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(54) **PROVIDING COLLECTED PROFILES TO MEDIA PROPERTIES HAVING SPECIFIED INTERESTS**

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(58) **Field of Classification Search**
None

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,220,655	A	6/1993	Tsutsui
5,359,508	A	10/1994	Rossides

(Continued)

FOREIGN PATENT DOCUMENTS

CA	2246746	3/1998
KR	20010096343	11/2001

(Continued)

OTHER PUBLICATIONS

NPL—Bartell et al.—The MediaXact System—A Framework for Personalized Electronic Commerce Services, Bell Labs Technical Journal; Apr.-Jun. 1999 (Year: 1999).*

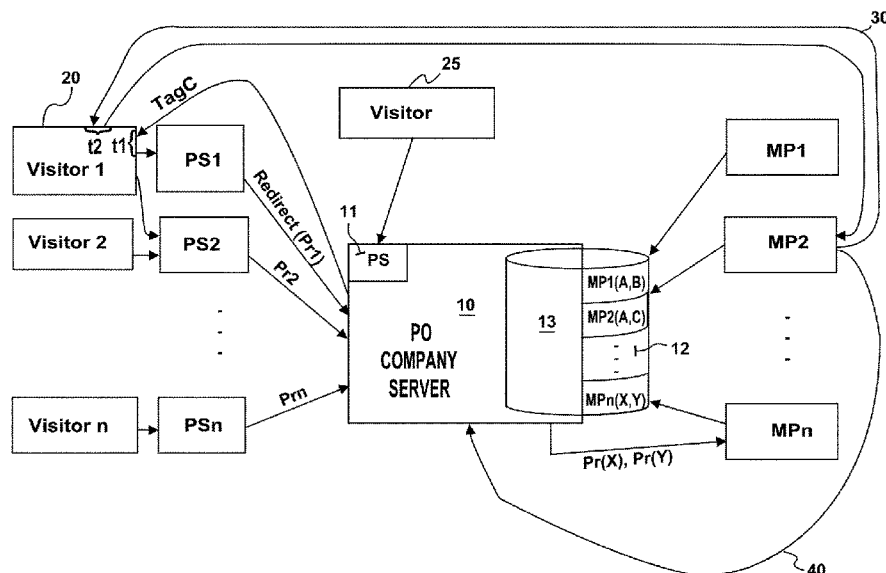
(Continued)

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(57) **ABSTRACT**

To improve monetization of electronic advertisement placement, a profile owner company operates an automatic system for identifying media properties that have interests in specific profiles or profiles of a specified category or kind. The profile owner recognizes a collected visitor profile as one that a media property has previously requested or one that is within a category that a media property has previously requested and arranges for the visitor to be tagged with a tag readable by the media property that requested such a profile. The media property can use the tag in displaying customized advertising to the visitor. Using information received from the media property, the profile owner company then records usage of the profile by the media property.



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(56) **References Cited**

U.S. PATENT DOCUMENTS

5,442,633	A	8/1995	Perkins et al.	6,983,379	B1	1/2006	Spalink et al.
5,572,643	A	11/1996	Judson	6,985,882	B1	1/2006	Del Sesto
5,710,884	A	1/1998	Dedrick	7,003,792	B1	2/2006	Yuen
5,717,923	A	2/1998	Dedrick	7,013,290	B2	3/2006	Ananian
5,724,424	A	3/1998	Gifford	7,038,637	B1	5/2006	Eller et al.
5,724,521	A	3/1998	Dedrick	7,039,594	B1	5/2006	Gersting
5,751,956	A	5/1998	Kirsch	7,039,599	B2	5/2006	Merriman et al.
5,752,238	A	5/1998	Dedrick	7,043,531	B1	5/2006	Seibel et al.
5,754,939	A	5/1998	Herz et al.	7,051,351	B2	5/2006	Goldman et al.
5,774,670	A	6/1998	Montulli	7,058,593	B1	6/2006	Merritt
5,794,210	A	8/1998	Goldhaber et al.	7,065,550	B2	6/2006	Raghunandan
5,819,092	A	10/1998	Ferguson et al.	7,072,853	B2	7/2006	Shkedi
5,819,285	A	10/1998	Damico et al.	7,085,682	B1	8/2006	Heller et al.
5,835,718	A	11/1998	Blewett	7,155,508	B2	12/2006	Sankuratripati et al.
5,848,396	A	12/1998	Gerace	7,181,438	B1	2/2007	Szabo
5,855,008	A	12/1998	Goldhaber et al.	7,188,076	B2	3/2007	Bensemana
5,870,546	A	2/1999	Kirsch	7,194,424	B2	3/2007	Greer et al.
5,870,550	A	2/1999	Wesinger, Jr. et al.	7,299,195	B1	11/2007	Tawakol et al.
5,901,287	A	5/1999	Bull et al.	7,343,354	B2	3/2008	Hennessey
5,918,014	A	6/1999	Robinson	7,346,615	B2	3/2008	Bem
5,933,811	A	8/1999	Angles et al.	7,356,711	B1	4/2008	Calinov et al.
5,937,390	A	8/1999	Hyodo	7,360,251	B2	4/2008	Spalink et al.
5,937,392	A	8/1999	Alberts	7,373,599	B2	5/2008	McElfresh et al.
5,948,061	A	9/1999	Merriman et al.	7,386,599	B1	6/2008	Piersol et al.
5,959,623	A	9/1999	van Hoff et al.	7,428,493	B2	9/2008	Shkedi
5,963,915	A	10/1999	Kirsch	7,454,364	B2	11/2008	Shkedi
5,999,912	A	12/1999	Wodarz et al.	7,546,249	B2	6/2009	Main
6,014,638	A	1/2000	Burge et al.	7,558,795	B2	7/2009	Malik
6,016,504	A	1/2000	Arnold et al.	7,580,855	B2	8/2009	Fernandes
6,026,368	A	2/2000	Brown et al.	7,693,863	B2	4/2010	Martin et al.
6,026,369	A	2/2000	Capek	7,698,422	B2	4/2010	Vanderhook et al.
6,026,374	A	2/2000	Chess	7,725,944	B2	5/2010	Spalink et al.
6,044,376	A	3/2000	Kurtzman, II	7,747,745	B2	6/2010	Shkedi
6,047,310	A	4/2000	Kamakura et al.	7,756,744	B2	7/2010	Schiff et al.
6,049,835	A	4/2000	Gagnon	7,788,358	B2	8/2010	Martino
6,055,513	A	4/2000	Katz et al.	7,805,332	B2	9/2010	Wilson
6,073,241	A	6/2000	Rosenberg et al.	7,822,637	B2	10/2010	Shkedi
6,128,663	A	10/2000	Thomas	7,822,639	B2	10/2010	Shkedi
6,134,532	A	10/2000	Lazarus et al.	7,861,260	B2	12/2010	Shkedi
6,141,010	A	10/2000	Hoyle	7,899,801	B1	3/2011	Bronson et al.
6,188,398	B1	2/2001	Collins-Rector et al.	7,930,252	B2	4/2011	Bender et al.
6,205,432	B1	3/2001	Gabbard et al.	7,930,253	B1	4/2011	Schoenhals
6,216,112	B1	4/2001	Fuller et al.	7,937,383	B2	5/2011	Hintze et al.
6,216,129	B1	4/2001	Eldering	7,966,647	B1	6/2011	Igoe et al.
6,285,987	B1	9/2001	Roth	7,979,307	B2	7/2011	Shkedi
6,289,318	B1	9/2001	Barber	8,036,929	B1	10/2011	Reisman
6,308,202	B1	10/2001	Cohn et al.	8,051,444	B2	11/2011	Shkedi
6,324,519	B1	11/2001	Eldering	8,086,491	B1	12/2011	Matz et al.
6,327,574	B1	12/2001	Kramer et al.	8,200,822	B1	6/2012	Shkedi
6,366,298	B1	4/2002	Haitsuka et al.	8,204,783	B2	6/2012	Shkedi
6,385,592	B1	5/2002	Angles et al.	8,239,264	B2	8/2012	Shkedi
6,401,075	B1	6/2002	Mason et al.	8,244,582	B2	8/2012	Shkedi
6,408,278	B1	6/2002	Carney et al.	8,244,583	B2	8/2012	Shkedi
6,415,270	B1	7/2002	Rackson et al.	8,244,586	B2	8/2012	Shkedi
6,415,322	B1	7/2002	Jaye	8,281,336	B2	10/2012	Shkedi
6,446,261	B1	9/2002	Rosser	8,494,904	B2	7/2013	Shkedi
6,449,657	B2	9/2002	Stanbach, Jr. et al.	8,566,164	B2	10/2013	Shkedi
6,484,492	B2	11/2002	Meholic et al.	8,595,069	B2	11/2013	Shkedi
6,487,538	B1	11/2002	Gupta et al.	8,600,815	B2	12/2013	Shkedi
6,615,247	B1	9/2003	Murphy	8,607,267	B2	12/2013	Shkedi
6,633,850	B1	10/2003	Gabbard et al.	8,671,139	B2	3/2014	Shkedi
6,654,725	B1	11/2003	Langheinrich et al.	8,677,398	B2	3/2014	Shkedi
6,804,660	B2	10/2004	Landau et al.	8,683,502	B2	3/2014	Shkedi
6,810,527	B1	10/2004	Conrad et al.	8,695,032	B2	4/2014	Shkedi
6,832,207	B1	12/2004	Shkedi	8,713,600	B2	4/2014	Shkedi
6,839,680	B1	1/2005	Liu et al.	8,775,249	B2	7/2014	Shkedi
6,868,392	B1	3/2005	Ogasawara	8,880,677	B2	11/2014	Julia et al.
6,907,566	B1	6/2005	McElfresh et al.	8,959,146	B2	2/2015	Shkedi
6,925,440	B1	8/2005	Shkedi	8,997,138	B2	3/2015	Shkedi
6,973,436	B1	12/2005	Shkedi	9,071,886	B2	6/2015	Shkedi
				9,078,035	B2	7/2015	Shkedi
				9,083,853	B2	7/2015	Shkedi
				9,117,217	B2	8/2015	Wilson et al.
				9,131,282	B2	9/2015	Shkedi
				9,208,514	B2	12/2015	Shkedi
				9,226,019	B2	12/2015	Shkedi
				9,271,024	B2	2/2016	Shkedi
				9,351,053	B2	5/2016	Shkedi
				9,369,779	B2	6/2016	Shkedi

