomo	.....	G06Q 20/20				
						235/441			
8,019,362	B2 *	9/2011	Sweatman	.....	H04W 88/184				
						455/466			
8,073,424	B2 *	12/2011	Sun	.....	G06Q 20/326				
						455/406			
8,086,534	B2 *	12/2011	Powell	.....	G06Q 40/02				
						705/64			
8,109,444	B2 *	2/2012	Jain	.....	G06K 19/07707				
						235/487			
8,121,945	B2	2/2012	Rackley						
8,127,984	B2 *	3/2012	Zatloukal	.....	G06K 19/0723				
						455/73			
8,214,454	B1 *	7/2012	Barnes	.....	G06F 16/955				
						709/217			
8,429,030	B2 *	4/2013	Walker	.....	G06Q 30/06				
						705/26.7			
8,429,031	B2 *	4/2013	Walker	.....	G06Q 30/0224				
						705/26.7			
8,438,077	B2 *	5/2013	Walker	.....	G06Q 30/0601				
						705/26.7			
8,438,078	B2 *	5/2013	Walker	.....	G06Q 10/087				
						705/26.7			
8,467,766	B2 *	6/2013	Rackley, III	.....	G06Q 20/3221				
						455/406			
8,484,058	B2 *	7/2013	Benson	.....	G06Q 10/02				
						705/26.1			
8,489,067	B2 *	7/2013	Rackley, III	.....	G06Q 20/3223				
						455/406			
8,510,220	B2 *	8/2013	Rackley, III	.....	G06Q 20/102				
						705/40			
8,566,239	B2	10/2013	Arthur						
8,693,995	B2	4/2014	Fisher						
9,294,917	B2	3/2016	Nystrom						
9,996,849	B2	6/2018	Fisher						
10,339,556	B2	7/2019	Fisher						
10,621,612	B2	4/2020	Fisher						
10,825,007	B2	11/2020	Fisher						
2001/0011250	A1 *	8/2001	Paltenghe	.....	G07F 7/08				
						705/41			
2001/0044751	A1 *	11/2001	Pugliese, III	.....	G06Q 30/02				
						705/14.1			
2001/0049636	A1 *	12/2001	Hudda	.....	G06Q 30/0601				
						705/26.1			
2002/0026423	A1 *	2/2002	Maritzen	.....	G06Q 20/023				
						705/56			
2002/0056091	A1 *	5/2002	Bala	.....	G06Q 30/0269				
						725/23			
2002/0059100	A1	5/2002	Shore						
2002/0063895	A1	5/2002	Agata						
2002/0065774	A1 *	5/2002	Young	.....	G06Q 20/322				
						705/41			
2002/0077918	A1	6/2002	Lerner						
2002/0082879	A1	6/2002	Miller						
2002/0101993	A1 *	8/2002	Eskin	.....	H04L 67/04				
						380/270			
2002/0107756	A1	8/2002	Hammons						
2002/0116269	A1 *	8/2002	Ishida	.....	G06Q 30/0267				
						719/318			
2002/0160761	A1 *	10/2002	Wolfe	.....	H04M 3/493				
						455/566			
2002/0169664	A1 *	11/2002	Walker	.....	G06Q 30/0207				
						705/26.1			
2002/0169984	A1	11/2002	Kumar						
2003/0069812	A1	1/2003	Yuen						
2003/0033272	A1 *	2/2003	Himmel	.....	G06Q 20/047				
2003/0061113	A1 *	3/2003	Petrovich	.....	G06Q 10/087				
						705/26.43			
2003/0149662	A1	3/2003	Shore						
2003/0065805	A1	4/2003	Barnes						
2003/0066883	A1 *	4/2003	Yu	.....	G06Q 20/04				
						235/382			
2003/0074259	A1 *	4/2003	Slyman, Jr.	.....	G06Q 30/0221				
						705/17			
2003/0085286	A1 *	5/2003	Kelley	.....	G07F 7/1008				
						235/492			
2003/0087601	A1 *	5/2003	Agam	.....	H04W 12/06				
						455/39			
2003/0093311	A1 *	5/2003	Knowlson	.....	H04M 15/58				
						705/14.66			
2003/0093695	A1	5/2003	Dutta						
2003/0105641	A1	6/2003	Lewis						
2003/0132298	A1 *	7/2003	Swartz	.....	G06Q 20/3276				
						235/472.02			
2003/0140004	A1	7/2003	O'Leary						
2003/0163359	A1 *	8/2003	Kanesaka	.....	G06Q 30/0204				
						705/7.33			
2003/0172028	A1	9/2003	Abell						
2004/0006497	A1	1/2004	Nestor						
2004/0030658	A1 *	2/2004	Cruz	.....	G06Q 20/367				
						705/65			
2004/0034544	A1	2/2004	Fields						
2004/0107136	A1	3/2004	Nemirofsky						
2004/0064407	A1 *	4/2004	Kight	.....	G06Q 20/385				
						705/40			
2004/0064408	A1 *	4/2004	Kight	.....	G06Q 40/06				
						705/40			
2004/0064409	A1 *	4/2004	Kight	.....	G06Q 20/04				
						705/40			
2004/0064410	A1 *	4/2004	Kight	.....	G06Q 20/385				
						705/40			
2004/0073439	A1 *	4/2004	Shuster	.....	G07C 9/253				
						726/21			
2004/0073497	A1 *	4/2004	Hayes	.....	G06Q 30/0601				
						705/26.1			
2004/0078329	A1 *	4/2004	Kight	.....	G06Q 20/0855				
						705/40			
2004/0083167	A1 *	4/2004	Kight	.....	G06Q 20/0855				
						705/40			
2004/0093271	A1 *	5/2004	Walker	.....	G06Q 30/02				
						705/26.1			
2004/0111320	A1 *	6/2004	Schlieffers	.....	A47F 9/047				
						705/16			
2004/0127256	A1 *	7/2004	Goldthwaite	.....	G06K 7/0073				
						455/466			
2004/0143545	A1 *	7/2004	Kulakowski	.....	G06Q 20/305				
						705/39			
2004/0230489	A1	11/2004	Goldthwaite						
2004/0235450	A1 *	11/2004	Rosenberg	.....	H04M 1/0254				
						455/406			
2004/0243519	A1	12/2004	Perttila						
2004/0254836	A1 *	12/2004	Emoke Barabas	.....	G06Q 30/0267				
						705/14.35			
2004/0267611	A1	12/2004	Hoerenz						
2004/0267618	A1	12/2004	Judicibus						
2004/0267665	A1	12/2004	Nam						
2005/0003810	A1	1/2005	Chu						
2005/0021478	A1 *	1/2005	Gautier	.....	G06Q 20/12				
						705/65			
2005/0037735	A1 *	2/2005	Coutts	.....	G06Q 20/341				
						455/418			
2005/0040230	A1 *	2/2005	Swartz	.....	G07G 1/0072				
						235/383			
2005/0043994	A1 *	2/2005	Walker	.....	G06Q 30/0217				
						705/14.19			
2005/0060536	A1 *	3/2005	Iga	.....	G06Q 20/367				
						713/155			
2005/0202385	A1	3/2005	Coward						
2005/0076210	A1	4/2005	Thomas						
2005/0131837	A1 *	6/2005	Sanctis	.....	G06Q 20/12				
						705/64			
2005/0150945	A1 *	7/2005	Choi	.....	G06Q 20/108				
						235/379			
2005/0165646	A1 *	7/2005	Tedesco	.....	B42D 15/00				
						705/14.1			

(56)

