

**Declarations under Rule 4.17:**

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*
- *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))*

(88) Date of publication of the international search report:

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- *with international search report (Art. 21(3))*

A. CLASSIFICATION OF SUBJECT MATTER**G01S 5/02(2010.01)i, G01S 19/01(2010.01)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)

G01S 5/02; G06F 15/00; H04W 24/00; G06F 17/30; G06F 17/60; H04L 9/32; H04W 8/18

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: personally identifiable information, aggregation, position, and obfuscation

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 2242292 A1 (SWEDISH INSTITUTE OF COMPUTER SCIENCE AB.) 20 October 2010 See abstract, paragraphs[0015]–[0035], claims 1–8, and figures 1–4.	1–10
A	US 20100199098 A1 (KING) 05 August 2010 See abstract, claims 1–14, and figures 1–8.	1–10
A	JP 2004334433 A (NTT) 25 November 2004 See abstract, claims 1–6, and figures 1–6.	1–10
A	US 7894801 B2 (ZELLNER et al.) 22 February 2011 See abstract, claim 6, and figures 1–7.	1–10



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

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"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

Date of the actual completion of the international search

25 FEBRUARY 2013 (25.02.2013)

Date of mailing of the international search report

26 FEBRUARY 2013 (26.02.2013)

Name and mailing address of the ISA/KR



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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2012/042419

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 2242292 A1	20.10.2010	WO 2010-119051 A1	21.10.2010
US 20100199098 A1	05.08.2010	None	
JP 2004334433 A	25.11.2004	None	
US 7894801 B2	22.02.2011	US 2002-0077083 A1	20.06.2002
		US 2006-0030335 A1	09.02.2006
		US 2009-0325551 A1	31.12.2009
		US 2011-0143708 A1	16.06.2011
		US 7110749 B2	19.09.2006
		US 7603110 B2	13.10.2009
		US 8165568 B2	24.04.2012