(56)

References Cited

U.S. PATENT DOCUMENTS

9,508,089	B2	11/2016	Shkedi	
9,571,865	B2	2/2017	Shkedi	
9,591,380	B2	3/2017	Shkedi	
9,756,372	B2	9/2017	Shkedi	
9,800,917	B2	10/2017	Shkedi	
9,813,778	B2	11/2017	Shkedi	
9,830,615	B2	11/2017	Shkedi	
2001/0020242	A1	9/2001	Gupta et al.	
2001/0034646	A1	10/2001	Hoyt et al.	
2001/0039515	A1	11/2001	Mayadas	
2001/0042002	A1	11/2001	Koopersmit	
2001/0044743	A1	11/2001	McKinley et al.	
2002/0002541	A1	1/2002	Williams	
2002/0029267	A1	3/2002	Sankuratipati	
2002/0046105	A1	4/2002	Gardenswartz et al.	
2002/0046286	A1	4/2002	Caldwell et al.	
2002/0056109	A1	5/2002	Tomsen	
2002/0072965	A1	6/2002	Merriman et al.	
2002/0072971	A1	6/2002	DeBusk et al.	
2002/0082910	A1	6/2002	Kontogouris	
2002/0082923	A1	6/2002	Merriman et al.	
2002/0091568	A1	7/2002	Kraft et al.	
2002/0099603	A1	7/2002	Bandura	
2002/0112013	A1	8/2002	Walsh	
2002/0123928	A1	9/2002	Eldering et al.	
2002/0143632	A1	10/2002	Walter et al.	
2002/0161636	A1	10/2002	Takahashi	
2002/0194058	A1	12/2002	Eldering	
2002/0194589	A1	12/2002	Cristofalo et al.	
2003/0023481	A1	1/2003	Calvert et al.	
2003/0028871	A1	2/2003	Wang et al.	
2003/0036944	A1	2/2003	Lesandrini et al.	
2003/0046156	A1	3/2003	Cromer et al.	
2003/0046689	A1	3/2003	Gaos	
2003/0065558	A1	4/2003	Shaw et al.	
2003/0083938	A1	5/2003	Smith et al.	
2003/0110497	A1	6/2003	Yassin et al.	
2003/0135413	A1	7/2003	Nishi et al.	
2003/0154126	A1	8/2003	Gehlot et al.	
2003/0163370	A1*	8/2003	Chen	G06Q 30/0254 705/14.52
2003/0171990	A1	9/2003	Rao et al.	
2003/0220837	A1	11/2003	Asayama	
2004/0024632	A1	2/2004	Perry	
2004/0059632	A1	3/2004	Kang et al.	
2004/0068436	A1	4/2004	Boubek	
2004/0117322	A1	6/2004	Bjorksten et al.	
2004/0260605	A1	12/2004	McIntyre et al.	
2005/0010472	A1	1/2005	Quatse et al.	
2005/0021397	A1	1/2005	Cui et al.	
2005/0028188	A1	2/2005	Latona et al.	
2005/0038698	A1	2/2005	Lukose et al.	
2005/0038702	A1	2/2005	Merriman et al.	
2005/0086112	A1	4/2005	Shkedi	
2005/0097204	A1*	5/2005	Horowitz	G06Q 30/02 705/14.69
2005/0120091	A1	6/2005	Casais	
2005/0125289	A1	6/2005	Beyda et al.	
2005/0131762	A1	6/2005	Bharat et al.	
2005/0165644	A1	7/2005	Beyda et al.	
2005/0216336	A1	9/2005	Roberts et al.	
2005/0216823	A1	9/2005	Petersen	
2005/0222905	A1	10/2005	Wills	
2005/0278443	A1	12/2005	Winner et al.	
2006/0020508	A1	1/2006	Gorti et al.	
2006/0020510	A1	1/2006	Vest	
2006/0026061	A1	2/2006	Collins	
2006/0053047	A1	3/2006	Garcia et al.	
2006/0064351	A1	3/2006	Hamor et al.	
2006/0069614	A1	3/2006	Agarwal et al.	
2006/0070117	A1	3/2006	Spalink et al.	
2006/0085263	A1	4/2006	Greer et al.	
2006/0095322	A1	5/2006	Dierks	
2006/0106710	A1	5/2006	Meek et al.	
2006/0116924	A1	6/2006	Angles et al.	

2006/0122879	A1	6/2006	O'Kelley	
2006/0161553	A1	7/2006	Woo	
2007/0067297	A1*	3/2007	Kublickis	G06Q 30/02
2007/0121843	A1	5/2007	Atazky et al.	
2007/0130005	A1*	6/2007	Jaschke	G06Q 30/02 705/14.66
2007/0260624	A1	11/2007	Chung	
2007/0283384	A1	12/2007	Haeuser et al.	
2008/0052392	A1	2/2008	Webster et al.	
2008/0133342	A1	6/2008	Criou et al.	
2008/0183561	A1	7/2008	Zohar et al.	
2009/0049468	A1	2/2009	Shkedi	
2009/0049469	A1	2/2009	Small et al.	
2009/0106100	A1	4/2009	Mashinsky	
2009/0129377	A1	5/2009	Chamberlain et al.	
2009/0132559	A1	5/2009	Chamberlain et al.	
2009/0172723	A1	7/2009	Shkedi et al.	
2010/0198705	A1	8/2010	Spalink et al.	
2010/0293057	A1	11/2010	Haveliwala et al.	
2010/0299431	A1	11/2010	Vanderhook et al.	
2011/0040607	A1	2/2011	Shkedi	
2011/0167043	A1	7/2011	Hintze et al.	
2011/0258049	A1	10/2011	Ramer et al.	

FOREIGN PATENT DOCUMENTS

KR	20040026167	3/2004
KR	2004099222 A	11/2004
WO	WO1997021183 A1	6/1997
WO	WO99/44159	9/1999
WO	WO1999057660 A1	11/1999
WO	WO2001054034 A1	7/2001
WO	WO2002050694 A1	6/2002
WO	WO2004084109 A	9/2004
WO	2005022887 A2	3/2005
WO	WO2005/046237	5/2005

OTHER PUBLICATIONS

Yahoo's Invalidity Contentions (pages related to parent patent in this family); *AlmondNet, Inc. et al. v. Yahoo! Inc.*, Civil Action No. 16-cv-1557-ILG-SMG, U.S. District Court for the Eastern District of New York; Jun. 30, 2017.

Exhibits D-1 through D-16 (as revised) of Yahoo's Invalidity Contentions cited above; Jun. 30, 2017 and Aug. 22, 2017.

Kerwin; "NY Times Web Site Lets Advertisers Get Personal: Profile Info From Users Allows Ads to be Highly Targeted;" Advertising Age; Jul. 14, 1997.

Engage Technologies, Inc.; Form S-1A; filed with the SEC; pp. 36-50; Jul. 19, 1999.

"The e-Marketing Report"; Morgan Stanley Dean Witter; May 2000; portions.

New York Times Reference Dictionary definition of "computer," downloaded Apr. 7, 2010.

Baseview.com website (ClassManagerPro) from www.archive.org, archived Jan. 16, 1997.

S-1/A SEC Filing, filed by FlyCast Communications Corp. on Apr. 30, 1999.

24/7 RealMedia, The Science of Digital Marketing, Company Overview (2007).

aaddzz.com webpages from www.archive.org, archived Jan. 30, 1998.

AdForce, Inc., User Guide, A Complete Guide to AdForce, Version 2.6 (1998).

Fawcett, Adrienne W., Publishers thankful but nervous about boom, Magazinedotcom, Hot spending boosts . . . , adage.com, Nov. 1, 1999.

Ad-Star.com website archive from www.archive.org (archived on Apr. 12, 1997 and Feb. 1, 1997).

Chang et al., "Goodies" in exchange for Consumer Information on the Internet, The Economics and Issues, Proceedings of the Thirty-First Annual Hawaii International Conference on System Sciences, 1998.

