

1) Family number: 51962019 (US2012242481A)

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Title: APPARATUS AND METHOD FOR LOCATING, TRACKING, CONTROLLING AND RECOGNIZING TAGGED OBJECTS USING ACTIVE RFID TECHNOLOGY.

Priority: US20110064378 20110322 US20140269790 20140505

Family:

Publication number	Publication date	Application number	Application date
US2012242481 AA	20120927	US20110064378	20110322
US2014240088 AA	20140828	US20140269790	20140505
US8717165 BB	20140506	US20110064378	20110322
US9311586 BB	20160412	US20140269790	20140505
WO12129368 A1	20120927	WO2012US30046	20120322

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Inventor(s):(std): ROBINETTE JAMIE ; GERNANDT TASSILO

Agent(s): JUAN CARLOS A; MORRIS MANNING AND MARTIN LLP; BACON AND THOMAS PLLC; MARQUEZ JUAN CARLOS A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8-9): G05B19/00 G06K19/07 G06K19/077 G06K7/10 G07C9/00 G08B1/08 G08B13/14 G08B21/02 (Advanced/Invention); G08B13/24 G08B25/01 (Advanced/Non-invention)

CPC: G07C9/27 G07C9/28 G06K7/10237 G06K19/0705 G06K19/071 G06K19/0711 G06K19/07762 G08B13/1427 G08B13/2417 G08B21/0219 G08B21/0255 G08B21/0275 G08B25/016

US class: 1/1 340/5.61 340/539.13 340/572.1

[Classification Explorer](#)

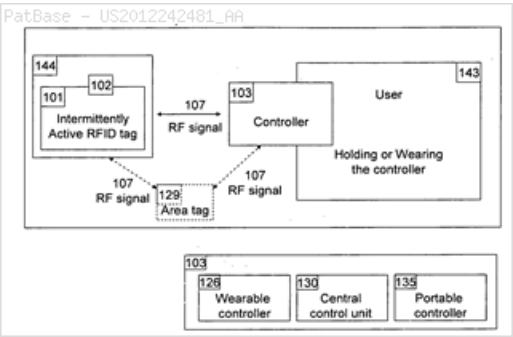
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Forward Citations: WO19204410, WO19118400, WO19118179, WO19098841, WO19032617, WO18203910, WO18104880, WO18023102, WO17200766, WO17134170, WO17120624, WO17116321, WO17106055, WO16179482, WO16177939, WO16177837, WO16090053, WO16043958, WO16043781, WO15147999, WO15044522, WO15011548, WO14205242, US9994242, US9993203, US9961489, US9947155, US9939913, US9916745, US9911301, US9886837, US9870057, US9867042, US9864425, US9861289, US9854385, US9851376, US9844206, US9836951, US9831724, US9824559, US9818003, US9811088, US9799203, US9798763, US9797729, US9786153, US9767330, US9740895, US9716517, US9711308, US9684765, US9665751, US9658622, US9632533, US9585245, US9563836, US9560975, US9536404, US9524385, US9514323, US9513666, US9507977, US9503846, US9483726, US9449479, US9449200, US9430889, US9411997, US9406179, US9384608, US9380698, US9378450, US9373014, US9330541, US9296326, US9275322, US9195866, US9178569, US9071282, US8998087, US8893969, US8644794, US8638190, US8565791, US8515413, US8504008, US2019090420, US2018227727, US2018124030, US2018096585, US2018096546, US2018091641, US2018058866, US2018029804, US2017361463, US2017352256, US2017234965, US2017228566, US2017178474, US2017164267, US2017076568, US2017064006, US2017017814, US2016284183, US2016266558, US2016266557, US2016240067, US2016217520, US2016189507, US2016156219, US2016117899, US2016091953, US2016069925, US2016063830, US2016050519, US2016049069, US2016036537, US2016019761, US2015370070, US2015348727, US2015325103, US2015302233, US2015242024, US2015154847, US2015088834, US2015002266, US2015002263, US2015001297, US2014286491, US2014260424, US2014075572, US2014028215, US2014005618, US2013352233, US2013324084, US2013188067, US2013187617, US2013135084, US2013099928, US2013057702, US2012000431, US10559146, US10552750, US10548509, US10546439, US10534437, US10524421, US10515237, US10509994, US10507984, US10507373, US10492033, US10483625, US10475185, US10452879, US10446002, US10438277, US10420473, US10410506, US10410487, US10410026, US10405153, US10403066, US10373408, US10359849, US10346649, US10345769, US10334675, US10325464, US10321872, US10318769, US10308220, US10306868, US10302757, US10292587, US10275036, US10244396, US10243941, US10235854, US10235820, US10231644, US10222449, US10222216, US10210744, US10209514, US10200812, US10198927, US10158550, US10146229, US10131505, US10126132, US10121028, US10116753, US10111618, US10109169, US10102698, US10094908, US10086117, US10080524, US10049194, US10040195, US10001843, US10001763, TWI614639, NO342210, NO20160840, KR20180005245, KR102034944, JP6490290, FR3047368, FR3047368, FR3035993, FR3035993, EP3292545, EP3292070, CN108960391, CN107771161, CN106128000, CN105913598, CN105708563, CN105389947, CN105375106, CN105375106, CN105374177, CN105005063, CN104252640, AU2016370370,