## References Cited

## U.S. PATENT DOCUMENTS

2005/0187873	A1 *	8/2005	Labrou	.....	G06Q 20/326 705/40	2007/0015060	A1	3/2007	Angelica	
2005/0190970	A1	9/2005	Griffin			2007/0095892	A1	5/2007	Lyons	
2005/0203959	A1 *	9/2005	Muller	.....	G06Q 30/06	2007/0125838	A1 *	6/2007	Law	..... G06Q 20/3223 705/65
2005/0210387	A1 *	9/2005	Alagappan	.....	H04L 9/40 715/700	2007/0125840	A1 *	6/2007	Law	..... G06Q 20/326 705/65
2005/0215231	A1	9/2005	Bauchot			2007/0138299	A1 *	6/2007	Mitra	..... G06Q 20/341 235/492
2005/0222961	A1 *	10/2005	Staib	.....	H04M 1/0254 705/64	2007/0145135	A1	6/2007	Jogand-Coulomb	
2005/0240484	A1 *	10/2005	Yan	.....	G07B 15/00 455/411	2007/0131759	A1	7/2007	Cox	
2005/0278377	A1 *	12/2005	Mirrashidi	.....	G06Q 30/02	2007/0156436	A1 *	7/2007	Fisher	..... G06Q 20/425 705/40
2005/0283444	A1 *	12/2005	Ekberg	.....	H04L 9/3242 705/67	2007/0175978	A1 *	8/2007	Stambaugh	..... G06Q 40/12 235/379
2006/0000900	A1	1/2006	Fernandes			2007/0179883	A1 *	8/2007	Questembert	..... G06Q 20/10 705/39
2006/0008256	A1	1/2006	Khedouri			2007/0210155	A1 *	9/2007	Swartz	..... G06Q 20/20 235/383
2006/0014518	A1 *	1/2006	Huh	.....	H04M 15/06 455/406	2007/0235519	A1	10/2007	Jang	
2006/0031752	A1 *	2/2006	Surloff	.....	G06F 3/0213 707/E17.112	2007/0235539	A1 *	10/2007	Sevanto	..... G07F 7/1008 235/451
2006/0044153	A1 *	3/2006	Dawidowsky	.....	G06K 19/0723 710/10	2007/0255662	A1	11/2007	Tumminaro	
2006/0089874	A1 *	4/2006	Newman	.....	G06Q 10/10 705/14.32	2007/0262139	A1	11/2007	Fiebiger	
2006/0089949	A1 *	4/2006	Robbin	.....	G06Q 30/0601	2007/0266130	A1	11/2007	Mazur	
2006/0095339	A1 *	5/2006	Hayashi	.....	G06Q 30/0641 705/26.8	2007/0270166	A1 *	11/2007	Hampel	..... H04L 51/222 455/456.3
2006/0100924	A1 *	5/2006	Tevanian	.....	G06Q 30/0222 705/14.23	2007/0288966	A1 *	12/2007	Javid	..... H04N 21/4755 348/E7.071
2006/0123052	A1 *	6/2006	Robbin	.....	G06Q 30/00	2007/0293155	A1 *	12/2007	Liao	..... G06Q 20/3229 455/41.2
2006/0135156	A1 *	6/2006	Malu	.....	H04W 8/18 455/432.3	2008/0004952	A1 *	1/2008	Koli	..... G06Q 30/0267 705/14.55
2006/0143091	A1 *	6/2006	Yuan	.....	G06Q 30/0601 705/26.1	2008/0006685	A1 *	1/2008	Rackley, III	..... G06Q 40/00 235/379
2006/0165060	A1 *	7/2006	Dua	.....	G06Q 20/401 705/76	2008/0010190	A1 *	1/2008	Rackley, III	..... G06Q 20/3223 705/39
2006/0173701	A1 *	8/2006	Gurvey	.....	G06Q 20/3674 705/902	2008/0010191	A1 *	1/2008	Rackley, III	..... G06Q 20/363 705/39
2006/0180660	A1 *	8/2006	Gray	.....	G06Q 20/322 455/414.1	2008/0010192	A1 *	1/2008	Rackley, III	..... G06Q 20/10 705/39
2006/0184398	A1 *	8/2006	Kasagi	.....	G06Q 50/182 705/309	2008/0010193	A1 *	1/2008	Rackley, III	..... G06Q 20/325 705/39
2006/0184431	A1 *	8/2006	Rosenberg	.....	H04N 21/42684 705/26.8	2008/0010196	A1 *	1/2008	Rackley, III	..... G06Q 40/00 705/40
2006/0191995	A1 *	8/2006	Stewart	.....	G06Q 20/02 235/382	2008/0010204	A1 *	1/2008	Rackley, III	..... G06Q 20/14 705/45
2006/0206709	A1 *	9/2006	Labrou	.....	G06Q 20/18 713/167	2008/0010215	A1 *	1/2008	Rackley, III	..... G06Q 20/326 705/70
2006/0212401	A1 *	9/2006	Ameerally	.....	G06Q 30/02 705/51	2008/0011825	A1 *	1/2008	Giordano	..... G06Q 20/04 235/383
2006/0218092	A1 *	9/2006	Tedesco	.....	G06Q 20/14 705/40	2008/0017704	A1 *	1/2008	VanDeburg	..... G07F 7/025 235/380
2006/0219780	A1 *	10/2006	Swartz	.....	G07F 7/02 235/383	2008/0027795	A1 *	1/2008	Medlin	..... G06Q 20/387 705/14.23
2006/0229998	A1	10/2006	Harrison			2008/0294556	A1	1/2008	Anderson	
2006/0235864	A1 *	10/2006	Hotelling	.....	G06Q 30/0603	2008/0040265	A1 *	2/2008	Rackley, III	..... G06Q 20/102 705/40
2006/0242267	A1	10/2006	Grossman			2008/0045172	A1 *	2/2008	Narayanaswami	..... G06Q 30/02 455/187.1
2006/0247976	A1 *	11/2006	Posokhow	.....	G06Q 30/06 705/26.81	2008/0046366	A1 *	2/2008	Bemmel	..... G06Q 40/12 705/44
2006/0248113	A1 *	11/2006	Leffert	.....	G06Q 40/04	2008/0048022	A1 *	2/2008	Vawter	..... G06Q 20/425 235/380
2006/0248114	A1 *	11/2006	Anderson	.....	G06Q 30/06	2008/0051059	A1 *	2/2008	Fisher	..... G06Q 20/327 455/410
2006/0287920	A1 *	12/2006	Perkins	.....	G06Q 30/02 707/999.107	2008/0051142	A1 *	2/2008	Calvet	..... H04W 88/02 455/558
2006/0294025	A1 *	12/2006	Mengerink	.....	G06Q 30/0601 705/77	2008/0052192	A1 *	2/2008	Fisher	..... G06Q 10/02 705/5
2007/0004391	A1	1/2007	Maffeis			2008/0052233	A1 *	2/2008	Fisher	..... G06Q 20/327 705/40
2007/0011099	A1 *	1/2007	Sheehan	.....	G06Q 20/322 705/65	2008/0059329	A1 *	3/2008	Luchene	..... G06Q 30/0603 705/26.81
2007/0021969	A1 *	1/2007	Homeier-Beals	.....	G06Q 20/326 705/16	2008/0116264	A1	5/2008	Hammad et al.	
2007/0022058	A1 *	1/2007	Labrou	.....	G06Q 20/322 705/67	2008/0126145	A1 *	5/2008	Rackley, III	..... G06Q 20/102 455/406

(56)