(56)

References Cited**OTHER PUBLICATIONS**

- Arlein et al., Privacy-Preserving Global Customization, EC'00, Oct. 17-20, 2000.
- avenuea.com webpage, FAQ, www.avenuea.com/corpinfo/faq.html, archived Oct. 2, 1999.
- Advertising—A Unified Approach to Advertising Management, Baseview Products, Inc. brochure, Oct. 14, 1999.
- Ribeiro-Neto et al., Extracting Semi-Structured Data Through Examples, Proceedings of the Eighth International Conference on Information and Knowledge Management (1999).
- Raskutti and Beitz, Acquiring Customer Preferences for Information Filtering, a Heuristic-Statistical Approach, Fifth Annual Conference on User Modeling (1996).
- Bilchev et al., Personalized advertising—exploiting the distributed user profile, BT Technology Journal, vol. 21 No. 1, Jan. 2003.
- Boncella, Robert J., Internet Privacy—At Home and At Work, Communications of the AIS, vol. 7, Article 14, Sep. 2001.
- AdKnowledge, Campaign Manager-Quick Reference Card (1996).
- Emert, 2 Web Ad Firms Decide to Marry, Palo Alto's Focalink, ClickOver Merging, San Francisco Chronicle, Nov. 17, 1997.
- Elderbrock & Borwankar, Building Successful Internet Businesses, IDG Worldwide, 1996.
- David W. Schumann & Ester Thorson, Advertising and the World Wide Web, Lawrence Erlbaum Associates, 1999.
- Williamson, Debra Aho, Web ads mark 2nd birthday with decisive issues ahead, adage.com, Oct. 21, 1996.
- Williamson, Debra Aho, Targeting distinguishes AdForce from the pack, adage.com, Mar. 1, 1999.
- DoubleClick.com webpages from www.archived.org, archived Feb. 5, 1998.
- Tittel et al., Foundations of World Wide Web Programming with HTML & CGI, IDG Books Worldwide (1995).
- Graham, Ian S., HTML Sourcebook, A Complete Guide to HTML, John Wiley & Sons (1995).
- Aaddzz Brochure, Information Access Technologies, Inc. (1997).
- Gilbert, Special Report, Agencies centralize Web ad serving, adage.com, Mar. 1, 1999.
- Palmer & Eriksen, Digital Newspapers Explore Marketing on the Internet, Communications of the ACM, vol. 42, No. 9, Sep. 1999.
- Angwin, Julia, Focalink Will Monitor World of Online Ads, San Francisco Chronicle, Feb. 7, 1996.
- Gallagher & Parsons, A Framework for Targeting Banner Advertising on the Internet, Proceedings of the Thirtieth Hawaii International Conference on System Sciences, Jan. 1997.
- Cleland, Kim, Accipiter latest entrant in race to manage ads, company sets sights on helping content providers target audience, Adage.com, Sep. 9, 1996.
- Cleland, Kim, New Player joins fray of Web ad targeters, adage.com, Feb. 24, 1997.
- Bayne, Kim M., AdKnowledge rolls out Web ad evaluation tool, adage.com, Jul. 8, 1999.
- Kwok et al., Tracking Results from Multichannel Marketing Programs on Electronic Commerce, EC'03, Jun. 9-12, 2003.
- Langheinrich et al., Unintrusive Customization Techniques for Web Advertising, Computer Networks 31, 1259-1272, May 1999.
- Maekawa et al., A Java-Based Information Browsing System in a Remote Display Environment, IEEE (2004).
- Meeker, Mary, The Internet Advertising Report, Harper Business, 1997.
- Yeager & McGrath, Web Server Technology, The Advance Guide for World Wide Web Information Providers, Morgan Kaufmann Publishers (1996).
- Net.Genesis & Devra Hall, Build a Website, The Programmer's Guide to Creating, Building, and Maintaining a Web Presence, Prima Publishing (1995).
- NetGravity Launches AdServer 3.5 with Beefed Up Targeting, clickz.com, Sep. 10, 1998.
- Novak & Hoffman, New Metrics for New Media, Toward the Development of Web Measurement Standards, Project 2000, elab.vanderbilt.edu, Sep. 26, 1996.
- RealMedia.com webpages, www.archive.org, archived on May 15, 1997 and Jun. 7, 1997.
- Bruner, Rick E., Interactive, NetGravity to launch new ad service bureau, adage.com, Dec. 1, 1997.
- Bruner, Rick E., Small networks chase per-click ad business, Aaddzz, ValueClick compete, AdvertisingAge, Sep. 8, 1997.
- Zeff & Aronson, Advertising on the Internet, 1st Edition, John Wiley & Sons (1997).
- Zeff & Aronson, Advertising on the Internet, 2nd Edition, John Wiley & Sons (1999).
- Samar, Single Sign-On Using Cookies for Web Applications, IEEE 8th International Workshops on Enabling Technologies, Infrastructure for Collaborative Enterprises (WET ICE'99), Jun. 16-18, 1999.
- Singh & Dalal, Web Home Pages as Advertisements, Communications of the ACM, Aug. 1999.
- The ClickZ Network, Netscape Selects Real Media's Open AdStream, Jan. 13, 1998.
- The ClickZ Network, Real Media Signs More Media Companies, Dec. 30, 1998.
- www.Spinbox.com webpages, www.archive.org, archived beginning Nov. 11, 1998.
- Bakos, The Emerging Role of Electronic Marketplaces on the Internet, Communications of the ACM, vol. 41, No. 8, Aug. 1998.
- Youiji Kohda & Susumu Endo, Ubiquitous Advertising on the WWW, Merging Advertisement on the Browser, Fifth International World Wide Web Conference (May 1996).
- Baseview.com webpages from www.archive.org, archived Jan. 16, 1997.
- AdForce, Inc., Quick Reference Guide, Version 3.0 (1999).
- AdManagerPro, Ad Entry Manual, User's Manual V.1.05, 1997.
- AdManagerPro, Ad Entry Manual, User's Manual V.2.0, 1997.
- AdManagerPro, Administration and Receivables Manual, Administrator's Manual Version 1.0.5, Nov. 1997.
- AdManagerPro, Administration and Receivables Manual, Administrator's Manual Version 2.0, Jun. 1998.
- Commercialization of the World Wide Web, The Role of Cookies, vanderbilt.edu web pages, archive.org, Feb. 1, 1997.
- Crabtree et al., Adaptive Personal Agents, Personal Technologies (1998).
- Dalton, Gregory, OPS, Answer to Cookies?, InformationWeek, Oct. 13, 1997.
- Dunn et al., Privacy and Profiling on the Web, Submitted to W3C on Jun. 2, 1997.
- firefly.com web pages, archive.org, archived 1998-2000.
- Gilbert, Jennifer, CMGI's Web dealmaking hits big-time, Advertising Age, Oct. 4, 1999.
- Hersley et al., Implementation of OPS Over HTTP, Submitted to W3C on Jun. 2, 1997.
- Hersley et al., Proposal for an Open Profiling Standard, Submitted to W3C on Jun. 2, 1997.
- Hersley et al., Standard Practices of OPS Systems, Submitted to W3C on Jun. 2, 1997.
- junkbusters.com web pages, archive.org, archived Apr. 1997 through Nov. 2000.
- Karpinski, Richard, ICE application to revolutionize e-commerce, Business Marketing, Mar. 1998.
- matchlogic.com web pages, archive.org, Apr. 13, 2000.
- Roscheisen, R. Martin, A Network-Centric Design for Relationship-Based Rights Management (Dissertation), Dec. 1997.
- Kristol, D. & Montulli, L.; HTTP State Management Mechanism, Internet Engineering Task Force; available at <https://tools.ietf.org/html/rfc2109>; Feb. 1997.
- Berners-Lee, Tim; Information Management: A Proposal; CERN; available at <http://www.w3.org/History/1989/proposal.html>; May 1990.
- Berners-Lee, Tim; Uniform Resource Locators (URL), A Syntax for the Expression of Access Information of Objects on the Network; Internet Engineering Task Force; available at <http://www.w3.org/Addressing/URL/url-spec.txt>; Mar. 21, 1994.
- Berners-Lee, Tim; The Original HTTP as defined in 1991, W3C; available at <http://www.w3.org/Protocols/HTTP/AsImplemented.html> (1991).

(56)

References Cited**OTHER PUBLICATIONS**

Berners-Lee, Tim, et al.; Hypertext Transfer Protocol—HTTP/1.0; Network Working Group Request for Comments: 1945; Internet Engineering Task Force; available at <https://tools.ietf.org/html/rfc1945>; May 1996.

Leiner, Barry M. et al.; Brief History of the Internet; Internet Society; Oct. 15, 2012.

Berners-Lee, T. & Connolly, D.; Hypertext Markup Language—2.0; Network Working Group Request for Comments: 1866; Internet Engineering Task Force; available at <https://tools.ietf.org/html/rfc1866>; Nov. 1995.

Tungate, Mark; Adland—A Global History of Advertising, 2d Ed. (2013).

Johnson, Bradley; Interactive; Planet Oasis Gives Web Sites Promotion Clout; Advertising Age; available at <http://adage.com/article/news/interactive-planet-oasis-web-sites-promotion-clout/78467>; Jul. 8, 1996.

Jones, Duncan; The History of Pay Per Click (PPC) Marketing; Online Marketing Bog (www.duncanjonesnz.com) available at <https://www.duncanjonesnz.com/history-of-ppc-marketing>; Sep. 23, 2014.

Moukheiber, Z.; DoubleClick is watching you; Forbes Magazine; Nov. 4, 1996.

Fielding, R. et al.; Hypertext Transfer Protocol—HTTP/1.1; Network Working Group, RFC 2068; Jan. 1997.

Glenn, A. and Millman, D.; Access Management of Web-based Services; D-Lib Magazine; Sep. 1998.

New Engage ECHO Remarketing Solution Aimed at Decreasing Customer Acquisition Costs, Improving Customer Retention; BusinessWire; Sep. 25, 2000.

Google Launches Self-Service Advertising Program; <http://googlepress.blogspot.com/2000/10/google-launches-self-service.html>; Oct. 23, 2000.

Google Introduces New Pricing for Popular Self-Service Online Advertising Program; <http://googlepress.blogspot.com/2002/02/google-introduces-new-pricing-for.html>; Feb. 20, 2002.

AdWords Separate Content Bidding; http://googlepress.blogspot.com/2005/11/adwords-separate-content-bidding_22.html; Nov. 22, 2005.

Ipro.com website, as it was publicly available at least by Jan. 18, 1998; see generally https://web.archive.org/web/19980118123203fw_/http://www.ipro.com:80/index.html; Jan. 18, 1998.

Baker, Loren; Behavioral Targeting and Contextual Advertising; <https://www.searchenginejournal.com/behavioral-targeting-and-contextual-advertising/836/>; Sep. 1, 2004.

