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Concept 1 ☒ Concept 2 ☒ Concept 3 ☒ Concept 4 ☒

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CONCEPT 1: Concept 1

EN - Methods and wireless and (Wi-Fi or Wi-Fi) and (location or ubication) and (device or apparatus or system)

DE -

FR -

CONCEPT 2: Concept 2

EN - beacons or AP or access_point

DE -

FR -

CONCEPT 3: Concept 3

EN - finger_print

DE -

FR -

CONCEPT 4: Concept 4

EN - floor or LCI or RSS

DE -

FR -

Databases: ☒ EPDOC ☒ WIPO ☒ USPTO ☒ JPO ☒ KIPRI ☒ CNIPAT ☒ INPAD ☒ EPODOC

Database	SS	Status	Results	Query	Vis...	Comment
EPDOC	1		24183	JIC G0155/02		Starting Set in EPODOC
WIPO	1		61672	NOT (STARTING SET)		Transfer SS 1 from EPODOC
USPTO	2	Lim SS 1	0	METHOD+ AND WIRELESS AND WI-FI AND (LOCATION OR UBICATION) AND (BEACON+ OR AP OR ACCESS_POINT OR LCI OR RSS)		No result
JPO	3	Lim SS 1	0	METHOD+ AND WIRELESS AND WI-FI AND (LOCATION OR UBICATION) AND (BEACON+ OR AP OR ACCESS_POINT OR LCI OR RSS)		No result
KIPRI	4	Lim SS 1	0	METHOD+ AND WIRELESS AND WI-FI AND (LOCATION OR UBICATION) AND (BEACON+ OR AP OR ACCESS_POINT OR LCI OR RSS)		No result
CNIPAT	5	Lim SS 1	7091	METHOD+ AND (WI-FI OR WI-FI) AND (LOCATION OR UBICATION) AND (DEVICE+ OR APPARATUS+ OR SYSTEM+)		Concept 1: Concept 1
INPAD	6	Lim SS 1	12367	BEACON+ OR AP OR ACCESS_POINT OR LCI OR RSS		Concept 1: Concept 1
EPODOC	7	Lim SS 1	14023	(1 Patent) (5) OR (6)		1 Patent
WIPO	8	Lim SS 1	3459	(2 Patents) (5 AND 6)		2 Patents
USPTO	9	Lim SS 1	6735	METHOD+ AND WIRELESS AND (WI-FI OR WI-FI) AND (LOCATION OR UBICATION) ...		Concept 1: Concept 1
JPO	10	Lim SS 1	11941	BEACON+ OR AP OR ACCESS_POINT		Concept 2: Concept 2
KIPRI	11	Lim SS 1	13452	(1 Patent) (9) OR (10)		1 Patent
CNIPAT	12	Lim SS 1	5124	(2 Patents) (9 AND 10)		2 Patents
INPAD	13	Lim SS 1	6735	METHOD+ AND WIRELESS AND (WI-FI OR WI-FI) AND (LOCATION OR UBICATION) ...		Concept 1: Concept 1
EPODOC	14	Lim SS 1	11941	BEACON+ OR AP OR ACCESS_POINT		Concept 2: Concept 2
WIPO	15	Lim SS 1	0	MOVEL AND FINGER_PRINT		No result Concept 3
USPTO	16	Lim SS 1	5124	(2 Patents) (13 AND 14) OR (13 AND 15) OR (14 AND 15)		2 Patents
JPO	17	Lim SS 1	0	(2 Patents) (13 AND 14 AND 15)		2 Patents No result
KIPRI	18	Lim SS 1	2262	FINGER_PRINT		Concept 3: Concept 3
CNIPAT	19	Lim SS 1	5993	(2 Patents) (13 AND 14) OR (13 AND 15) OR (14 AND 15)		2 Patents
INPAD	20	Lim SS 1	970	(2 Patents) (13 AND 14 AND 15)		2 Patents
EPODOC	21	Lim SS 1	6735	METHOD+ AND WIRELESS AND (WI-FI OR WI-FI) AND (LOCATION OR UBICATION) ...		Concept 1: Concept 1
WIPO	22	Lim SS 1	11941	BEACON+ OR AP OR ACCESS_POINT		Concept 2: Concept 2
USPTO	23	Lim SS 1	2262	FINGER_PRINT		Concept 3: Concept 3
JPO	24	Lim SS 1	3733	FLOOR OR LCI OR RSS		Concept 4: Concept 4
KIPRI	25	Lim SS 1	2993	(3 Patents) (21 AND 22 AND 23) OR (21 AND 22 AND 24) OR (21 AND 23 AND 24) OR (21 AND 23 AND 25)		3 Patents
CNIPAT	26	Lim SS 1	371	(4 Patents) (21 AND 22 AND 23 AND 24)		4 Patents

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US2012072106 EP2597486 WO2012011690 CN103119470 CN1031194708

EPDOC / EPO

PN - US2012072106 A1 20120322

TI - LOCATION BASED SERVICE SYSTEM AND METHOD FOR PERFORMING INDOOR NAVIGATION

AB - Embodiments for performing an indoor navigation are disclosed. The location based service system includes: a plurality of access points installed in an indoor environment and configured to send Wi-Fi signals including access point identification information; a mobile terminal configured to receive a Wi-Fi signal from at least one of the access points and form a first Wi-Fi fingerprint based on the received Wi-Fi signal; and a navigation service server configured to construct a plurality of Wi-Fi radio maps based on a plurality of second Wi-Fi fingerprints acquired at locations of the indoor environment, select a Wi-Fi radio map for estimating a location of the mobile terminal among the plurality of Wi-Fi radio maps, estimate the location of the mobile terminal by using a second Wi-Fi fingerprint corresponding to the first Wi-Fi fingerprint based on the selected Wi-Fi radio map, and form location information including the estimated location.

CC: G01C21/206; G0155/0252

UC: 701/409; 701/410

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Fig. 1/24

Patent Application Publication Mar. 22, 2012 Sheet 1 of 24 US 2012/0072106 A1

FIG. 1

FIG. 2

100

110a ACCESS POINT

110b ACCESS POINT

110c ACCESS POINT

120 MOBILE TERMINAL

130 NAVIGATION SERVICE SERVER

210 FIRST COMMUNICATION MODULE

220 FINGERPRINT FORMING UNIT

230 USER INPUT UNIT

240 STORAGE UNIT

250 NAVIGATION EXECUTING UNIT

260 OUTPUT UNIT

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