## References Cited

## U.S. PATENT DOCUMENTS

- 2008/0133336 A1\* 6/2008 Altman ..... H04W 4/21  
705/14.1
- 2008/0139155 A1 6/2008 Boireau
- 2008/0140520 A1\* 6/2008 Hyder ..... G06Q 30/0207  
705/14.1
- 2008/0148040 A1\* 6/2008 Machani ..... G06F 21/6245  
713/193
- 2008/0167017 A1\* 7/2008 Wentker ..... G06Q 30/0224  
455/406
- 2008/0167961 A1\* 7/2008 Wentker ..... G06Q 20/3278  
705/14.25
- 2008/0167988 A1\* 7/2008 Sun ..... G06Q 20/3278  
455/406
- 2008/0172274 A1\* 7/2008 Hurowitz ..... H04L 67/61  
455/433
- 2008/0172285 A1\* 7/2008 Hurowitz ..... G06Q 30/02  
725/23
- 2008/0172291 A1\* 7/2008 Hurowitz ..... G06Q 30/02  
705/14.1
- 2008/0172292 A1\* 7/2008 Hurowitz ..... G06Q 30/02  
725/23
- 2008/0177668 A1 7/2008 Delean
- 2008/0207234 A1\* 8/2008 Arthur ..... G07F 17/16  
455/466
- 2008/0208681 A1 8/2008 Hammad
- 2008/0208743 A1\* 8/2008 Arthur ..... G06Q 40/00  
705/41
- 2008/0208744 A1\* 8/2008 Arthur ..... G06Q 20/32  
705/41
- 2008/0208762 A1\* 8/2008 Arthur ..... G06Q 20/20  
705/79
- 2008/0221997 A1\* 9/2008 Wolfe ..... G06Q 30/02  
705/14.39
- 2008/0242274 A1\* 10/2008 Swanburg ..... H04L 67/306  
455/414.1
- 2008/0249938 A1\* 10/2008 Drake-Stoker ..... H04W 12/106  
726/2
- 2008/0255947 A1\* 10/2008 Friedman ..... G06Q 20/327  
455/414.2
- 2008/0262928 A1\* 10/2008 Michaelis ..... G06Q 30/02  
705/14.39
- 2008/0274794 A1\* 11/2008 Mathieson ..... G06Q 30/02  
463/25
- 2008/0275779 A1\* 11/2008 Lakshminarayanan .....  
G06Q 20/325  
705/39
- 2008/0305774 A1 12/2008 Ramakrishna
- 2009/0000618 A1 1/2009 Hameen-Anttila
- 2009/0018913 A1\* 1/2009 Sarukkai ..... H04M 3/53383  
705/14.56
- 2009/0061884 A1\* 3/2009 Rajan ..... G06Q 30/0225  
455/445
- 2009/0063312 A1\* 3/2009 Hurst ..... G06Q 20/40  
705/41
- 2009/0075592 A1 3/2009 Nystrom et al.
- 2009/0076912 A1\* 3/2009 Rajan ..... G06Q 30/0267  
705/14.64
- 2009/0098825 A1 4/2009 Huomo
- 2009/0106112 A1\* 4/2009 Dalmia ..... G06Q 40/12  
709/204
- 2009/0112747 A1\* 4/2009 Mullen ..... G06Q 40/02  
705/35
- 2009/0124234 A1\* 5/2009 Fisher ..... H04B 5/0031  
455/406
- 2009/0132362 A1\* 5/2009 Fisher ..... G06Q 30/06  
705/16
- 2009/0143104 A1\* 6/2009 Loh ..... G06Q 20/352  
340/10.1
- 2009/0144161 A1\* 6/2009 Fisher ..... G06Q 20/3821  
705/16
- 2009/0177587 A1\* 7/2009 Siegal ..... G06Q 20/10  
705/67
- 2009/0227281 A1\* 9/2009 Hammad ..... G06K 19/07309  
340/10.1
- 2010/0057619 A1\* 3/2010 Weller ..... G06Q 20/04  
455/414.1
- 2010/0063895 A1\* 3/2010 Dominguez ..... G06Q 20/40  
705/26.1
- 2010/0082491 A1\* 4/2010 Rosenblatt ..... G06Q 20/10  
705/13
- 2010/0145835 A1\* 6/2010 Davis ..... G06Q 20/1085  
705/30
- 2010/0312694 A1\* 12/2010 Homeier-Beals ..... G06Q 30/02  
705/39
- 2011/0055038 A1\* 3/2011 Mengerink ..... G06Q 20/085  
705/26.1
- 2011/0320316 A1\* 12/2011 Randazza ..... G06Q 30/0617  
705/26.43
- 2012/0030044 A1\* 2/2012 Hurst ..... G06Q 20/326  
705/16
- 2012/0150744 A1\* 6/2012 Carlson ..... G06Q 20/12  
705/44
- 2012/0215573 A1\* 8/2012 Sussman ..... H04L 43/0894  
705/5
- 2012/0220314 A1\* 8/2012 Altman ..... H04L 67/306  
455/456.3
- 2012/0265677 A1\* 10/2012 Rackley, III ..... G06Q 20/325  
705/41
- 2013/0013501 A1\* 1/2013 Rackley, III ..... G06Q 20/32  
705/41
- 2013/0054470 A1\* 2/2013 Campos ..... G06Q 20/36  
705/67
- 2013/0212016 A1\* 8/2013 Davis ..... G06Q 40/12  
705/42
- 2015/0012440 A1 1/2015 Kelley

## FOREIGN PATENT DOCUMENTS

WO WO2006/114601 11/2006  
WO WO 2007/129081 11/2007

## OTHER PUBLICATIONS

U.S. Appl. No. 14/253,648 Notice Of Allowance dated Sep. 10, 2020, 9 p.  
 "Mobile App" [https://en.m.wikipedia.org/wiki/Mobile\\_app#Types](https://en.m.wikipedia.org/wiki/Mobile_app#Types).  
 "Difference between Native Apps and Web Apps" <https://www.geeksforgeeks.org/difference-between-native-apps-and-web-apps/>.  
 "Mobile App or Website" <https://vwo.com/blog/10-reasons-mobile-apps-are-better/>.  
 U.S. Appl. No. 90/019,135, filed Nov. 23, 2022, Fisher.  
 U.S. Appl. No. 90/019,134, filed Nov. 23, 2022, Fisher.  
 U.S. Appl. No. 15/076,578, Board Decision dated Mar. 2, 2020.  
 U.S. Appl. No. 15/076,578 Notice Of Allowance dated Jun. 17, 2020.  
 U.S. Appl. No. 14/253,648 Board Decision dated May 13, 2020.  
 U.S. Appl. No. 14/253,648 Notice Of Allowance dated Sep. 18, 2020.  
 "Text Messaging" [https://en.m.wikipedia.org/wiki/Text\\_messaging](https://en.m.wikipedia.org/wiki/Text_messaging).  
 "Text Based User Interface" [https://en.wikipedia.org/wiki/User\\_interface](https://en.wikipedia.org/wiki/User_interface).  
 "WAP" [https://en.wikipedia.org/wiki/Wireless\\_Application\\_Protocol](https://en.wikipedia.org/wiki/Wireless_Application_Protocol).  
 "Multimedia messaging" [https://en.wikipedia.org/wiki/Multimedia\\_Messaging\\_Service#Technical\\_description](https://en.wikipedia.org/wiki/Multimedia_Messaging_Service#Technical_description).  
 Web based user interface [https://en.wikipedia.org/wiki/User\\_interface](https://en.wikipedia.org/wiki/User_interface).  
 Ajax <https://techterms.com/definition/ajax>.  
 Java script <https://techterms.com/definition/javascript>.  
 "Browser games" [www.60freegames.com/Free-to-Play/Browser-Games](http://www.60freegames.com/Free-to-Play/Browser-Games).  
 "Text-based games" [https://en.wikipedia.org/wiki/Text-based\\_game](https://en.wikipedia.org/wiki/Text-based_game).  
 "Online shopping" [https://en.wikipedia.org/wiki/Online\\_shopping](https://en.wikipedia.org/wiki/Online_shopping).  
 "Social networking services" [https://en.wikipedia.org/wiki/Social\\_networking\\_service](https://en.wikipedia.org/wiki/Social_networking_service).

(56)

**References Cited**

OTHER PUBLICATIONS

“Web mapping” [https://en.wikipedia.org/wiki/Web\\_mapping](https://en.wikipedia.org/wiki/Web_mapping).