* cited by examiner

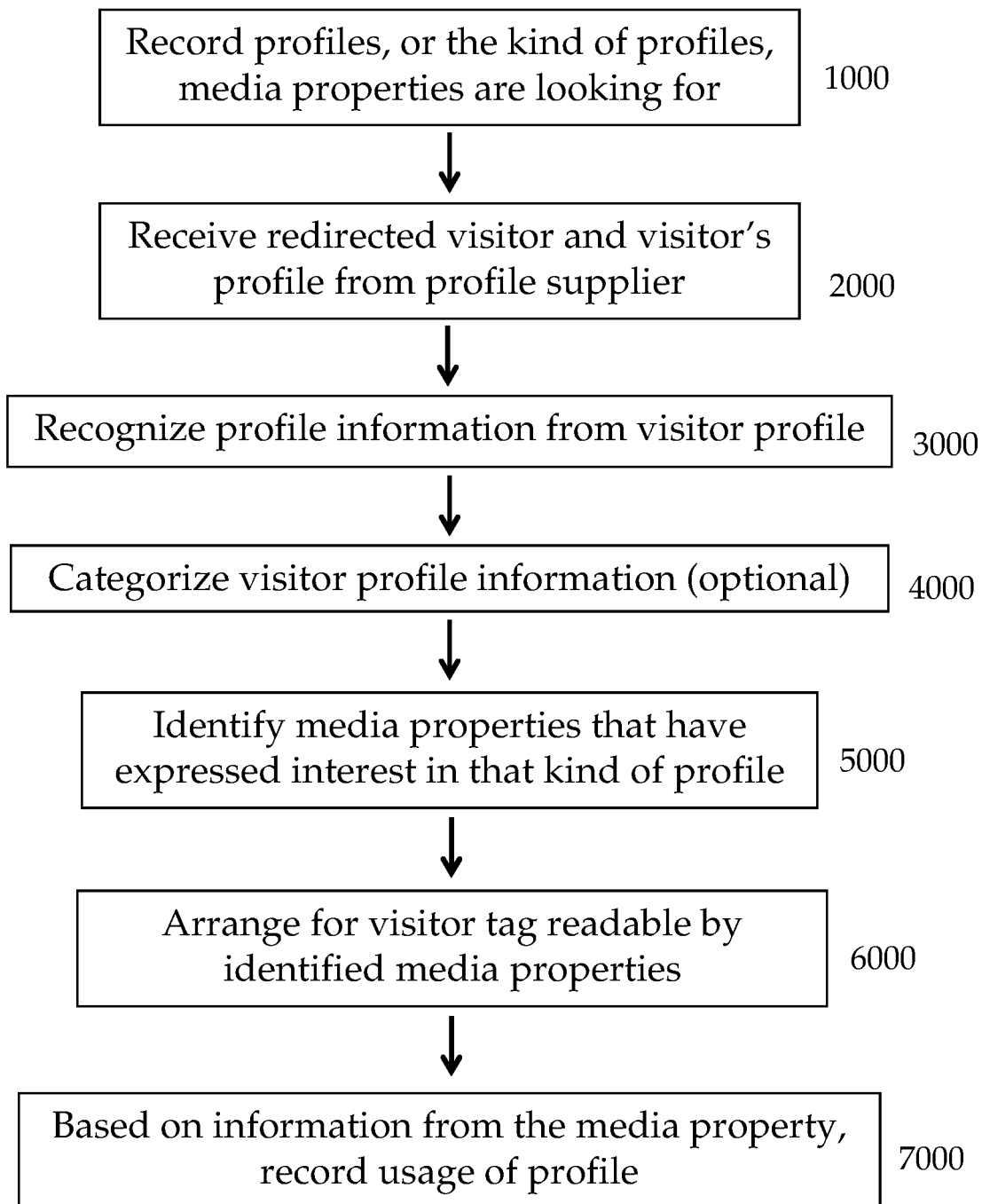


FIG. 1

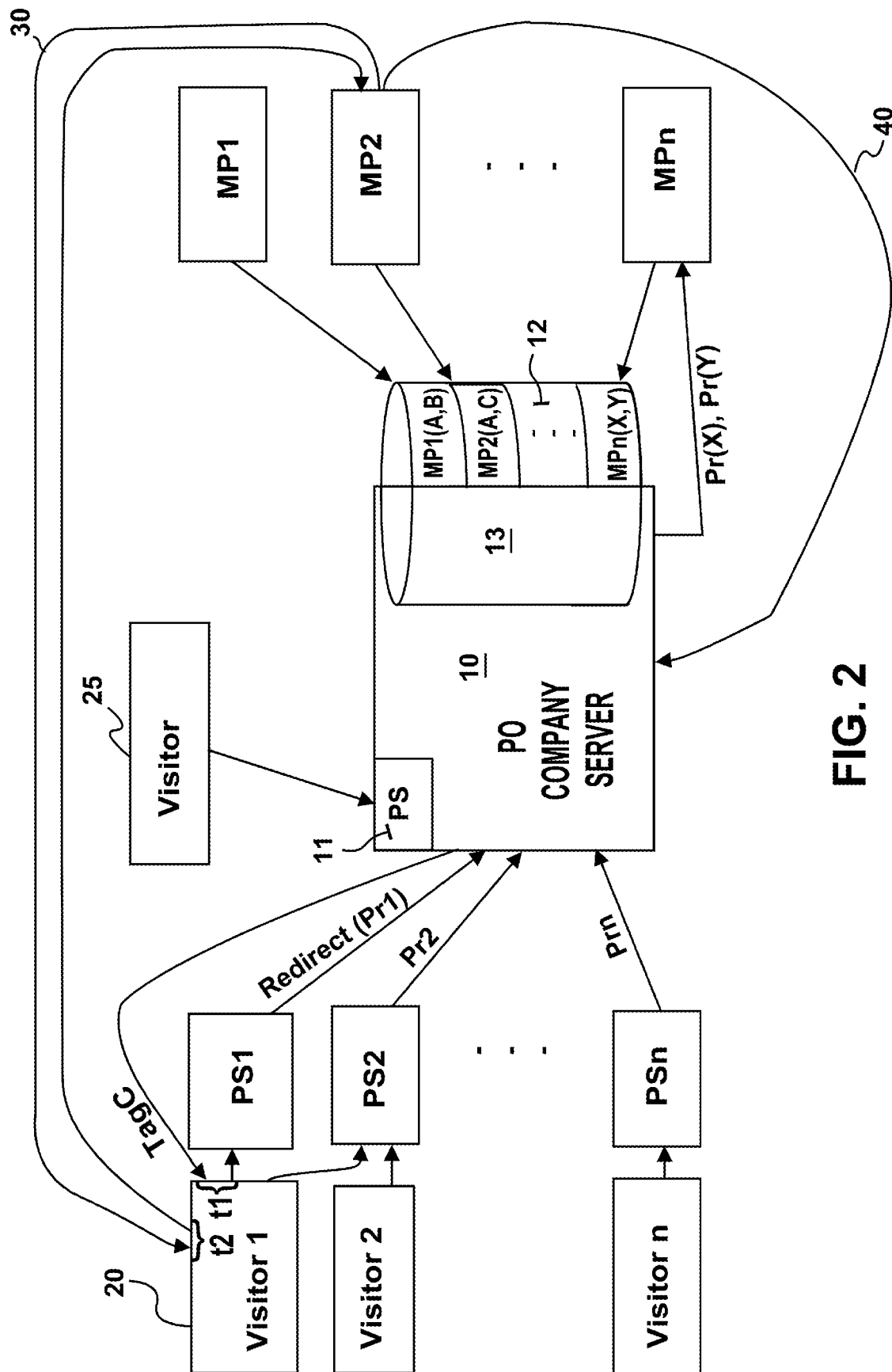


FIG. 2

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PROVIDING COLLECTED PROFILES TO MEDIA PROPERTIES HAVING SPECIFIED INTERESTS

CROSS REFERENCE TO RELATED APPLICATIONS

This application is a continuation of application Ser. No. 14/080,999, filed Nov. 15, 2013, which is a continuation of application Ser. No. 13/631,244, filed Sep. 28, 2012, now U.S. Pat. No. 8,589,210, which is a continuation of application Ser. No. 11/765,433, filed Jun. 19, 2007, now U.S. Pat. No. 8,280,758, which claims the benefit of provisional application Ser. No. 60/805,114, filed Jun. 19, 2006, which is incorporated herein by reference.

FIELD OF THE INVENTION

The present invention generally relates to profile-based behavioral targeting advertisement placement services. More specifically, the present invention relates to improving monetization of electronic advertisement placement.

BACKGROUND OF THE INVENTION

DoubleClick's "Boomerang" is a service for advertisers that places a cookie on computers of visitors to an advertiser's site for the purpose of finding those visitors on other sites where DoubleClick is the ad server ("ad" is short for advertisement). When the same visitors are found on those other sites, additional advertiser's ads are served to them by the DoubleClick ad sever or by the advertiser's ad server following a redirect from the DoubleClick ad server.

The only server that can read a cookie on a user's computer is a server operating under the same domain as the server that placed the cookie on a user's computer to begin with. In other words, a cookie placed by a server operating under one domain cannot be read by another server working under a separate domain. That is why the advertiser cannot expect to place a cookie of its own (e.g., ford.com cookie) on a visitor to its site and then later expect the DoubleClick ad server (doubleclick.com) to be able to recognize the visitor when that visitor is visiting sites where DoubleClick serves ads by reading the ford.com cookies. Only a server operating under the DoubleClick domain can read a cookie placed by a server operating under the DoubleClick domain. So, DoubleClick needs to place a doubleclick.com cookie on visitors to the ford.com site for DoubleClick to later find those visitors within other sites, i.e., where the DoubleClick ad server is used to serve ads.

