

1) Family number: 70423133 (AR107909A)

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Title: MEDIOS DE INFORMACION CODIFICADA SITUADOS EN UNA INFRAESTRUCTURA PARA SER DECODIFICADOS POR SENSORES SITUADOS SOBRE MOVILES Coded information means located on an infrastructure to be decoded by sensors located on mobile (Machine translation)

Priority: AR2017P100667 20170317

Family:

Publication number	Publication date	Application number	Application date
AR107909 AA	20180628	AR2017P100667	20170317

Probable Assignee: AUTO DRIVE SOLUTIONS S L

Assignee(s):(std): AUTO DRIVE SOLUTIONS S L

Assignee(s): AUTO DRIVE SOLUTIONS SL

Inventor(s):(std): BADOLATO MARTIN ALEJANDRO

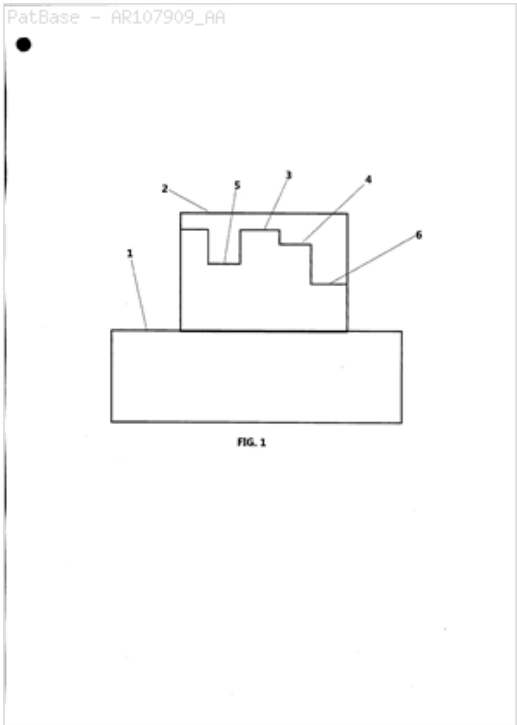
International class G06K19/06 (Advanced/Invention)

(IPC 8-9):

[Classification Explorer](#)

Abstract:

Source: AR107909A [ES] Medios de informacion codificada situados sobre una infraestructura para ser decodificados por sensores situados sobre moviles, de forma que estos medios codifican la posicion que ocupan en la infraestructura y permiten que un movil que se desplaza por la misma trayectoria, provisto del sensor adecuado, pueda leerla, decodificarla y transformarla inmediatamente en informacion sobre su exacta posicion en la infraestructura y caracterizados porque a lo largo de la trayectoria que describe un movil es posible codificar informacion en la infraestructura mediante diferentes objetos que presentan fronteras de cambios dielectricos y fronteras dielectrico-metal a diferentes alturas y distancias respecto del origen del sensor embarcado, siendo estas fronteras interrogadas por un sensor embarcado en el movil mediante ondas de presion o electromagneticas y midiendo el tiempo que tardan las ondas en retornar al sensor, es posible determinar la distancia a la cual se producen las reflexiones y de esta manera extraer la informacion. **Machine translation:** Coded information means located on an infrastructure to be decoded by sensors located on mobile, so that these means encoding the position occupied in the infrastructure and allow a mobile that travels the same path, provided with the suitable sensor, can read it, decode it and transform it immediately on information on its exact position in the infrastructure and characterized along the path that describes a cell it is possible to encode information in the infrastructure through different objects that have borders and boundaries dielectric/metal dielectric changes at different heights and distances with respect to the origin of the onboard sensor, these being interrogated by a sensor embarked on the cell boundaries by pressure or electromagnetic waves And measuring the time it takes the wave to return to the sensor, it is possible to determine the distance at which the reflections and in this way extract the information.



2) Family number: 28334184 (US6529154B)

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Title: Method and apparatus for reading two dimensional identification symbols using radar techniques

Priority: US20000528795 20000316

Family:

Publication number	Publication date	Application number	Application date
US6529154 BA	20030304	US20000528795	20000316

Probable Assignee: MICROSCAN SYSTEMS INC

Assignee(s):(std): NASA

Assignee(s): NATIONAL AERONAUTICS AND SPACE AMINISTRATION ; NATIONAL AERONAUTICS AND SPACE AMINISTRATIONWASHIN ; ROBOTIC VISION SYSTEMS INC ; SIEMENS AG ; SIEMENS ENERGY AND AUTOMATION INC ; THE UNITED STATES OF AMERICA AS REPRESENTED BY THE ; THE UNITED STATES OF AMERICA AS REPRESENTED BY THE ADMINISTRATOR OF THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION ; ACUITY CIMATRIX INC ; MICROSCAN SYSTEMS INC

Inventor(s):(std): ROXBY DONALD L ; SCHRAMM JR HARRY F

International class (IPC 8-9): G01S13/89 (Advanced/Invention); G01S13/02 (Advanced/Non-invention); G01S13/00 (Core/Invention)