“Mobile browser” [https://en.wikipedia.org/wiki/Mobile\\_browser](https://en.wikipedia.org/wiki/Mobile_browser).

“Voice browser” [https://en.wikipedia.org/wiki/Voice\\_browser](https://en.wikipedia.org/wiki/Voice_browser).

“Email” <https://techterms.com/definition/email>.

“Web mail” <https://en.wikipedia.org/wiki/Webmail> ).

“WAP Browser” [https://en.m.wikipedia.org/wiki/Wireless\\_Application\\_Protocol](https://en.m.wikipedia.org/wiki/Wireless_Application_Protocol).

“Binary application” [https://en.m.wikipedia.org/wiki/Application\\_binary\\_interface](https://en.m.wikipedia.org/wiki/Application_binary_interface).

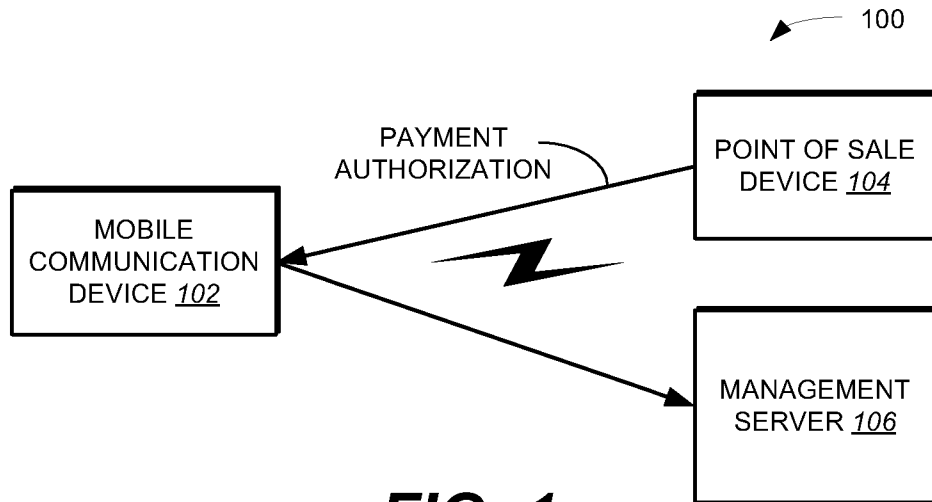
IPR2021-01529.

PTAB Decision Denying institution of IPR2021-01529.

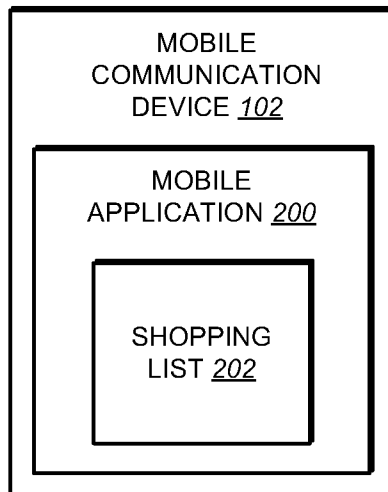
IPR2021-01530.

PTAB Decision Denying institution of IPR2021-01530.

