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Desmond et al.

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(54) **METHOD AND APPARATUS FOR MANAGING DIGITAL FILES**

(56) **References Cited**

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(73) Assignee: **MemoryWeb, LLC**, Chicago, IL (US)

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(22) Filed: **Feb. 28, 2014**

(65) **Prior Publication Data**
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Related U.S. Application Data

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(51) **Int. Cl.**
G06F 7/00 (2006.01)
G06F 17/30 (2006.01)

(52) **U.S. Cl.**
CPC **G06F 17/30268** (2013.01); **G06F 17/3028** (2013.01); **G06F 17/30946** (2013.01); **G06F 17/30997** (2013.01)

(58) **Field of Classification Search**
None
See application file for complete search history.

U.S. PATENT DOCUMENTS

5,694,514 A * 12/1997 Evans G06K 17/0022 358/906
6,629,104 B1 * 9/2003 Parulski G06F 17/30265 348/231.2
7,372,976 B2 5/2008 Rhoads et al.
7,480,669 B2 1/2009 Lo et al.
7,694,236 B2 * 4/2010 Gusmorino G06F 3/04817 715/763

(Continued)

OTHER PUBLICATIONS

Kustanowitz et al., "Motivating Annotation for Personal Digital Photo Libraries: Lowering Barriers while Raising Incentives", Tech. Report HCIL-2004-18, U. Maryland, 2005.*


(Continued)

Primary Examiner — Michael Hicks
(74) *Attorney, Agent, or Firm* — Nixon & Peabody LLP

(57) **ABSTRACT**

A computer-implemented method of associating digital tags with digital files comprises storing a plurality of digital files having embedded therein content data and metadata including tags; receiving, via a user interface device of a client device, a first tag label containing alphanumeric text created and inputted by a user of the client device; modifying, using a controller device, a selected first one of the tags of the metadata in a first of the digital files to include the first tag label; receiving, via the user interface device or another user interface device, an instruction to search for all of the digital files having at least the first tag label; responsive to receiving the instruction, automatically searching for all of the digital files having at least the first tag label; and displaying, on a video display device associated with the client device, a first indication of the first tag label.

12 Claims, 50 Drawing Sheets



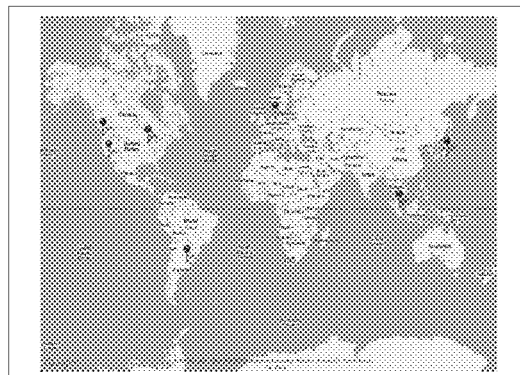
Comments:
Suzanne and Anthony's Wedding Party where the cousins posed for a photo in the grass. Note, Jack with the lollipop and the photographer with his shoe in the photo.

Location:
Historical Society
Lisle, IL 60532

People:
Jack Wong
CJ Wong
Mary Firestone
Zoe Pelka
Nick Persons

Event: Suzanne & Anthony's Wedding Reception 2010

Camera Details: more



(56)

References Cited

U.S. PATENT DOCUMENTS

8,150,844 B2	4/2012	Redstone	
8,484,223 B2*	7/2013	Ota	G06F 17/30247 707/748
2006/0165380 A1*	7/2006	Tanaka	G11B 27/34 386/227
2007/0282908 A1*	12/2007	Van der Meulen et al.	707/104.1
2009/0113350 A1*	4/2009	Hibino	G06F 17/30061 715/853
2009/0265631 A1*	10/2009	Sigurbjornsson	G06Q 10/10 715/716

OTHER PUBLICATIONS

Kisilevich et al., "Event-based analysis of people's activities and behavior using Flickr and Panoramio geotagged photo collections", 14th International Conference Information Visualization, pp. 289-296, 2010, IEEE.*

Ahern et al., "World Explorer: Visualizing Aggregate Data from Unstructured Text in Geo-Referenced Collections", JCDL'07, pp. 1-10, 2007, ACM.*