For a site to have its ad served by an ASP-hosted ad server, such as the one operated by DoubleClick, the site needs to redirect visitors from the site to the DoubleClick ad server, to fetch the ad from the server. Following the redirect from the site, the visitor accesses the DoubleClick ad server. Because the DoubleClick server is operating under the DoubleClick domain, it can read the DoubleClick cookie or cookies and then recognize that it encountered the same visitor in the past. In this example, the DoubleClick ad server recognizes the visitor as someone who visited the ford.com site.

AlmondNet, Tacoda, RevenueScience, and other companies (herein "BT companies"; "BT" stands for behavioral targeting) specialize in targeting ads based on observed behavior of sites' visitors. To record a visitor's observed behavior, a BT company places a cookie (or cookies) on the computers of visitors to specific sections of a publisher's

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website or on the computers of visitors of the publisher who conducted a specific action such as search, click content, click an ad, make a phone call, request information, acquire a product, etc.

The placement of cookies allows those publishers or the BT company itself to sell ads to advertisers. Those ads will be presented to the profiled visitors when they are found later on the same site or on other sites. Such sites can be either a site where the BT company's software is used or a site where the BT company has bought media. The BT company may buy the media on behalf of itself or on behalf of the publisher, who is interested in delivering ads to its audience outside the publisher's site.

Although a BT company (AlmondNet, Tacoda, RevenueScience, etc.) acts as an agent that places cookies on the computers of publisher's visitors for the purpose of delivering targeted ads to the publisher's visitors on other sites, the publisher can work without an agent and place cookies or tags on the computers of the publisher's own visitors for the purpose of delivering ads to those visitors on other sites where the publisher buys ad space. Such a publisher, acting without an agent, is also included in the definition of a BT company.

A publisher may also be referred to as a "profile supplier" when it transfers profile information, such as behavioral information, demographic information, etc., to a BT company. Therefore, a publisher that is a BT company may also be its own profile supplier. Furthermore, although the name "BT company" implies the targeting of ads is based on collected behavioral profiles, a BT company may also collect other kinds of profile information, such as demographic information or user-provided information, and target ads to those visitors wherever found based on the collected profile information.

Another kind of a BT company is a company that has software installed on a person's computer, such as toolbar software, desktop search software, weather software, or any kind of software that is used by the computer's user. Such software also monitors the computer user's visits to different publishers' sites and media properties and collects profile information about the computer user for the purpose of delivering ads to the user within ad space of sites and media properties that the user visits based on the collected profiles.

A BT company using software installed on a user's computer does not need the cooperation of a visited media property to collect information about the visitor's visit because that software monitors whatever the user is doing on his or her computer. A BT company that has software installed on a user's computer is therefore its own profile supplier. Such software can place a cookie or another kind of tag on the user's computer. Because the software is installed on the user's computer, it can write cookies readable by any domain. That means that the BT company can place a tag or cookie of a second media property, if the BT company would like the second media property to recognize the visitor when the visitor visits that second media property site, by simply having the software place a cookie operating under the domain of the second property on the visitor's computer. The software may also report the collected profiles to a central server of the BT company.

The central server may also tag the visitor or arrange for the visitor to be tagged by operators of other media properties. A BT company can place a cookie on a site's section when a visitor's computer visits that section, if a code of the company was integrated into the page of that section by the site that owns the page. The code (e.g., HTML or Java) redirects to the BT company's server all visitors to the page.

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Also, in the case that the BT company is the publisher itself, the publisher will simply “cookie” (by itself) all visitors that either read a specific content, search, click, ask for information, make a phone call, etc.

The BT company’s server, which either gave the site a unique code for a page, received from the page its URL, or received access to the page’s content that could be analyzed by the BT company’s server, etc., identifies the content read by the page’s visitor, the keyword searched for by the user, an ad clicked on the page, a content item clicked on the page, a phone call that was made that was initiated from the page, information that was requested, or a product was acquired, etc. The content read by the page visitor could be identified by the BT company’s server whether the content was reported by the site or whether the content was identified following the analysis of the page. The server then places a cookie on the user’s computer indicating what content was read by the visitor on the page, what keyword was searched for by the user, or what ad was clicked on the page, etc. The placed cookie indicates that information (1) in the cookie per se, (2) in a central database operated by the server where the cookie ID is used as a record finder, or (3) both in the cookie and in the database.

Although the above description relates to cookies, a cookie is only one example of a possible tag. A tag generally is a unique identifier used to mark a person electronically visiting a media property, such as a web site, TV channel, radio show, or the like, using a computer, a mobile device, a TV set, a TV set top box, or any other device.

The tag is used for the purpose of delivering additional ads to a visitor to one media property when that visitor is found later on other media properties, based on the visitor’s profile collected on the first media property. The profile could be the observed behavior of the visitor on the media property, demographic information collected on the media property, profile information provided by the visitor to the media property, etc. The profile could be made available to the other media properties.

Because the purpose of the tag is to enable the delivery of additional ads on other media properties visited by the visitor, and because the delivery of an ad requires only control of the ad space and not necessarily control of the entire media property visited by the visitor, a media property (in the present context) can also be defined as any equipment that controls an ad space viewed by a visitor, including a web site, an ad network’s site (where the ad network represents the ad space of different sites), a TV program, some of the ad space within TV programs or TV channels (represented by a cable company), a TV network, or any ad space for which an entity is allowed to sell an advertisement and deliver it within the ad space; whether the ad space is owned by that entity, or whether the entity pays the owner of the ad space when using its ad space to deliver an ad sold by the entity. Ad space can be on a web site, in a TV program, in a text message, in a radio show, in any broadcasted material, in any streaming video or audio, etc. An ad space can be a fixed position on a page, or the ad space can be made available by a web site to an ad network (for example) only when the web site did not sell all of the site’s ad inventory and therefore wishes to make some of the inventory available to the ad network.

In the case of a media property controlling an ad space viewed by a visitor, a specific ad space on a page might be controlled only temporarily. For example, in the case of the web site that did not sell all the ad impressions available to be delivered within an ad space on a page and therefore makes the unsold ad space available to the ad network to fill,

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the ad network will have temporary control of the ad space, i.e., when that ad space is given to it by the web site. Once the site redirects the ad space on the page to the ad network (so the ad network could fill the ad space with an ad sold by the ad network), the ad network controls the ad space and has access to the visitor viewing the ad space that was redirected to the ad network by the site, and therefore the ad network’s equipment is considered a media property, as it controls an ad space viewed by a visitor.

The tag can be placed on the device used by the user to access the first media property where the user’s profile was collected (in case of observed behavior, that behavior can be reading a specific content, searching, clicking an ad or content, making a phone call, asking for product information, acquiring a product, or taking any other kind of action). A tag placed on the device (1) could be read only by a server operating under the same domain as the server that placed the tag on the device to begin with as in the case of a cookie for example, (2) could be placed on the device when the user visited the first media property, and then the tag can be read by any second media property visited by the visitor, or (3) could be encrypted and, while accessed by any second media property visited by the visitor, the tag could be deciphered only by second media property computers that received the deciphering code from the first media property. In case of a tag placed by software installed on a user’s computer, the tag could be whatever the software wants it to be, including a cookie of any domain.

A tag does not have to be placed on the user’s device. A tag can also be used in a central database of a BT company or a central database of any second media property visited by the visitor, where the tag could be a unique identifier either of the device or of the user. In the case where the tag identifies the device, the tag might denote an IP address, a phone number, a device’s manufacturer serial number, etc. A cookie placed on the device can also uniquely identify the device and the cookie therefore can be used as a tag in a central database. In the case where the tag identifies the user, the tag might denote the username and password used to access a media property, a user’s name and address, a user’s e-mail, a user’s social security number, or any other personal identifiable information.

As already mentioned, the observed behavior of a visitor to a first media property is referred to as profile information about a specific visitor. A visitor’s profile might be enhanced by the visitors’ observed behavior on other media properties or by other profile information collected on other media properties.

A visitor’s profile can be represented by a unique tag, or the profile can be stored with the tag, whether the tag is placed on the device, on a central database, or both. For example, the profile can be stored within a cookie (tag) on a visitor’s device, or the profile can be stored in a central database where the tag connected to the profile is used as a unique identifier of the visitor’s device or of the visitor personally. The profile can also be saved on both the device and a central database.

Some 50% to 80% of the ad space on the Internet is considered difficult to monetize, as it is located next to content that tends to be more generalized, such as general news, web based e-mails, instant messages, music or files downloading sites, and software. Advertisers are not willing to pay a high price for delivering an ad to visitors of such sites, as they do not know how many of those sites’ visitors are potential clients for their products and services. By contrast, advertisers prefer the placement of ads on dedicated content sites, such as a travel site. For example, an

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airline is willing to pay a high price per ad on a travel site, as it knows that the ad will be delivered to people who are currently searching for flying tickets. The same is true for TV, where a significant proportion of the ad space is within TV programs where the audience is heterogeneous. It is also true for radio shows and other kind of media.

Using profiles for the delivery of targeted ads within the above-described low-value ad space can turn the low-value ad space into high-value ad space by delivering ads to users that are based on previously collected profiles of the users, rather than ads that are related to the content on the page they are viewing. For example, a “car insurance” related ad, delivered to a person who yesterday searched for “car insurance” within the ad space of a general news page the person is currently reading, will be much more relevant to the person than an ad related to the general news he or she is reading.

The BT companies are described above as collecting profiles and later delivering ads to the profiled visitors when found on other sites. The ads delivered by the BT company to the profiled visitors are either sold by the BT company, which pays royalties to the profile suppliers that provided it with profiles whenever ads presented to their audience generate revenues, or paid for by a publisher that is interested in delivering ads to its own audience outside its site and is paying the BT company to find its audience on other sites. As described, the publisher might be the BT company itself.