Abstract:

The present invention is directed to a miniaturized apparatus to locate, track, recognize and control objects using miniature RF circuits that are programmed as an active tag or as one of several embodiments of a controller, including one small enough to be incorporated into a personal object, like a ring. In its simplest embodiment, a portable or wearable controller communicates wirelessly with a tag secured to a surface, analogously to a car remote--push button, receive a signal from tag or back at the controller, to locate tagged object. In more complex forms, the tag can be integrated into objects or connected to a network. One controller can manage a plurality of tags. The basic platform of tag and controller can be built up to create a sophisticated area control with environmental sensors, inventory functions, tracking individuals and allowing or denying access, operating objects like doors and lights, and creating supporting ambient security with checks and balances between tags and controllers on people and their

possessions, such as baggage at an airport. Arrays of tag or controllers extend the wireless range to accommodate large structures and areas. This novel system is self-contained, with a low power protocol to give long battery life time and does not require internet or GPS to perform its functions.



2) Family number: 60999335 (US2015348341A)

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Title:	RADIO FREQUENCY FINGERPRINT DETECTION					
Priority:	US20140006605P	20140602	US20140072884P	20141030	US20150610612	20150130
	US20150610651	20150130	US20150610659	20150130	US20150610640	20150130
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	US20150667527	20150324	US20150692838	20150422	EP20150802866	20150602
	EP20150803780	20150602	EP20170189632	20150602	EP20170189635	20150602
	US20150728954	20150602	US20150728825	20150602	US20150728931	20150602
	WO2015US33832	20150602	WO2015US33826	20150602	EP20150854012	20151030
	US20150929212	20151030	US20150928974	20151030	WO2015US58516	20151030

Family:	Publication number	Publication date	Application number	Application date
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WO16070153 A1	20160506	WO2015US58516	20151030

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8-9): G01S3/02 G01S5/02 G05B19/00 G05B23/00 G06F12/14 G06F16/28 G06F16/951 G06F17/30 G06F7/00 G06F7/04 G06K19/00 G06K7/00 G06K9/00 G06K9/52 G06T7/00 G06T7/20 G06T7/60 G07C9/00 H04B1/00 H04B1/18 H04B17/10 H04B17/30 H04B17/318 H04B17/391 H04B7/00 H04B7/01 H04K3/00 H04L29/06 H04L9/32 H04N5/265 H04N7/18 H04W12/06 H04W12/08 H04W12/10 H04W12/12 H04W24/00 H04W24/08 H04W4/00 H04W4/02 H04W4/021 H04W4/22 H04W4/70 H04W4/90 H04W72/04 H04W84/18 H04W88/06 (Advanced/Invention); G08B13/00 H04W84/18 (Advanced/Non-invention)

CPC: G06T7/0042 H04W4/005 G06K7/0095 H04B1/0028 H04W12/1208 H04B1/0064 H04B7/01 H04L63/02 H04L63/1483 H04W72/0406 H04W72/0453 H04W88/06 G01S5/02 G06K9/00771 G06K2209/27 H04K2203/16 H04W4/021 G01S5/0242 G01S5/0263 G06F16/285 G06F16/951 G06K9/00718 G06K9/00744 G06K9/52 G06T7/20 G06T7/60 G08B13/00 H04B1/18 H04L63/1416 H04N5/265 H04W12/10 H04W24/08 H04W84/18 G07C2209/61 G07C2209/63 H04B17/318 H04L63/302 H04W4/027 H04W4/90 H04W12/00503 H04W12/12 H04L63/0853 H04L63/1425 H04L63/20 H04W12/06 H04W12/08 G07C9/22 G07C9/27 G07C9/28 H04K3/22 H04K2203/18 H04W4/70 H04B17/10 H04B17/391

US class: 1/1 340/5.2 340/5.81 348/143 455/404.2 455/500 455/67.16 726/1 726/11 726/22 726/23 726/7

[Classification Explorer](#)