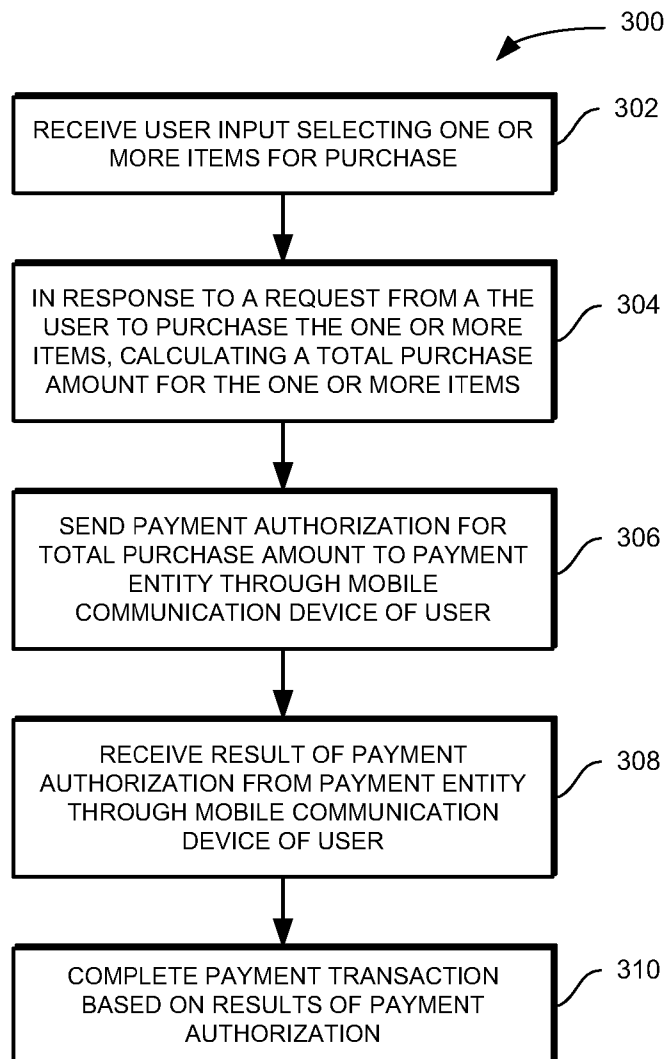
\* cited by examiner



**FIG. 1**



**FIG. 2**



**FIG. 3**



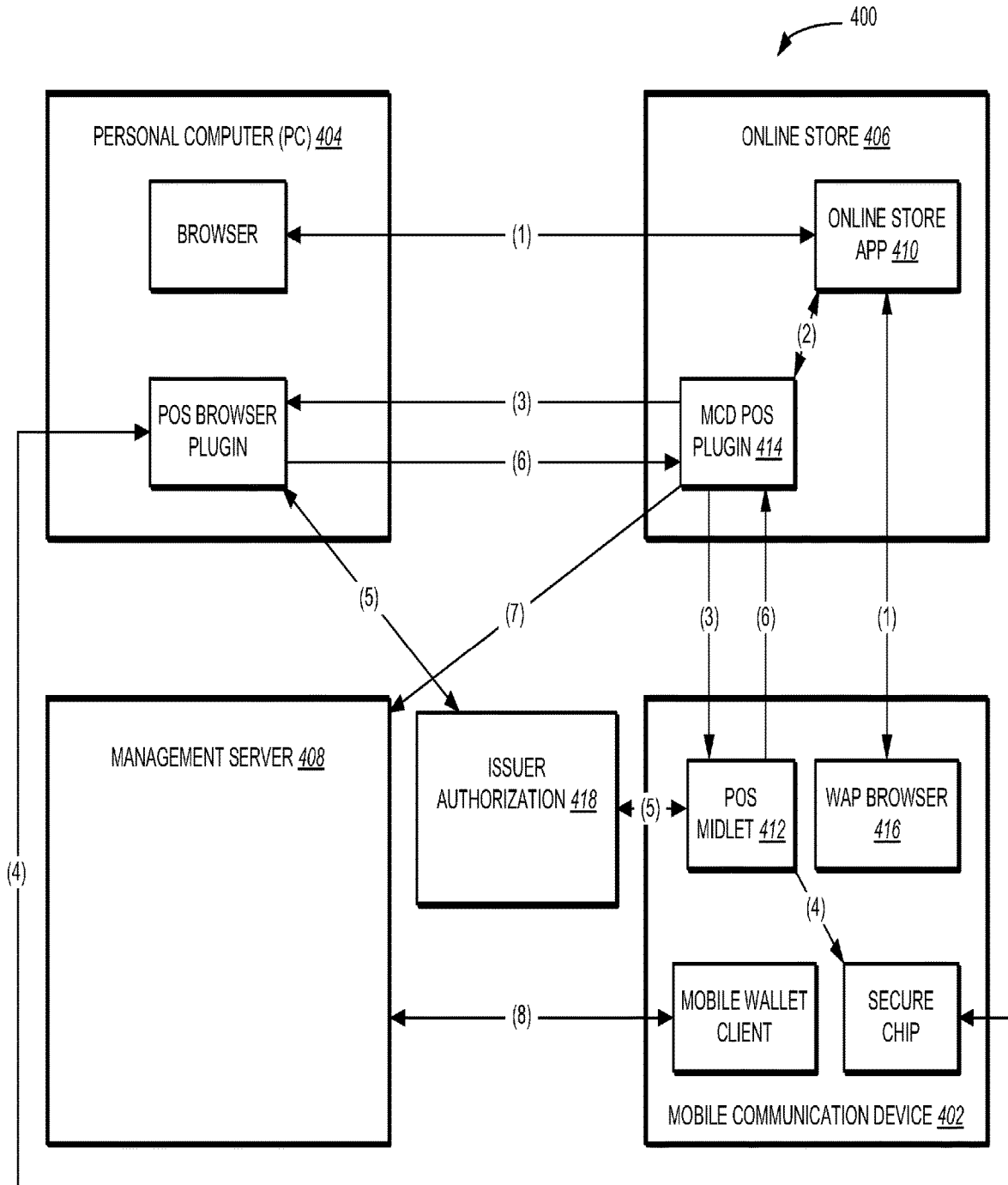
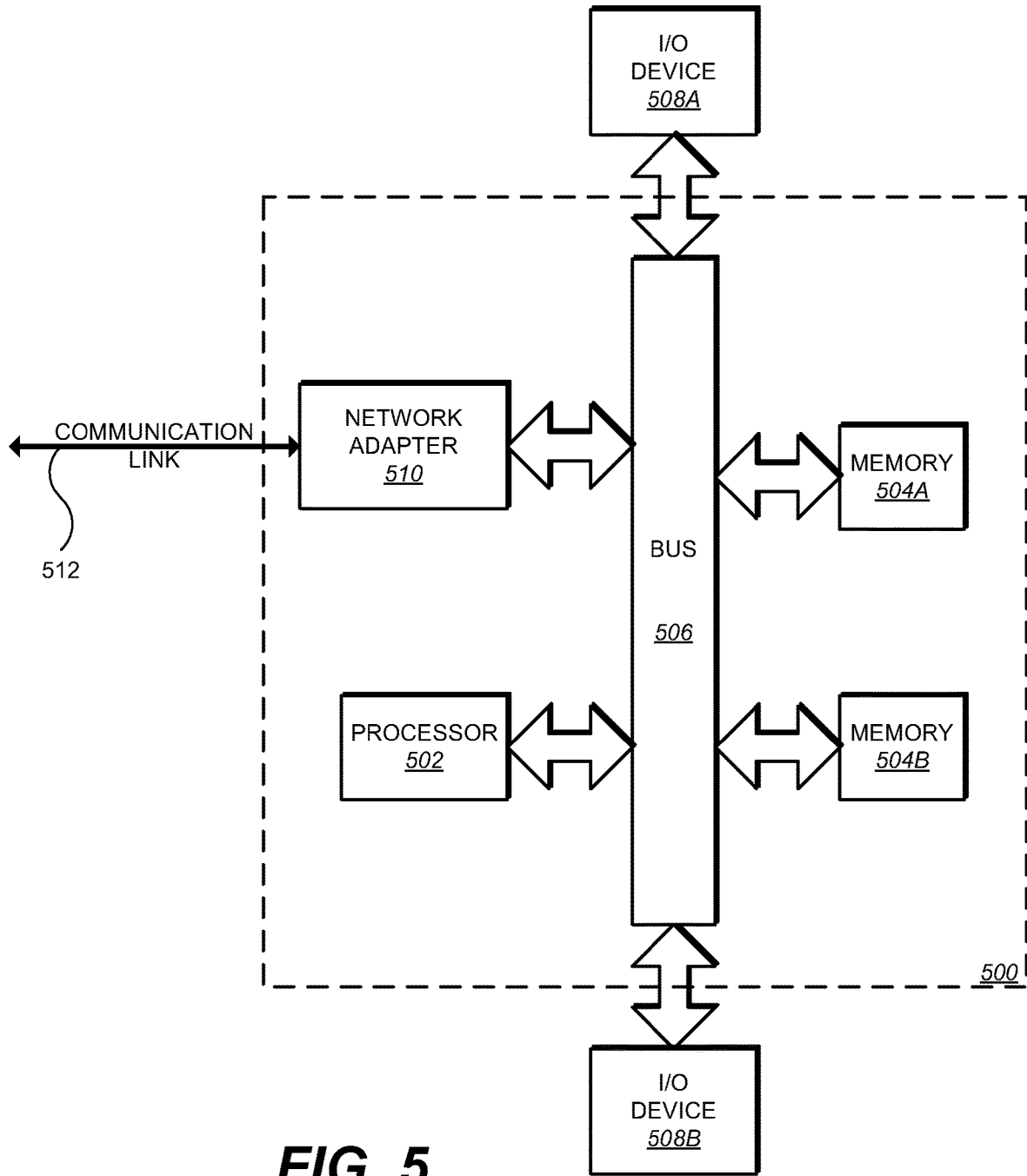


FIG. 4



**FIG. 5**

## BLAZE REMOTE MANAGEMENT SERVER FOR DOWNLOADING A DIGITAL PRODUCT

### CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a continuation and claims priority to U.S. patent application Ser. No. 16/913,263 filed Jun. 26, 2020, titled, "METHOD AND SYSTEM FOR PURCHASING A PRODUCT USING A NON-BROWSER BASED APPLICATION" which is a continuation and claims priority to U.S. patent application Ser. No. 15/076,578 filed Mar. 21, 2016, titled, "REMOTE TRANSACTION PROCESSING USING A MOBILE DEVICE" now U.S. Pat. No. 10,699,259 which is a continuation and claims priority to U.S. patent application Ser. No. 14/083,344 filed Nov. 18, 2013, titled, "REMOTE TRANSACTION PROCESSING AT A SERVER FROM A LIST USING A PAYMENT METHOD" now U.S. Pat. No. 9,311,659, issued on Apr. 12, 2016 which is a continuation and claims priority to U.S. patent application Ser. No. 13/735,337, filed Jan. 7, 2013, titled REMOTE TRANSACTION PROCESSING USING AUTHENTICATION INFORMATION now U.S. Pat. No. 8,620,754, issued on Dec. 31, 2013, which is a continuation and claims priority to U.S. patent application Ser. No. 11/948,903, filed Nov. 30, 2007, titled METHOD AND SYSTEM FOR CONDUCTING AN ONLINE PAYMENT TRANSACTION USING A MOBILE COMMUNICATION DEVICE, now U.S. Pat. No. 8,352,323, issued on Jan. 8, 2013, both of which are incorporated by reference herein in their entirety.

### FIELD OF INVENTION

The present invention relates to data communications and wireless devices.

### BACKGROUND OF THE INVENTION

Mobile communication devices—e.g., cellular phones, personal digital assistants, and the like—are increasingly being used to conduct payment transactions as described in U.S. patent application Ser. No. 11/933,351, entitled "Method and System For Scheduling A Banking Transaction Through A Mobile Communication Device", and U.S. patent application Ser. No. 11/467,441, entitled "Method and Apparatus For Completing A Transaction Using A Wireless Mobile Communication Channel and Another Communication Channel, both of which are incorporated herein by reference. Such payment transactions can include, for example, purchasing goods and/or services, bill payments, and transferring funds between bank accounts.