In addition, where the collected profiles are mainly used to deliver targeted ads within low-value ad space that is acquired from low-value ad space owners, and the ads are delivered by the BT company, there is also the opportunity to make the collected profiles available to low-value ad space owners, because, instead of selling their low-value ad space to the profile owners, such ad space owners would prefer to monetize their low-value ad space better by themselves, by using the collected profiles to sell targeted ads, delivered to the profiled visitors when found within such low-value ad space.

A low-value ad space owner could be any media property owner, whether it owns a web site, a TV program, a radio show, or any other media property. Also, “low-value” ad space is a relative term. Because ad space prices are usually a function of the content next to the ad space, if a profile-based ad garners a higher price for the ad space owner than an ad based on the adjacent content, then the ad space value is considered “low value” (i.e., in relative terms, relative to the price the ad space will garner if used for delivery of a profile-based ad).

As described, for example, in commonly owned U.S. Pat. No. 6,925,440, (A) profile owners (i.e., who either own the profiles or have the right to resell the profiles on behalf of another profile owner) can provide a databank with access to visitors and their profiles, and (B) either (i) the databank enhances its existing profile on a visitor with a profile owner’s profile information about the visitor or (ii) a profile owner enhances the profile it has on a visitor with the databank’s profile information about the visitor, where the profile information is given in return for royalties paid for every later usage of the profile information for the delivery of targeted ads to the visitor based on the profile (for example).

Although the invention of the ’440 Patent provides a media property with additional information about its visitors, several possible challenges arise:

1. If a media property (if acting as a profile owner) wants to enhance the profiles available to it about its visitors and

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thus contacts a databank and provides it with access to the profiles, the media property might be wasting resources: First, the databank might have no profiles about the media property’s visitors. For example, if the databank has no profile about a visitor, the media property would have provided the databank access to the visitor merely to learn that fact. Second, the profiles that the databank does have might be of no use to the media property because its sales force does not sell ads in the category in which the profiles belong. For example, if the databank has a profile about the visitor and it is a health-related profile, but the media property’s sales force does not sell ads in the health category, the profile available from the databank about that visitor is of no use to the media property.

2. The media property (if acting as a databank) may be given access by a profile owner to many visitors to that profile owner’s site for whose profiles the media property has no need, because the media property has no way of monetizing profiles of those kinds. For example, if a media property’s sales force specializes in selling ads in the travel and financial services categories, there is no use in providing them with health, auto, and shopping-related profiles. In cases where a large profile owner makes profiles available to a media property, unless the media property has a very large sales force that specializes in selling ads in many different advertising categories, there is a significant probability that the media property will have no use for most of the profiles received.

3. A media property that receives profiles under the system of the ’440 Patent described here is committing itself to pay for every usage of a received profile. Because many of the ads (or, depending on the way the profile is transferred, all of the ads) are delivered by the media property after receipt of the profile, it is a challenge for the media property to track usage of the profiles. First, it is not clear which of the visitors (for whom the media owner received profiles) actually visited the media property later on their own accord as opposed to visiting via a redirect, for example from a databank or a profile owner to the media property without the visitor asking for such visit or being aware of it. In the case of a redirect from a databank’s server or a profile owner’s server, a visitor’s browser would simply fetch a 1×1 transparent pixel from the media property’s server following the redirect. Second, because it is not clear how many of the profiled visitors will appear later within the ad space of the media property, some tracking of the usage of the profiles by the media property must be established. The problem becomes even more complex when the media property receives the profiles from a databank, because the databank itself aggregates profiles from other profile owners and makes those profiles available to media properties, and it is not clear which of the delivered profiled visitors will visit the media property on their own accord (whether for the first time or not). In that circumstance, it is not clear how the databank will know which profile suppliers to compensate for usage of their profiles. The problem is especially complex when the databank has several profile suppliers providing it with profiles in the same category (for example, the databank may have 20 different travel sites, all allowing the databank to tag their visitors as “travel” visitors) and the databank gives to a media property all of the profiles from those profile suppliers within that category.

Although BT companies can collect profiles and deliver ads to the profiled visitors within low-value ad space that they buy from media properties, there remains the need, therefore, to provide collected profiles to media properties that will better monetize their low-value ad space by selling

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ads based on the profiles and delivering the ads within their ad space to the profiled visitors when those visitors visit the media properties and making a payment for the profiles to the profile owners who provided the profiles.

What is needed generally is a more efficient method of profile-based behavioral targeting advertisement placement services, particularly for improving monetization of electronic advertisement placement.

SUMMARY OF THE INVENTION

Generally, various aspects of the disclosed embodiments relate to systems and methods for providing collected profiles to media properties, for improved monetization of electronic advertisement placement. The methods have particular importance to media properties that have interests in specific profiles or profiles of a specified category or kind.

The disclosure more specifically relates to an automatic system operated by a profile owner company ("PO company") for identifying media properties interested in having a collected profile made available to them. The automatic system makes the identification by recognizing a collected profile as one that a media property has previously requested or one that is within a category that a media property has previously requested. Thereafter, the PO company arranges for the visitor to be tagged with a tag readable by the media property that requested such a profile.

Using information received from the media property, the PO company then records usage of the profile by the media property. When the PO company also acts as a databank, the PO company determines which profile supplier will be credited for the media property's usage of the profile (i.e., the one that provided the databank with the profile that was used) and records the credit.

In one implementation, when a media property uses a profile, the media property transfers the visitor, along with the profile it is using, to the PO company's system, to let the PO company know which kind of profile was used. The media property might transfer the profile along with the visitor only when the media property receives from the PO company more than one kind of profile, because it is unnecessary if the media property receives only one kind of profile.

Because BT companies collect profiles, any BT company (defined above) could act as a PO company and make profiles available to media properties, whether the PO company owns profiles directly or acts as a databank representing other profile owners. Such other profile owners provide the databank with their profiles in return for (i) royalties paid to them whenever the profiles are used, or (ii) a payment. Any profile supplier (defined above) can also be a PO company.

The above summary does not include an exhaustive list of all aspects of the present invention. Indeed, the inventor contemplates that the invention may include all systems and methods that can be practices from all suitable combinations of the various aspects summarized above, as well as those disclosed in the detailed description below and particularly pointed out in the claims. Such combinations have particular advantages not specifically recited in the above summary.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a flow diagram of an exemplary embodiment of a method for transferring collected profiles to media properties having specified interests.

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FIG. 2 is a schematic of an exemplary embodiment of entities and associated data flow useful with a method of transferring collected profiles to media properties having specified interests.

DESCRIPTION OF PREFERRED EXEMPLARY EMBODIMENTS

In disclosed embodiments, collected profiles are made available by accepting information about desired profiles or profile categories from a media property, identifying an electronic visitor as fitting into the profile category, and arranging for that visitor to be tagged. Preferred additional aspects of disclosed embodiments include automatically electronically recording electronic visits by tagged visitors to a media property, determining which profile supplier will be credited for the recorded electronic visit, and crediting that profile supplier.

The method includes the following basic steps:

1. A PO company's database **12** records (FIG. 1, **1000**) the profiles, or the kind of profiles, a media property (e.g., FIG. 2, MP1) is looking for. The profile could be a behavioral profile, a demographic profile, or any other possible profile. For example, a media property (MP1) could ask for visitors who have searched for "car insurance" on a search engine, visitors who were interested in "travel" (MP1(A)), or visitors who were interested in "autos" (MP1(B)), etc. A media property can communicate to the PO company the profiles for which it is looking via e-mail, electronically, via mail, over the phone, or in any other way.

2. A profile supplier (e.g., FIG. 2, PS1) redirects (FIG. 1, **2000**) a visitor **20** to a PO company **10** along with the visitor's profile (Pr1). In case the profile supplier is also the PO company (see visitor **25**), this step either does not take place or takes place internally, for example via an internal redirect from one server (see **11**) to another server **10** operating under the same domain that belongs to the publisher/PO Company. In case the PO company has software on a user's computer that enables it to monitor the user's visits to media properties without the cooperation of the media properties, this step either does not take place or takes place internally, e.g., by the software on the user's computer communicating the collected profile to the PO company's central server.

3. The PO company's server **10** recognizes (**3000**) the content read by the user, the category to which the content read by the user belongs, the keyword searched for by the user, an ad clicked by the user, or any other action conducted on the page/site by the user (such as click on an item of content or an ad, purchase of a product, request for more information, etc.) during the site visit. The recognizing might be as simple as pulling a keyword for which the visitor searched from a URL used by the profile supplier to redirect the visitor **10** to the PO company, for example. Alternatively, the recognizing might be as simple as recognizing the kind of content read by the visitor by recognizing the URL used by the profile supplier to redirect the visitor to the PO company because the URL is one that the PO company identified to the profile supplier for use when redirecting visitors who read a specific kind of content. Recognizing of content may also be done through a semantic analysis of content of a page read by the visitor.

4. The PO company's server **10** optionally can categorize (**4000**) specific content read by the user or an action conducted by a user. In some implementations, this step will not take place. An example action might be a search for a keyword. To illustrate, suppose a person searched for an

airline ticket to Florida on a travel site. When the PO company receives that information, in addition to recording the search for the flight to Florida in the visitor's profile (whether the profile is stored in the cookie or tag, the PO company's central database 13, or both of those places), the PO company's server 10 may further categorize the person under the "Travel" category and in the "Search for Flights" subcategory of "Travel." In another example, a visitor would be categorized as "searching for an airline ticket" by virtue of having searched for an airline ticket at least three different times within a week, on one media property or several media properties. In that example, if the visitor were to have searched for an airline ticket fewer than three times within a week, the PO company's server 10 will not categorize the visitor as "searching for an airline ticket," because the visitor would be considered as less serious about the purchase according to the definition in use by the PO company.

