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- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

[Continued on next page]

(54) Title: METHODS FOR MAKING AJAX WEB APPLICATIONS BOOKMARKABLE AND CRAWLABLE AND DEVICES THEREOF

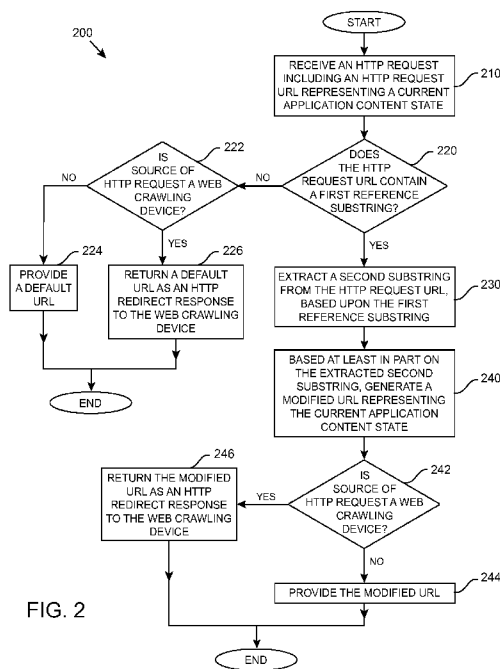
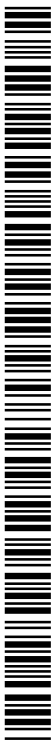


FIG. 2

(57) Abstract: Methods, devices, and computer-readable storage media that make an asynchronous JavaScript and extensible mark-up language (AJAX) application content state bookmarkable and crawlable include receiving a HyperText Transfer Protocol (HTTP) request is received. The HTTP request includes an HTTP request uniform resource locator (URL) representing a current application state. When the HTTP request URL contains a first reference substring, a second substring is extracted from the HTTP request URL based upon the first reference substring. A modified URL is generated based at least in part on the extracted second substring. The modified URL represents the current application content state.



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28 February 2013

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/044012**A. CLASSIFICATION OF SUBJECT MATTER***G06F 17/00(2006.01)i, G06F 17/20(2006.01)i, G06F 15/16(2006.01)i*

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G06F 17/00; G06F 15/16; G06G 7/62; H04L 12/24; G06F 17/30; H04L 29/06; H04L 29/12

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models
Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

AJAX web, application state, bookmark

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2009-0282052 A1 (EVANS MICHAEL et al.) 12 November 2009 See paragraphs 29-37; claims 1,2,11 and figures 3-5.	1-24
A	US 2011-0066609 A1 (ASHKENAZI ASAF et al.) 17 March 2011 See paragraphs 6, 20, 40, 41; claim 1 and figures 2-3.	1-24
A	WO 2009-076187 A2 (GALLUP, INC et al.) 18 June 2009 See paragraphs 17-19, 53, 54, 73-77; claim 1 and figure 7.	1-24
A	WO 2011-035944 A1 (IBM CORPORATION et al.) 31 March 2011 See col. 13, lines 3-11; col. 17, lines 9-27; claim 1; and figure 5.	1-24

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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US 2011-0066609 A1	17.03.2011	None	
WO 2009-076187 A2	18.06.2009	EP 2235881 A2 WO 2009-076187 A3	06.10.2010 18.06.2009
WO 2011-035944 A1	31.03.2011	CN 102597993 A US 2012-0191840 A1	18.07.2012 26.07.2012