### BRIEF SUMMARY OF THE INVENTION

In general, this specification describes a method and system for conducting an online payment transaction through a point of sale device. The method includes receiving input from a user selecting an item for purchase through the point of sale device; calculating a total purchase amount for the item in response to a request from the user to purchase the item; and sending payment authorization for the total purchase amount from the point of sale device to a payment entity, in which the payment authorization is sent to the payment entity via a mobile communication device of the user. The method further includes receiving a result of the payment authorization from the payment entity through

the mobile communication device; and completing the payment transaction based on the result of the payment authorization.

Particular implementations can include one or more of the following features. The point of sale device can be a desktop computer, a laptop computer, or a terminal. The mobile communication device can be a cellular phone, a wireless personal digital assistant (PDA), or a laptop computer. The cellular phone can be an NFC-enabled phone. Sending payment authorization for the total purchase amount from the point of sale device to a payment entity can include sending the payment authorization securely to the payment entity. The payment entity can be a person, a computer system, or a bank. The method can further include maintaining a shopping list on the mobile communication device of the user, in which the shopping list includes a listing of one or more items to be purchased by the user. The payment authorization can be an authorization for payment with a credit card, a debit card, or a prepaid card.

The details of one or more implementations are set forth in the accompanying drawings and the description below. Other features and advantages will be apparent from the description and drawings, and from the claims.

### BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 illustrates a block diagram of a communication system including a wireless mobile communication device and a management server in accordance with one implementation.

FIG. 2 illustrates one implementation of the wireless mobile communication device of FIG. 1.

FIG. 3 is a method for conducting a payment transaction using a point of sale device in accordance with one implementation.

FIG. 4 illustrates a block diagram of a communication system including a wireless mobile communication device and an online store in accordance with one implementation.

FIG. 5 is a block diagram of a data processing system suitable for storing and/or executing program code in accordance with one implementation.

Like reference symbols in the various drawings indicate like elements.

### DETAILED DESCRIPTION OF THE INVENTION

FIG. 1 illustrates one implementation of a communication system 100. The communication system 100 includes a hand-held, wireless mobile communication device 102 a point-of-sale device 104 and a management server 106. In one implementation, the mobile communication device 102 includes a mobile application (discussed in greater detail below) that permits a user of the mobile communication device 102 to conduct payment transactions. Payment transactions can include, for example, using contactless payment technology at a retail merchant point of sale (e.g., through point of sale device 104), using mobile/internet commerce (e.g., purchase tickets and products, etc.), storage of payment information and other digital artifacts (e.g., receipts, tickets, coupons, etc.), storage of banking information (payment account numbers, security codes, PIN's, etc.), and accessing banking service (account balance, payment history, bill pay, fund transfer, etc.), and so on. The mobile communication device 102 can be a cellular phone, a wireless personal digital assistant (PDA), a laptop computer, or other wireless communication device. The point of sale

device **104** can be a desktop computer, laptop computer, terminal, or other device that is configured to receive user input selecting items for purchase or other transaction.

In one implementation, authorizations for payment transactions that are made through the point of sale device **104** are sent from the point of sale device **104** to an issuer authorization (e.g., management server **106**) through the mobile communication device **102** (as shown in FIG. 1). In one implementation, an issuer authorization is a payment entity that either approves or disapproves a payment transaction. An issuer authorization can be, e.g., a person, computer system, bank (or other third party). One potential benefit of having payment authorizations flow through the mobile communication device **102** is that sensitive user information (e.g. account numbers, pin numbers, and/or identity information) need only be sent from the mobile communication device **102** directly to an issuer authorization. Such operation reduces the potential for identity theft and/or fraudulent purchases made through a point of sale device. For example, (in one implementation) payment authorizations cannot be sent to an issuer authorization if the mobile communication device **102** is turned off.

FIG. 2 illustrates one implementation of the mobile communication device **102**. The mobile communication device **102** includes a mobile application **200** that (in one implementation) is provided to the mobile communication device **102** through a remote server (e.g., management server **106**). In one implementation, the mobile application is a Mobile Wallet application available from Mobile Candy Dish, Inc., of Alameda, Calif. In one implementation, the mobile application is a hosted service, as described in U.S. patent application Ser. No. 11/939,821, entitled "Method and System For Securing Transactions Made Through a Mobile Communication Device", which is incorporated herein by reference. In one implementation, the mobile application **200** is configured to send requests to the management server for artifacts based on user input, e.g., received through a keypad (not shown) of the mobile communication device **102**. Requests to the management server **106** can also be automated, via proximity-based services, e.g., consumer tapping (or in close proximity) an LBS/contactless/RFID enabled phone against a smart poster (RFID/Bluetooth/LBS enabled, etc.), kiosk, or other device.

In one implementation, the mobile application **200** running on the mobile communication device **102** is configured to receive artifacts (e.g., advertisements, receipts, tickets, coupons, media, content, and so on) from the management server **106**. In one implementation, the management server **106** sends artifacts to the mobile application based on user profile information and/or a transaction history (or payment trends) associated with a user of the mobile communication device **102** as described in U.S. patent application Ser. No. 11/944,267, entitled "Method and System For Delivering Information To a Mobile Communication Device Based On Consumer Transactions", which is incorporated herein by reference.

In one implementation, the mobile communication device **102** is an NFC-enabled phone. The mobile communication device **102** can be NFC-enabled, for example, through an embedded chip or a sticker that is affixed to the cellular phone, as described in U.S. application Ser. No. 11/933,321, entitled "Method and System For Adapting a Wireless Mobile Communication Device For Wireless Transactions", which is incorporated herein by reference. In one implementation, the NFC chip (or sticker) on the cellular phone can be used in conjunction with a merchant's point of sale device as described in greater detail below.

For example, with reference to FIG. 4, in one implementation, the NFC chip (or sticker) on the cellular phone can communicate with NFC chips that are installed on the front of PC's (TV's, Kiosks, or any other device) and serve as scanners/readers. In this implementation a mobile candy dish applet (e.g., MCD POS plugin **414**) is installed on the consumer's computer (e.g., PC **404**) which interfaces with the NFC chip on the PC. When a consumer (or user) is shopping online and they are ready to pay for their products, the consumer opens his mobile wallet and selects one of the payment methods (e.g., credit card, debit card, prepaid card, etc.) from their mobile wallet. If a default card has been selected already, this step is not necessary. The consumer then waves their phone over the NFC reader present on the PC **404**. The consumer's payment credentials are transferred from the phone to the merchant website (e.g., online store application **410**) using a communication protocol between the chip in the phone and the chip in the PC, which can be radio frequency for example. If the consumer has coupons in their mobile wallet the consumer can either elect to manually apply the coupon, save the coupon for a future use (against a larger purchase for example), or have the coupon automatically applied during the transaction and the transaction amount is updated. After the consumer enters any necessary validation information (e.g., pin) to provide a multi-factor authentication and confirms the transaction, the online purchase is processed as normal by the merchant's online processor. The mobile wallet can retrieve transaction data, account balance from the management server **408**.

In one implementation, the mobile communication device **102** is a non NFC-enabled phone. In this implementation, the consumer connects his phone to the PC **404** via some non radio frequency method (e.g., IR, Bluetooth, USB cable, etc.). When a consumer is shopping online and they are ready to pay for their products, the consumer opens his mobile wallet and selects one of the payment methods (e.g., credit card, debit card, prepaid card, etc.) from their mobile wallet. If a default card has been selected already, this step is not necessary. The consumer then pushes, e.g., a "Buy now" button and the consumer's payment credentials are transferred from the phone to the merchant website (e.g., online store application **410**) using the protocol between the phone and the PC **404** which can be radio frequency, for example. If the consumer has coupons in their mobile wallet the consumer can either elect to manually apply the coupon, save the coupon for a future use, or have the coupon automatically applied during the transaction and the transaction amount is updated. After the consumer enters any necessary validation information (e.g., pin) to provide multi-factor authentication and confirms the transaction, the online purchase is processed as normal by the merchant's online processor. The mobile wallet can retrieve transaction data and account balance from the management server **408**.