5. The PO company's server 10 identifies (5000) the media properties (e.g., MP1 and MP2) that have asked to receive a visitor having a profile such as the one recognized in step 3 or categorized in step 4 (e.g., a profile of kind "A" in FIG. 2). Thereafter, the PO company arranges (6000) for the visitor (e.g., 20) to be tagged with a tag readable by the identified media property (e.g., MP1 or MP2), which can use the tag to recognize the visitor's profile.

6. Using information 40 received from the media property, the PO company then records (7000) usage of the profile (e.g., Pr(A)) by the media property (e.g., MP2). When the PO company also acts as a databank, the PO company determines which profile supplier (PS1, PS2, . . . PSn) will be credited for the media property's (e.g., MP2's) usage of the profile and records the credit (e.g., in data store 13).

The PO company's arranging placement of the tag (see step 5 above) can be achieved in different ways:

A. The PO company can redirect (e.g., Pr(X), Pr(Y) in FIG. 2, in cases where media property MPn has expressed interest in those profiles) a visitor to the identified media property with a request to have the identified media property tag the visitor with the media property's own tag, which obviously is readable by the selected media property (such a tag could be a cookie on the visitor's storage device). The tag in this case could be placed by the identified media property following a redirect by the PO company to a specific URL given to the PO company by the media property. The media property would have given the PO company, in this example, different URLs for different kind of profiles, and the PO company would choose the URL for redirecting the visitor to the media property based on the kind of profile recognized.

B. The PO company can itself place a tag (e.g., TagC denoting profile "C" in FIG. 2) that will be readable by the identified media property.

C. The PO company can place an encoded tag that, although accessible by any media property, can be read only by a selected media property to which the PO company gave a deciphering code.

D. In cases when the PO company has software installed on a user's computer, the PO company can arrange for the software to place a tag readable by the identified media property (such a tag could be a cookie operating under the selected media property domain).

E. The PO company can arrange for the identified media property to place a tag in the identified media property's central database, in which case the tag can uniquely identify (1) the device that the visitor will use to access the identified media (IP address, set-top box ID, mobile phone number,

manufacturer serial number, cookie readable by the identified media property, etc.), or (2) the user as a person (personal identifiable information).

The identified media property can use its tag to recognize the profile of the visitor either (1) by virtue of each profile having a unique tag (e.g., TagC denoting profile "C" in FIG. 2), or (2) by virtue of the profile that was received from the PO company having been stored (a) with the tag, (b) in the tag (which can occur with a cookie), (c) in a central database (where the tag is used as the link between the visitor and profile), or (d) in all of those places.

In another possible implementation (not shown), aside from the PO company arranging placement of the tag readable by the identified media property, the PO company sends the profile and a copy of the tag separately to the identified media property, which will store the tag and the profile in its central database, and when the identified media property recognizes the tag on a visitor's computer, for example, it pulls the visitor's profile from its database.

The PO company can make a profile available to a media property using the same methods that profile suppliers use to give their profiles to PO companies.

When an identified media property (e.g., MP2 in FIG. 2) recognizes (at time t2) a tagged visitor (tagged previously, at time t1) within its ad space, the media property will serve an ad 30 to the visitor (e.g., visitor 20) based on the profile provided by the PO company 10. Usually, a profile-based ad will be delivered by the media property when it will generate a higher price for the ad space than other ads available to the media property for placement within the ad space.

The media properties (a profile supplier and an identified media property) can be of the same kind of media (e.g., two web sites on the Internet) or of different media (e.g., first media property, where the profile is collected, can be a web site on the Internet, and the second media property, to which the profile is given by the PO company, can be a TV channel on TV or a text message system on a mobile phone, etc.). In the case where the second media property operates within a different media than the first media property, the tagging of the visitor with a tag readable by the second media property (which is arranged by the PO company) might include finding the device used by the visitor to access the second media property (the identified media property) by using personal identifiable information about the visitor. As there may be no connection between the device used by the visitor to access the first media property (computer, for example) and the device used by the visitor to access the second (identified) media property (TV, for example) besides the commonality of the user (visitor), personally identifiable information about the visitor could be used to allow the second media property to learn which device the visitor uses to access the second media property and tag the visitor. The second media property could tag the device used by the visitor to access the second media property by placing a tag on the device itself or in a central database of the second media property, for example.

The process of the PO company enabling an identified media property to place a cookie on a visitor's computer for the purpose of finding the visitor later within the ad space of the identified media property is similar to the way Double-Click's Boomerang system places cookies on visitors to an advertiser site for the purpose of finding those visitors later on other sites where Doubleclick serves ads. That process—where identified media properties place cookies on visitors' computers redirected to them by PO companies—is sometimes referred to as "cookie matching."

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For example, following a redirect (not shown) from a server **10** of a PO company #1, weather.com might place a weather.com cookie on a visitor's computer **20** marking the visitor as interested in "travel" (profile category "A") and indicating that the profile originated with PO company #1. Later, if and when the weather.com ad server (MP2) recognizes that the same visitor **20** had happened to visit weather.com's site (weather.com can recognize the visitor by reading its own weather.com cookie), the weather.com ad server (MP2) can choose to deliver a travel-related ad **30** to the visitor **20** within the weather.com ad space. The weather.com ad server's decision whether or not to deliver the travel-related ad will usually depend on the price the ad is expected to bring when compared with the price for other ads available for weather.com to display within the same weather.com ad space.

In step 6, the information received by the PO company might be received from the media property electronically **40**, via e-mail, in a file on a CD sent by mail, or in any other form. That said, because the goal is to make profiles available to media properties on a large scale, it would be beneficial to demand the least complex approach from media properties. After all, the more complex the tracking system that the media properties must implement to track their usage of profiles, the more difficult it will be for them to use profiles that they do not own.

One implementation—where the media property is required to give only minimal effort to track its usage of profiles—is merely asking a media property to provide the PO company server **10**, every time that the media property (MP2) serves an ad based on a profile from the PO company, with access to the visitor **20** viewing an ad **30** based on the PO company's profile (e.g., in TagC). Such access, in that implementation, could be achieved by simply having the media property integrate into every profile-based ad it delivers a 1×1 pixel that will redirect (also denoted by **40** in FIG. 2) the visitor **20**, when viewing the ad **30** (at time **t2**), to the PO company server **10**. Such a 1×1 pixel can point to a URL given to the media property by the PO company that is unique to a certain kind or category of profiles (so the PO company could recognize not only the fact that the media property used a profile but also the kind of profile used). The advantage of this implementation is that the PO company is the one that records the profile usage, and the media property does not have to do anything further to keep or transfer records.

In the same implementation, in cases where the PO company has transferred more than one kind of profiles to a media property (for example, profiles "A" indicating interest in travel and profiles "B" indicating interest in autos), the media property can send the PO company, along with the access to the visitor viewing an ad, an indication of which profile the media property used to deliver the ad currently being viewed by the visitor. In that implementation, a travel profile will be indicated by the media property's use of a first URL to redirect the visitor to the PO company server, an auto profile will be indicated by the media property's use of a second URL to redirect the visitor to the PO company server, etc. (The different URLs for different kind of profiles would be ones given to the media property by the PO company.)

Because different kind of profiles might have different rates (a travel profile might fetch \$2 CPM, auto profiles might fetch \$5 CPM, etc.), it is important to know which of the profiles the media property used. Also, if the PO com-

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pany is acting as a databank, it might have different ways in which it compensates profile suppliers for their collected profiles.

Based on its profile collection and compensation policy, the PO company can decide which profile suppliers to credit for the delivery of a profile-based ad by a media property. For example, the PO company might decide that, for behavioral profiles, time is important, so only the last profile supplier to report a behavioral profile of a visitor (before an ad based on that profile is served to the visitor) will be compensated but any other profile suppliers that provided the same kind of profile information about the same visitor earlier will not be compensated.

The following example illustrates the above-described embodiment. Suppose a visitor **20** searches for airline tickets on three different sites (PS1, PS2, and PSn), and all three sites delivered the visitor **20** to the PO company server **10** along with the information that the visitor searched for an airline ticket. Suppose further that the PO company has recognized that the Yahoo! site (MP2 is Yahoo! this time) is interested in receiving travel ("A") profiles and therefore has redirected (not shown) the visitor **20** to Yahoo! on three different occasions along with the information that the visitor searched for an airline ticket; that is, each time the PO company server **10** itself received access to the visitor **20** following a redirect from a profile supplier (PS1, PS2, or PSn), it immediately redirected the visitor to Yahoo!, because it recognized the visitor **20** as interested in "travel" (in this example, according to a definition that recognizes a visitor as interested in "travel" after only one search for an airline ticket).

Later (time **t2**), when the visitor **20** chooses to visit yahoo.com (MP2) on his or her own accord, Yahoo! recognizes the profiled visitor **20** and delivers a travel-related ad **30** to the visitor **20**; however, Yahoo! has that opportunity only after Yahoo! has received the profile about the visitor **20** from the PO company three times. If Yahoo! has integrated into the travel ad **30** delivered to the visitor **20** a 1×1 pixel redirecting the visitor **20** to the PO company, the visitor's browser, when fetching the ad from the Yahoo! ad server (MP2), also approaches the PO company server **10**. The PO company server **10** learns, from the URL that the visitor's browser is using to access it, that Yahoo! (MP2) has served a travel-related ad **30** to the visitor **20**.

Based on that information, the PO company records (in data store **13**) a charge of two tenths of a cent to Yahoo! (in this example, \$2 CPM, or \$2 per 1,000, is the rate the PO company charges for travel-related ("A") ads delivered based on travel profiles provided by the PO company to a media property).

The PO company stores, as part of the visitor's profile, data indicating which profile suppliers provided profiles about the visitor and the date and time the profiles were supplied. The PO company stores the profile (1) in the tag (a cookie, for example), (2) along the tag, (3) in a central database (e.g., **13**), in which case the tag is used as a link between the visitor's computer and the profile information in the database, or (4) in all of those places.

