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[Continued on next page]

(54) Title: RULE-BASED SYSTEM AND METHOD TO ASSOCIATE ATTRIBUTES TO TEXT STRINGS

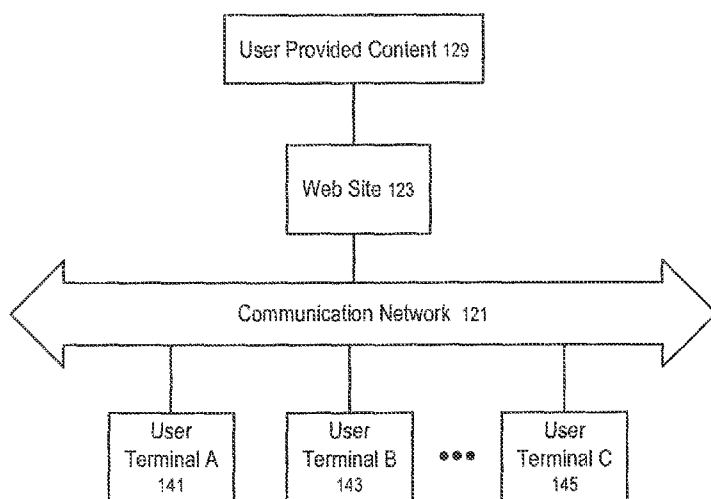


FIG. 1

(57) Abstract: In one embodiment, a title is selected for content to be published online. A method implemented in a data processing system includes receiving a plurality of text strings. A plurality of rules are applied to the text strings. If a condition specified in one of the rules exists in a given text string, one or more attributes are associated to that text string as metadata. One or more of the text strings are selected, using the metadata, as a potential title for the content. A final title is prepared based on the potential title, and the content is published online under the final title.

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INTERNATIONAL SEARCH REPORT

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PCT/US2011/024878**A. CLASSIFICATION OF SUBJECT MATTER****G06F 17/26(2006.01)i, G06F 17/30(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 17/26; G06F 17/30

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)

eKOMPASS(KIPO internal) & Keywords:query,keyword,rule,natural language

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR 10-2004-0063641 A (OPTUS CO., LTD.) 14 July 2004 See abstract and claims.	1-20
A	US 2009-0228439 A1 (MANOLESCU, DRAGOS A. et al.) 10 September 2009 See abstract and claims.	1-20
A	US 2006-0074853 A1 (LIU, HONG CHE et al.) 06 April 2006 See abstract and claims.	1-20
A	PARK,HONG-WON `Natural language based Information Retrieval System considering the focus of the question.` In:Korean Institute of Information Scientists and Engineers Conference on infomation processing of Korean, 10 October 1999 , pp.37-43 See abstract and sections 3-5.	1-20

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

* Special categories of cited documents:

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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
KR 10-2004-0063641 A	14.07.2004	None	
US 2009-0228439 A1	10.09.2009	None	
US 2006-0074853 A1	06.04.2006	US 2004-0199496 A1 US 2008-294609 A1 US 7007014 B2 US 7401074 B2 WO 2004-089058 A2	07.10.2004 27.11.2008 28.02.2006 15.07.2008 21.10.2004