Kang et al., "Capture, Annotate, Browse, Find, Share: Novel Interfaces for Personal Photo Management", International Journal of Human-Computer Interaction, 23(3), pp. 315-337, 2007, Lawrence Erlbaum Associates, Inc.*

Jaffe et al., "Generating Summaries and Visualization for Large Collections of GeoReferenced Photographs", MIR'06, pp. 89-98, 2006, ACM.*

Torniai et al., "Sharing, Discovering and Browsing Geotagged Pictures on the Web", 2007, Hewlett-Packard Development Company, L.P.*

Snaveley et al., "Photo Tourism: Exploring Photo Collections in 3D", SIGGRAPH '06, ACM transactions on graphics, vol. 25, Issue 3, pp. 835-846, 2006, ACM.*

Kopf et al., "Deep photo: model-based photograph enhancement and viewing", ACM Transactions on Graphics, vol. 27, No. 5, Article 116, Dec. 2008, ACM.*

Trattner et al., "Evaluating tag-based information access in image collections", Proceedings of the 23rd ACM conference on Hypertext and social media, pp. 113-122, 2012, ACM.*

Kustanowitz et al., "Motivating Annotation for Personal Digital Photo Libraries: Lowering Barriers while Raising Incentives," Tech. Report HCIL-2004-18, U. Maryland, 2005 (10 pages).

Miller et al., "Give and take: a study of consumer photo-sharing culture and practice," CHI '07 Proceedings of the SIGCHI Conference on Human Factors in Computing Systems, pp. 347-356, 2007 (10 pages).

Ames et al., "Why we tag: motivations for annotation in mobile and online media," CHI '07 Proceedings of the SIGCHI Conference on Human Factors in Computing Systems, pp. 971-980, ACM, 2007 (10 pages).

Yee et al., "Faceted Metadata for Image Search and Browsing", CHI 2003, pp. 401-408, 2003, ACM.

Ferre, "CAMELIS: Organizing and Browsing a Personal Photo Collection with a Logical Information System", Int. Conf. Concept Lattices and Their Applications, pp. 112-123, 2007, HAL.

Tomasson et al., "PhotoCube: Effective and Efficient Multi-Dimensional Browsing of Personal Photo Collections", ICMR '11, 2011, ACM.

Bartolini et al., "Integrating Semantic and Visual Facets for Browsing Digital Photo Collections", SBED, pp. 65-72, 2009.