Note that the PO company's tag is different from the identified media property's tag. The PO company's tag is used to uniquely identify a visitor about which the PO company has a profile, where the profile itself includes the profile suppliers that provided the profile, the dates and times they have done so, and possibly other information, all part of the visitor's profile definition. The identified media property's tag is used by the media property to recognize the profile of the visitor.

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The PO company uses its own tag to access the visitor profile and learn which profile supplier (PS1, PS2, or PSn) was the last one to supply the travel-related ("A") profile (the visitor's search for airline tickets), which Yahoo! (MP2) used to deliver the ad. The PO company then records (also, e.g., in 13) a credit of one tenth of a cent (half of the charge to Yahoo!) to that profile supplier. In this example, a revenue share of 50%-50% between the profile supplier and the PO company is used. If the PO company had agreed with the profile supplier on a 40% revenue share, the profile supplier would have been given a credit of eight hundredths of a cent ($\$2/1000 \times 40\%$), or if the profile supplier was promised \$0.001 for every use of its profile, the PO company would have recorded a credit of \$0.001 to the profile supplier.

In a second illustration, the PO company might decide that a visitor should be considered interested in "travel" only if the visitor searches for airline tickets three different times within a week, on the same site or different sites. In that case, only when the visitor is recognized as interested in "travel" according to that definition will the PO company make the visitor's "travel" profile available to media properties (MP2) interested in "travel" ("A") profiles. In this example, if a first profile supplier PS1 delivers the visitor 20 and the information (Pr1) that the visitor 20 is searching for airline tickets on Sunday, a second profile supplier PS2 delivers the visitor 20 to the PO company 10 on Monday along with the information (Pr2) that the visitor 20 is searching for airline tickets, and the first profile supplier PS1 again delivers the visitor 20 to the PO company 10 on Wednesday along with the information (not shown) that the visitor 20 is searching for airline tickets, then only at that time on Wednesday will the PO company's server 10 recognize the visitor 20 as a "travel" ("A") visitor and redirect (not shown) the visitor's computer 20 to Yahoo! (MP2).

In that second illustration, when Yahoo! (MP2) serves a travel-related ad 30 to the visitor 20 and redirects (40) the visitor 20 to the PO company 10, the PO company might credit (in 13) the first profile supplier PS1 with two thirtieths of a cent ($\$2/1000 \times 50\% \times 2/3$) and the second profile supplier PS2 with one thirtieth of a cent ($\$2/1000 \times 50\% \times 1/3$). In other words, in that illustration, (a) Yahoo! agreed to pay \$2 for every thousand travel-related ads delivered based on profiles provided by the PO company, (b) the PO company promised to give profile suppliers half of the revenues the PO company generates from ads delivered by media properties based on the profiles it makes available to them, and (c) the visitor was recognized as interested in "travel" thanks to two visits (out of the three visits to travel sites that defined the visitor as interested in "travel") made to the first profile supplier's site and one visit to the second profile supplier's site. Therefore, the first profile supplier is entitled to two thirds of the amount due to the profile suppliers altogether, and the one visit made by the visitor to the second profile supplier's site entitles the second profile supplier to one third of the amount due to the profile suppliers altogether.

Alternatively, the PO company—when making a profile available to a media property by arranging for placement of a tag readable by the identified media property—can add a unique ID to the profile (or to the tag in cases where the tag is used by the media property to recognize the visitor's profile) and ask the media property to report the ID back to the PO company whenever the media property uses the transferred profile. The PO company can use the unique ID to record in its database the profile suppliers that will be entitled to a credit when the media property delivers ads based on the transferred profile. The media property could report 40 to the PO company (at the end of the month, for

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example) the number of ads it has served, for each unique ID. Because each unique ID represents a kind of profile, the PO company will know what rate it should charge the media property for usage of the profile, and because the unique ID also tells the PO company which profile suppliers should be entitled to a credit for the usage of a profile, the PO company can also credit the deserving profile suppliers.

The media property might pay the PO company for every ad impression delivered based on the received profile or only when an action takes place that is connected to the ad (perhaps occurring on the advertiser's site immediately following a click on the ad or perhaps occurring a few days after viewing the ad or clicking the ad), such as a click on the ad, a registration on the advertiser's site, a request for information, a product acquisition, or the making of a phone call.

Different implementations might be chosen depending on the relative sizes of a profile owner (in terms of number of profiled visitors; note that the profile owner may also be a databank) and a media property (in terms of number of visitors). In cases where the media property has many visitors and is considered to have an extensive reach ("reach" is a figure used to express the percentage of the population using a media that visits the media property; for example, Valueclick, a web-based ad network of sites reaches 80% of the US web population), a profile owner might transfer to the media property all visitors within the categories requested by the media property, because the probability of finding a profiled visitor within the media property's ad space is high (in the case of Valueclick, the probability is 80%).

In cases where the media property's reach is not very significant, but the profile owner has a relatively large number of profiles, the media property may choose to make its visitors accessible to the profile owner to check whether the profile owner can enhance the profiles of some of its visitors, in the ad categories of interest to the media property, instead of having the profile owner send all of its visitors in the categories of interest, because, as a result of the media property's low reach, only a small percentage of visitors sent to the media property by the profile owner will later choose to visit the low-reach media property.

PUBLIC NOTICE REGARDING THE SCOPE OF THE INVENTION AND CLAIMS

The inventor considers various elements of the aspects and methods recited in the claims filed with the application as advantageous, perhaps even critical to certain implementations of the invention. However, the inventor regards no particular element as being "essential," except as set forth expressly in any particular claim.

Although the invention has been described in terms of preferred embodiments and generally associated methods, the inventor contemplates that alterations and permutations of the preferred embodiments and methods will become apparent to those skilled in the art upon a reading of the specification and a study of the drawings.

I claim:

1. A method of causing delivery of electronic advertisements based on provided profiles comprising: (a) with a computer system automatically storing, in a central database associated with the computer system, profile information associated with a visitor, as a result of electronic receipt from a profile owner computer of indicia of the profile information, which profile information associated with the visitor matches a profile or kind of profiles requested by an

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entity controlling the computer system, wherein a tag associated with a visitor device serves as a link to the profile information associated with the visitor; (b) wherein the profile owner computer is programmed: (i) to automatically select a media property entity of a plurality of media property entities based on a comparison of (A) profile information about a visitor who electronically accessed electronic apparatus of a profile supplier with (B) a plurality of stored requests from the plurality of media property entities, one of which media property entities is the entity controlling the computer system, each stored request being for requested profiles or kinds of profiles, which plurality of stored requests includes the profile or kind of profiles requested by the entity controlling the computer system, and (ii) when the media property entity is the entity controlling the computer system, to automatically arrange for electronic storage of a requested profile linked to the tag that is associated with the visitor device, the tag being readable by equipment that is part of the computer system of part (a); and (c) later, when the visitor device is available to receive an advertisement, with the computer system, (i) using the tag of part (a) that is associated with the visitor device to access the profile information stored in the central database, and (ii) using the profile information linked to the tag of part (a) to automatically cause delivery of an electronic advertisement to the visitor device, wherein the electronic advertisement is dependent on the profile information associated with the visitor.

2. The method of claim 1 wherein the profile information associated with the visitor is derived from the visitor's activity using a first device, and wherein the visitor device that is available to receive an advertisement is a second device of the visitor.

3. The method of claim 2 wherein the first device is a computer of the visitor and the second device is a mobile phone of the visitor.

4. The method of claim 3 wherein the tag identifies the mobile phone.

5. The method of claim 3 wherein the profile owner computer is programmed to automatically select a media property entity using profile information about the visitor that was derived from the visitor's activity using the computer of the visitor, which profile information was received by the profile-owner computer as a result of URL redirection from a website that is served by the electronic apparatus of the profile supplier, which website is accessed by the computer of the visitor.

6. The method of claim 2 wherein the second device is a computer and further comprising, after parts (a) and (c), with

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the computer system electronically reporting information about delivery of the advertisement to the second device, which report is provided to a profile owner controlling the profile owner computer.

7. The method of claim 6 wherein electronically reporting comprises automatically placing the second device in communication with computer equipment controlled by the profile owner, via URL redirection from the computer system, when the computer system utilizes the tag to cause delivery of the advertisement.

8. The method of claim 1 further comprising, after parts (a) and (c), with the computer system electronically reporting information about delivery of the advertisement to the visitor device that is available to receive an advertisement, which report is provided to a profile owner company controlling the profile owner computer.

9. The method of claim 8 wherein reporting further comprises automatically electronically identifying to the profile owner company one of a plurality of profiles or kind of profiles used in association with delivery of the advertisement.

10. The method of claim 1 wherein the profile owner computer is programmed to automatically select a media property entity using profile information about the visitor that was derived from the visitor's activity using the visitor device.

11. The method of claim 10 wherein the profile information was received by the profile-owner computer as a result of URL redirection from a website that is served by the electronic apparatus of the profile supplier, which website is accessed by the visitor device.

12. The method of claim 1 wherein the tag comprises personally identifiable information identifying the visitor.

13. The method of claim 1 wherein the profile owner computer being programmed to automatically arrange for electronic storage of the profile information linked to the tag associated with a visitor device comprises the profile owner computer being programmed to perform automatic redirection to a URL provided by the selected entity to place the visitor device in communication with computer equipment controlled by the selected entity to enable storage, in a central database associated with the computer equipment of the selected entity, of the profile information linked to the tag that is associated with the visitor device.

14. The method of claim 1 wherein the apparatus of the profile supplier operates in the Internet and the equipment of the selected entity utilizes the profile data to cause delivery of the electronic advertisements on a television of the visitor.

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