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Assignee(s):(std): KHCHE AJAY ; TRACKONOMY SYSTEMS INC ; VOLKERINK ERIK
Inventor(s):(std): VOLKERINK ERIK ; KHCHE AJAY
Agent(s): LAW OFFICE OF EDOUARD GARCIA; GARCIA EDOUARD
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8-9): B32B37/06 B32B37/12 B60C23/04 B65C9/18 C09J7/38 G01K1/02 G06K19/04 G06K19/06 G06K19/07 G06K19/077 G06K19/08 G06Q10/06 G06Q10/08 G06Q50/28 H01L35/02 H02J50/10 H02J7/02 H02J7/32 H04L29/08 H04W4/02 H04W4/029 H04W4/80 H04W84/20 (Advanced/Invention); H04W4/02 (Advanced/Non-invention)

CPC: H04W4/028 H02J7/32 G01K1/024 H04L67/12 H02J7/025 H02N2/0075 H01L35/02 B60C23/0408 G06K19/0723 G06K19/0704 H02J50/10 H04W4/027 H04W4/029 B32B37/06 B32B37/12 B32B2457/00 C09J7/38 C09J2201/128 C09J2201/606 C09J2203/326 C09J2205/10 C09J2463/00 G06K19/06037 G06K19/0702 G06K19/07773 C09J7/29 C09J2483/00 G06K19/07718 G06K19/07749 G06K19/0776 H04W4/02 B65C2009/0003 H04W4/80 H04W84/20 B65C9/1869 C09J7/20 G06Q10/06 G06Q10/08 G06Q50/28 H04L29/08

US class: 1/1 156/60 235/492 455/456.1

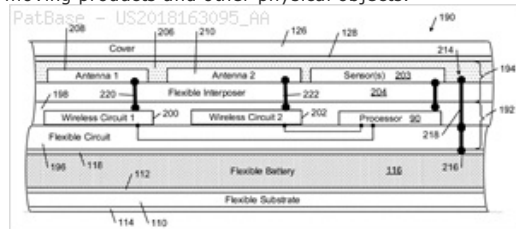
[Classification Explorer](#)

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Forward Citations: WO19118402, US10397753,

Abstract:

A low-cost, multi-function tracking system with a form factor that unobtrusively integrates the components needed to implement a combination of different localization techniques and also is able to perform a useful ancillary function that otherwise would have to be performed with the attendant need for additional materials, labor, and expense. An example tracking system is implemented as an adhesive product that integrates tracking components within a flexible adhesive structure in a way that not only provides a cost-effective platform for interconnecting, optimizing, and protecting the components of the tracking system but also maintains the flexibility needed to function as an adhesive product that can be deployed seamlessly and unobtrusively into various tracking applications and workflows, including person and object tracking applications, and asset management workflows such as manufacturing, storage, shipping, delivery, and other logistics associated with moving products and other physical objects.



Priority: US20170492565P 20170501 US20170557627P 20170912 WO2018IB52969 20180430
US20180675137P 20180522 US20190420026 20190522

Family:

Publication number	Publication date	Application number	Application date
AU2018262364 AA	20191121	AU20180262364	20180430
CA3061878 AA	20191029	CA20183061878	20180430
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WO19224604 A2	20191128	WO2019IB00692	20190522
WO19224604 A3	20200213	WO2019IB00692	20190522

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Inventor(s): WILLIAMS THOMAS RICHARD

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8-9): B62J99/00 F04B49/00 G01B21/32 G01C9/00 G01D21/00 G01D21/02 G01L3/00 G01L5/00 G01M13/00 G01M17/007 G06F16/909 H02J7/02 H02J7/35 H04W4/021 H04W4/12 H04W4/38 H04W4/80 H04W40/24 H04W64/00 H04W88/06 (Advanced/Invention); F04B47/02 (Advanced/Non-invention)

CPC: F04B47/02 F04B47/022 F04B49/065 F04B49/00 G01L5/0061 G01M7/00 G01C9/06 G01C9/08 H02J7/35 H04W4/021 H04W40/244 G06F16/909 G01B21/32 G01D21/00 H04W4/029 H04W4/38 H04W4/80 H04W64/00 H04W4/40 H02J7/025 B62J99/00 H02J7/32 H02J50/001 H02J2310/40

[Classification Explorer](#)

Cited documents: US9896927 BB, US8989053 BA, US7196621 BB, US5464058 A, US2017363079 AA, US2012322380 AA, CN106767617 A, CN102435366 B,

Abstract:
A solar wireless collector beacon (data hub) and associated method stores source data, received wirelessly from a data source, in a data buffer of the data hub. Sensor data is read from one or more onboard sensors of the data hub and stored as structural and/or environmental data in the data buffer. The environmental data is processed to determine an operating status of a vehicle being used with the data hub and an energy harvester of the vehicle is controlled to harvest energy from the vehicle based on the operating status. One or more of the operating status, the source data, and the environmental data is wirelessly transmitted from the data hub to an external device.