* cited by examiner

FIG. 1

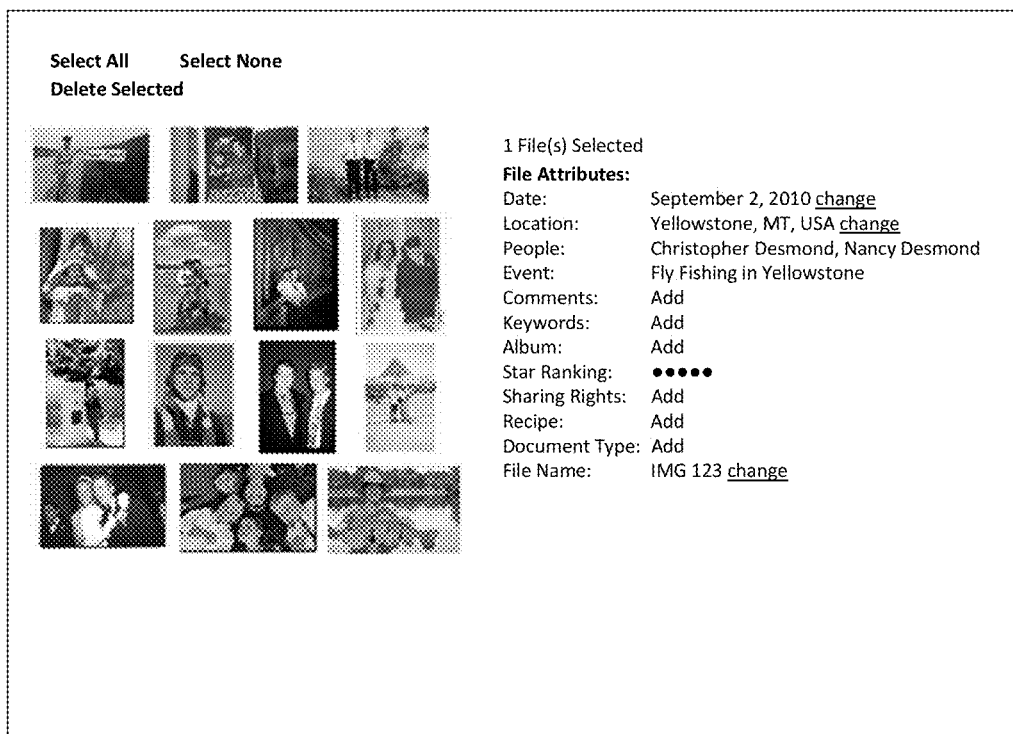


FIG. 2

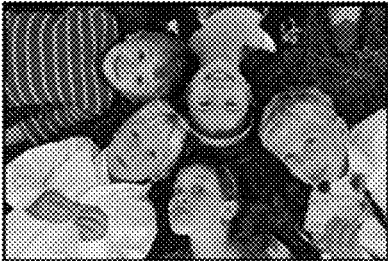
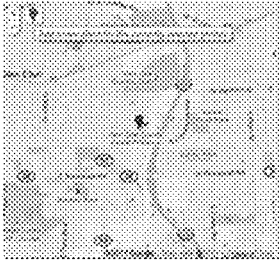
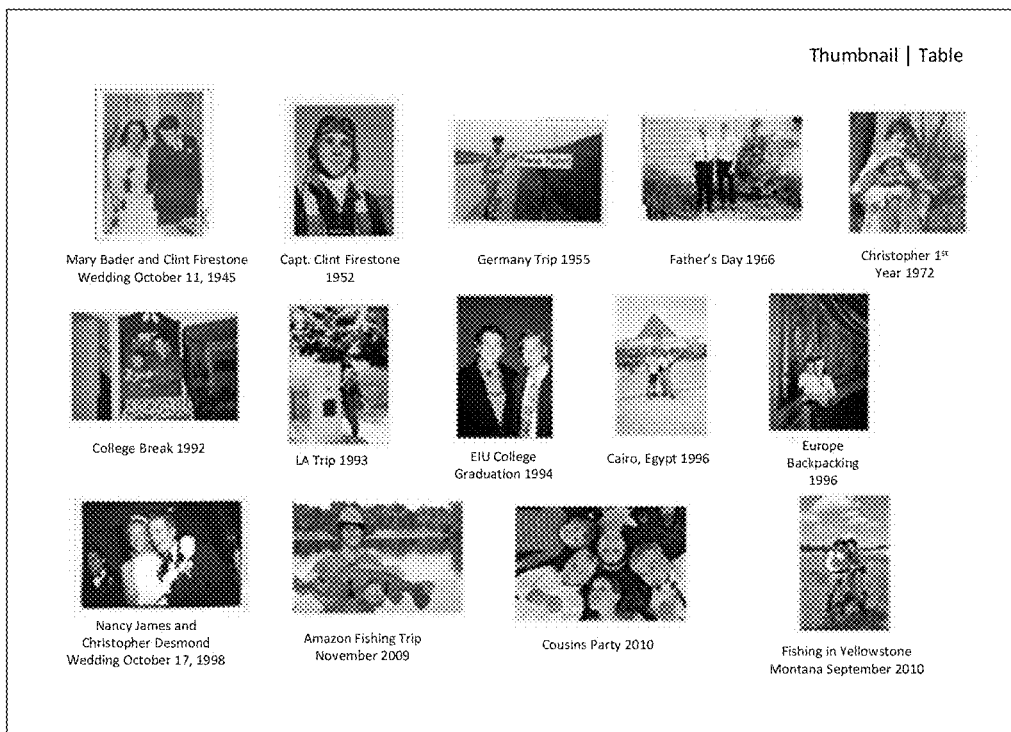
	
<p>Comments: Suzanne and Anthony's Wedding Party where the cousins posed for a photo in the grass. Note, Jack with the lollipop and the photographer with his shoe in the photo</p>	<p>Location: Historical Society Lisle, IL 60532</p>
<p>People: Jack Wong CJ Wong Mary Firestone Zoe Peika Nick Persons</p>	
<p>Event: Suzanne & Anthony's Wedding Reception 2010</p>	
<p>Camera Details: more</p>	

FIG. 3



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