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BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM,

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KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME,  
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(54) Title: PROOF OF PRESENCE VIA TAG INTERACTIONS

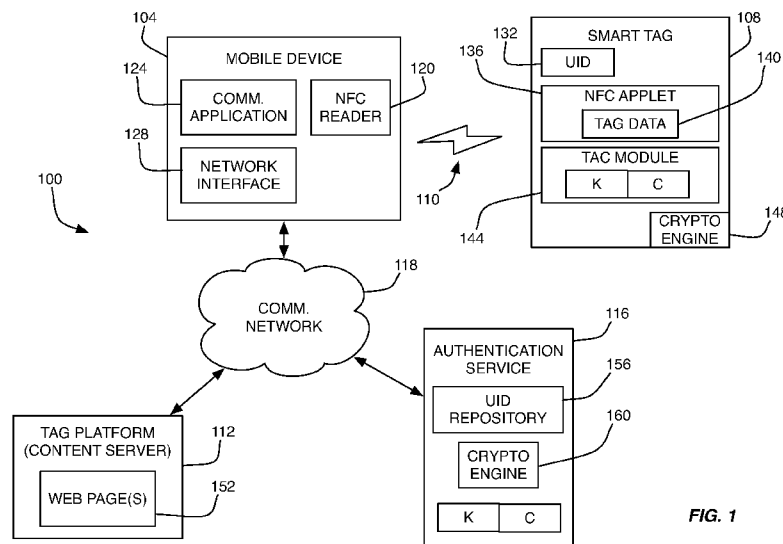


FIG. 1

(57) Abstract: A system and method for determining presence information for mobile devices (104) are disclosed. Specifically, the presence information for a mobile device (104) can be determined based on whether or not the mobile device (104) is having a unique interaction with a smart tag (108). If a unique interaction is detected, then the mobile device (104) can be said to be within the presence of the smart tag (108) and the location or presence information for the mobile device (104) can be correlated to location information known for the smart tag (108).

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER  
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ADD.  
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)  
H04L H04W G06K G01S G06Q  
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
EPO-Internal, WPI Data, INSPEC, COMPENDEX, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 8 344 853 B1 (WARNER JANICE [US] ET AL) 1 January 2013 (2013-01-01) abstract; claim 1; figures 1, 2 column 4, lines 4-49 column 5, line 39 - column 6, line 37 -----	1-19
Y	US 7 295 114 B1 (DRZAIC PAUL STEPHEN [US] ET AL) 13 November 2007 (2007-11-13) abstract; figures 1, 2, 3, 5 column 7, line 54 - column 10, line 2 column 14, line 19 - column 15, line 36 column 16, lines 29-45 column 19, line 3 - column 20, line 5 ----- -/--	1-19

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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	"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
"E" earlier application or patent but published on or after the international filing date	"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
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"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
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer <b>Schossmaier, Klaus</b>
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## INTERNATIONAL SEARCH REPORT

International application No  
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>EP 2 487 629 A1 (NXP BV [NL]) 15 August 2012 (2012-08-15) abstract; figures 1, 2 paragraphs [0005], [0006], [0010] paragraphs [0026] - [0028] -----</p>	1-19
A	<p>MUHAMMAD QASIM SAEED ET AL: "Off-line NFC Tag Authentication", INTERNET TECHNOLOGY AND SECURED TRANSACTIONS, 2012 INTERNATIONAL CONFERENCE FOR, IEEE, 10 December 2012 (2012-12-10), pages 730-735, XP032340705, ISBN: 978-1-4673-5325-0 abstract; figures 1, 2, 3 sections I, VI, VII -----</p>	1-19

# 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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