In one implementation, the management server **408** and merchant portal (e.g., online store **408**) are maintained by trusted parties and use an encrypted tunnel to transfer financial data. When the consumer is ready to pay for their online product, they enter their cell phone number on the merchant portal. The merchant portal (which has an MCD applet (e.g., MCD POS plugin **414**) installed on its server) securely connects to the management server **408** (that in one implementation is maintained by Mobile Candy Dish (MCD)). In one implementation, the management server **408** identifies the consumer through their cell phone number, and verifies the consumer's authenticity by sending a unique transaction code to the consumer mobile wallet on their cell phone. The consumer then enters this unique transaction

code onto the merchant's web portal. The merchant portal sends this transaction number to the management server **408** for authentication. Upon authentication, the consumer's virtual wallet and payment methods (e.g., credit card, debit card, prepaid card, etc.) are securely retrieved from the management server **408** and are displayed to the consumer in a window on a website associated with the merchant portal. The consumer selects one of these payment methods to pay for their transaction. If a default card has been selected already, this step is not necessary. If the consumer has coupons in their mobile wallet the consumer can either elect to manually apply the coupon, save the coupon for a future use, or have the coupon automatically applied during the transaction and the transaction amount is updated. After the consumer enters any necessary validation information to provide a multi-factor authentication and confirms the transaction, the online purchase is processed as normal by the merchant's online processor. The mobile wallet can retrieve transaction data, account balance from the management server **408**.

Referring to FIG. 2, in one implementation, the mobile application **200** maintains a shopping list **202** for a consumer. Accordingly, consumers have the ability to store their shopping list in their mobile wallet and add, delete, or change items on their shopping list either in offline or online mode. In one implementation, consumers are sent coupons based on items on their shopping list, preferences, previous shopping history, proximity to the physical retail store, or a combination of these parameters, as discussed in application Ser. No. 11/944,267, which is incorporated by reference above. If the consumer has coupons in their mobile wallet the consumer can either elect to manually apply the coupon, save the coupon for a future use, or have the coupon automatically applied during the transaction and the transaction amount is updated. When a consumer wants to order the items on their shopping list via an on online merchant (in contrast to a physical retail store), the consumer can logon to the merchant portal and electronically transmit their shopping list to the merchant portal either by waving their phone over NFC enabled PC's or some other connection such as IR, bluetooth, USB, or the like.

FIG. 3 illustrates a method **300** for conducting a payment transaction using a point of sale device (e.g., point of sale device **104**). User input is received selecting one or more items for purchase (e.g., at the point of sale device) (step **302**). In general, the transaction being made at the point of sale device can be any type of transaction that involves the exchange or transfer of funds—e.g., the transaction can be a payment transaction, a fund transfer, or other type of transaction. In response to a request from the user to purchase the one or more items, a total purchase amount for the one or more items is calculated (e.g., by the point of sale device) (step **304**). If the user has coupons in their mobile wallet the user can either manually apply the coupon or have the coupon automatically applied during the transaction and the transaction amount is updated. The user request to purchase an item can be received, e.g., by a user clicking on a "buy now" icon that is displayed on a graphical user interface of the point of sale device. Payment authorization for the total purchase amount is sent to a payment entity through a mobile communication device of the user (step **306**). A result of the payment authorization is received at the point of sale device from the payment entity via the mobile communication device (step **308**). The payment transaction is completed based on the result of the payment authorization (step **310**). If the payment transaction was authorized by the payment entity, then the sale of the items through the

point of sale device is completed. Otherwise, if the payment transaction was not authorized by the payment entity, then the point of sale device terminates the payment transaction.

FIG. 4 illustrates an example payment transaction being made in a communication system **400** in accordance with one implementation. The communication system **400** includes a mobile communication device **402**, a personal computer (PC) **404**, an online store **406**, and a core (or datastore) **408**. As indicated by interaction (1), a user (or customer), using a phone (e.g., mobile communication device **402** or personal computer **404**), browses an online store website (online store application **410**) and finds an item that the customer wishes to purchase. This could also be a purchase made through a midlet application (POS midlet **412**) residing on the mobile communication device **402**. The user then goes to, e.g., a checkout of the online store **406** make a purchase. If the user has coupons in their mobile wallet the user can either manually apply the coupon or have the coupon automatically applied during the transaction and the transaction amount is updated. When it comes time to authorize the purchase, (in one implementation) the user is given an option to purchase with the mobile communication device **402**. In one implementation, the mobile communication device **402** is an NFC-equipped phone (or NFC phone).

In interaction (2), when the user chooses to purchase with the mobile communication device **402**, the online store application **410** sends the transaction information for authorization to the POS vendor plugin (e.g., MCD POS plugin **414**). In one implementation, the POS vendor plugin is installed in the merchant's online store and enables the merchant to accept MCD Blaze payments as an alternative form of payment, similar to accepting credit cards for payment. As shown by interaction (3), the POS vendor plugin formats, encrypts, and cryptographically signs the purchase authorization request which is sent via a secure SSL link (e.g., HTTPS, Bluetooth, IR, USB, or other suitable protocol) established by the browser/web application **416** back to the mobile communication device **402**. As with the first scenario, all communications is over secure channels. (It may be required that the mobile wallet application be opened prior to beginning a phone online purchase.) The POS midlet **412** is a component of the mobile wallet application that executes PayPass or other payment authorization protocol between itself and the SE payment applications on the mobile communication device **402** (interaction (4)). The results of the request are sent back to the POS vendor plugin.

As shown by interaction (5), the POS midlet **412** then forwards the properly formatted authorization request to a payment entity (e.g., issuer authorization **418**) for authorization. The results of the request are then sent back to the POS component of the mobile wallet. Through interaction (6), the POS midlet **412** then forwards the results back to the MCD POS plugin **414** to complete the purchase. The MCD POS plugin **414** then forwards the purchase transaction information to the management server **408** for later customer viewing (interaction (7)). As indicated by interaction (8), users (or customers) will then be able to query the management server **408** and immediately obtain purchase information, either by phone or PC.

One or more of method steps described above can be performed by one or more programmable processors executing a computer program to perform functions by operating on input data and generating output. Generally, the invention can take the form of an entirely hardware embodiment, an entirely software embodiment or an embodiment containing

both hardware and software elements. In one implementation, the invention is implemented in software, which includes but is not limited to firmware, resident software, microcode, etc. Furthermore, the invention can take the form of a computer program product accessible from a computer-usable or computer-readable medium providing program code for use by or in connection with a computer or any instruction execution system. For the purposes of this description, a computer-usable or computer readable medium can be any apparatus that can contain, store, communicate, propagate, or transport the program for use by or in connection with the instruction execution system, apparatus, or device. The medium can be an electronic, magnetic, optical, electromagnetic, infrared, or semiconductor system (or apparatus or device) or a propagation medium. Examples of a computer-readable medium include a semiconductor or solid state memory, magnetic tape, a removable computer diskette, a random access memory (RAM), a read-only memory (ROM), a rigid magnetic disk and an optical disk. Current examples of optical disks include compact disk-read only memory (CD-ROM), compact disk-read/write (CD-R/W) and DVD.

FIG. 5 illustrates a data processing system 500 suitable for storing and/or executing program code. Data processing system 500 includes a processor 502 coupled to memory elements 504A-B through a system bus 506. In other implementations, data processing system 500 may include more than one processor and each processor may be coupled directly or indirectly to one or more memory elements through a system bus. Memory elements 504A-B can include local memory employed during actual execution of the program code, bulk storage, and cache memories that provide temporary storage of at least some program code in order to reduce the number of times the code must be retrieved from bulk storage during execution. As shown, input/output or I/O devices 508A-B (including, but not limited to, keyboards, displays, pointing devices, etc.) are coupled to data processing system 500. I/O devices 508A-B may be coupled to data processing system 500 directly or indirectly through intervening I/O controllers (not shown).

In one implementation, a network adapter 510 is coupled to data processing system 500 to enable data processing system 500 to become coupled to other data processing systems or remote printers or storage devices through communication link 512. Communication link 512 can be a private or public network. Modems, cable modems, and Ethernet cards are just a few of the currently available types of network adapters.

Although the present invention has been particularly described with reference to implementations discussed above, various changes, modifications and substitutes are can be made. Accordingly, it will be appreciated that in numerous instances some features of the invention can be employed without a corresponding use of other features. Further, variations can be made in the number and arrangement of components illustrated in the figures discussed above.

What is claimed is:

1. A method for downloading a product, comprising:  
 maintaining a payment method at a remote management server;  
 transmitting a list of products from the remote management server to a non-browser based application for display on a mobile device using the non-browser based application, wherein the non-browser based application is a mobile operating system based application with a graphical user interface including a

graphical icon that is preinstalled or downloaded and installed on the mobile device, the mobile device including a mobile device display, a mobile device processor, a mobile device wireless radio transceiver that supports voice and data interactions through a first wireless communication channel, and a mobile device wireless fidelity (Wi-Fi) transceiver;  
 receiving, at the remote management server, an identification of the product selected from the list of products from the non-browser based application, wherein the non-browser based application receives the identification of the product selected from the list of products through user input via the mobile device display of the mobile device;  
 receiving, at the remote management server, a transaction purchase request for the product selected from the list of products from the non-browser based application, wherein the non-browser based application receives the transaction purchase request through the user input via the mobile device display of the mobile device;  
 after receiving the transaction purchase request from the non-browser based application, receiving, at the remote management server, user input login information including information related to a userID from the non-browser based application;  
 authenticating, at the remote management server, the user based on the user input login information;  
 after the user authentication, transmitting, from the remote management server, the payment method that corresponds to the userID to a transaction server which processes the transaction using the payment method that corresponds to the userID;  
 downloading, the product from the remote management server to the mobile device; and  
 transmitting a digital artifact from the remote management server to the non-browser based application.  
 2. The method of claim 1, where the payment method includes information related to a credit card number, information related to a debit card number, or information related to a prepaid card number.  
 3. The method of claim 1, further wherein no sensitive data is stored on the mobile device and further wherein the sensitive data comprises information related to the payment method.  
 4. The method of claim 1, further wherein the user login information includes information related to a password.  
 5. The method of claim 1, further, wherein the user input login information includes information related to biometric data.  
 6. The method of claim 1, further wherein the transmission of the transaction purchase request is transmitted from the mobile device to the remote management server without using a point-of-sale device, wherein the transmission of the transaction purchase request directly to the remote management server reduces the potential for identity theft or fraudulent purchases made through the point-of-sale device.  
 7. The method of claim 1, wherein the remote management server is configured to store a single userID for a plurality of the user's mobile devices which means the remote management server scales.  
 8. The method of claim 1, wherein the digital artifact is media, content, ticket, receipt, advertisement, or a coupon.  
 9. The method of claim 1, further wherein the non-browser based application displays the digital artifact while the mobile device maintains a connection to a wireless network; and

further comprises:

losing the connection of the mobile device to the wireless network while the non-browser based application displays the digital artifact; and

in an offline mode, after losing the connection, continuing to display the digital artifact within the non-browser based application.

10. The method of claim 1, further wherein the digital artifact is stored in the mobile device memory to improve the mobile device performance.

11. The method of claim 1, further wherein the non-browser based application triggers a call to action using metadata associated with the digital artifact and further wherein the call to action comprises redeeming a coupon, entering an email address, accepting a coupon, accepting a reward, receiving alerts, or receiving notifications.

12. The method of claim 1, further wherein the non-browser based application is stored in a local mobile device memory during execution of the non-browser based application, a bulk storage mobile device memory for when the non-browser based application is not being executed, and a cache mobile device memory to provide temporary storage of at least some non-browser based application in order to reduce the number of times the non-browser based application must be retrieved from the bulk storage mobile device memory during the execution.

13. The method of claim 1, further wherein the non-browser based application sends a request to the remote management server for retransmission of the product if it has not received the product from the remote management server within a certain period of time.

14. A remote management server for downloading a product, comprising:

a remote management server transceiver that:

transmits a list of products from a remote management server to a non-browser based application for display on a mobile device using the non-browser based application stored on the mobile device, wherein the non-browser based application is a mobile operating system based application with a graphical user interface including a graphical icon that is preinstalled or downloaded and installed on the mobile device, the mobile device including a mobile device display, a mobile device processor, a mobile device radio wireless transceiver that supports voice and data interactions through a first wireless communication channel and a mobile device wireless fidelity (Wi-Fi) transceiver;

receives an identification of the product selected from the list of products from the non-browser based application, wherein the non-browser based application receives the identification of the product selected from the list of products through user input via the mobile device display of the mobile device;

receives a transaction purchase request for the product selected from the list of products from the non-browser based application wherein the non-browser based application receives the transaction purchase request through the user input via the mobile device display of the mobile device;

after receiving the transaction purchase request from the non-browser based application, receives user input login information including information related to a userID from the non-browser based application;

after the user authentication, transmits, from the remote management server, a payment method that corre-

sponds to the userID to a transaction server which processes the transaction using a payment method that corresponds to the userID;

downloads, the product to the mobile device; and transmits a digital artifact to the non-browser based application; and

a remote management server processor that authenticates the user based on the user input login information; and a remote management server memory that maintains the payment method.

15. The remote management server of claim 14, where the payment method includes information related to a credit card number, information related to a debit card number, or information related to a prepaid card number.

16. The remote management server of claim 14, further wherein no sensitive data is stored on the mobile device and further wherein the sensitive data comprises information related to the payment method.

17. The remote management server of claim 14, further wherein the user login information includes information related to a password.

18. The remote management server of claim 14 further, wherein the user input login information includes information related to biometric data.

19. The remote management server of claim 14, further wherein the transmission of the purchase request is transmitted from the mobile device to the remote management server without using a point-of-sale device, wherein the transmission of the purchase request directly to the remote management server reduces the potential for identity theft or fraudulent purchases made through the point-of-sale device.

20. The remote management server of claim 14, wherein the remote management server is configured to store a single userID for a plurality of the user's mobile devices which means the remote management server scales.

21. The remote management server of claim 14, wherein the digital artifact is media, content, ticket, receipt, advertisement, or coupon.

22. The remote management server of claim 14, further wherein the non-browser based application displays the digital artifact while the mobile device maintains a connection to a wireless network; and

further comprises:

losing the connection of the mobile device to the wireless network while the non-browser based application displays the digital artifact; and

in an offline mode, after losing the connection, continuing to display the digital artifact within the non-browser based application.

23. The remote management server of claim 14, further wherein the digital artifact is stored in the mobile device memory to improve the mobile device performance.

24. The remote management server of claim 14, further wherein the non-browser based application triggers a call to action using metadata associated with the digital artifact and further wherein the call to action comprises redeeming a coupon, entering an email address, accepting a coupon, accepting a reward, receiving alerts, or receiving notifications.

25. The remote management server of claim 14, further wherein the non-browser based application is stored in a local mobile device memory during execution of the non-browser based application, a bulk storage mobile device memory for when the non-browser based application is not being executed, and a cache mobile device memory to provide temporary storage of at least some non-browser based application in order to reduce the number of times the

non-browser based application must be retrieved from the bulk storage mobile device memory during the execution.

26. The remote management server of claim 14, further wherein the non-browser based application sends a request to the remote management server for retransmission of the product if it has not received the product from the remote management server within a certain period of time. 5

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