International class (IPC 1-7): G01S13/00 G01S13/74

CPC: G01S13/0209 G01S13/89

European class: G01S13/89 S01S13/02B

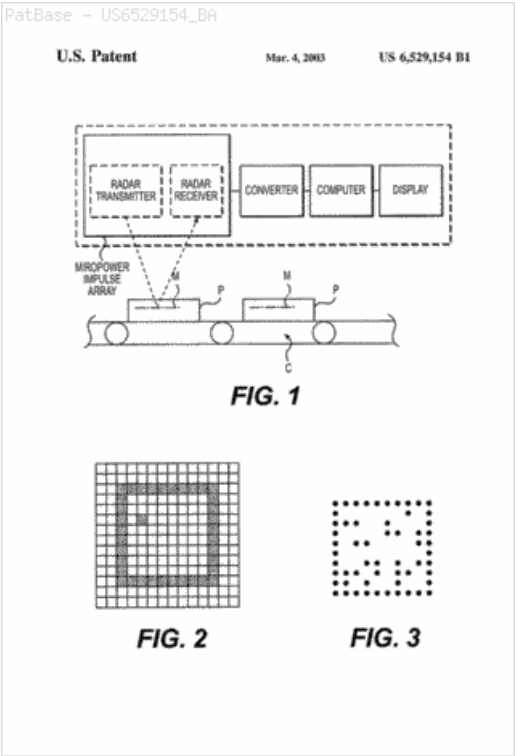
US class: 342/195 342/21 342/42 342/43 342/44 342/5 342/51 342/6

[Classification Explorer](#)

Cited documents: USRE26292 E, US5767802 A, US5486830 A, US5003600 A, US3521280 A, US3488655 A, US3467962 A, US3366952 A, US3362025 A, US3311915 A, US3247510 A, US3247509 A, US3247508 A,

Forward Citations: WO18096388, WO17149357, WO15200166, WO09026372, US9869120, US9316038, US8178829, US8167212, US7969281, US7187183, US2014266589, US2009231104, US2009095886, US2009014520, US2006119768, US2004239338, US2002057401, US10228458, JP6310101, JP2017528780,

Abstract:
A method and apparatus are provided for sensing two-dimensional identification marks provided on a substrate or embedded within a substrate below a surface of the substrate. Micropower impulse radar is used to transmit a high risetime, short duration pulse to a focussed radar target area of the substrate having the two dimensional identification marks. The method further includes the steps of listening for radar echoes returned from the identification marks during a short listening period window occurring a predetermined time after transmission of the radar pulse. If radar echoes are detected, an image processing step is carried out. If no radar echoes are detected, the method further includes sequentially transmitting further high risetime, short duration pulses, and listening for radar echoes from each of said further pulses after different elapsed times for each of the further pulses until radar echoes are detected. When radar echoes are detected, data based on the detected echoes is processed to produce an image of the identification marks.



Family number: 66904634 (ZA201806269A) © PatBase

Title: ENCODED INFORMATION MEANS LOCATED ON AN INFRASTRUCTURE TO BE DECODED BY SENSORS LOCATED ON MOBILE OBJECTS

Priority: WO2016IB51159 20160302 ZA20180006269 20180918

Family:

Publication number	Publication date	Application number	Application date
AU2016395036 AA	20181018	AU20160395036	20160302
BR112018067526 A2	20190102	BR20181167526	20160302
CA3016166 AA	20180829	CA20163016166	20160302
CN108780513 A	20181109	CN201680083143	20160302
CO20180009435 A2	20180920	CO20180009435	20160302
CR20180416 A	20190131	CR20180000416	20160302
CU20180096 A7	20181106	CU20180000096	20160302
EA201891900 A1	20190228	EA20180091900	20160302
EP3425567 A1	20190109	EP20160834224	20160302
IL261437 A0	20181031	IL20160261437	20160302

IN201827033853 A	20190111	IN201827033853	20180908
JP2019510307 T2	20190411	JP20180545864T	20160302
KR20180118142 A	20181030	KR20187025731	20160302
MX2018010488 A1	20190110	MX20180010488	20160302
PH2018550143 A	20190318	PH20180550143	20180830
SG11201807492Q A1	20180927	SG20181107492	20160302
WO17149357 A1	20170908	WO2016IB51159	20160302
ZA201806269 A	20190626	ZA20180006269	20180918

Probable Assignee: AUTO DRIVE SOLUTIONS S L

Assignee(s):(std): AUTO DRIVE SOLUTIONS S L ; BADOLATO MARTIN ALEJANDRO

Assignee(s): AUTO DRIVE SOLUTIONS SL

Inventor(s):(std): ALEJANDRO BADOLATO MARTIN ; BADOLATO MARTIN ALEJANDRO

Agent(s): MDP PATENT AND TRADE MARK ATTORNEYS; ROBIC; LAHIDALGA DE CAREAGA JOSE LUIS; MIYOSHI HIDEKAZU

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): B61L25/02 G06K G06K19/06 G06K7/02 G06K7/10 G08G1/00 (Advanced/Invention); G06K (Subclass/Invention)

International class (IPC 1-7): G06K19/06

CPC: G06K19/06

[Classification Explorer](#)

Cited documents: US6529154 BA, US5023434 A, US2996137 A, US2006175412 AA, ES2015070378, EP2037226 A2,

Abstract:
The invention relates to coded-information means located on an infrastructure so as to be decoded by sensors located on mobile objects, such that said means code the position that they occupy on the structure and allow a mobile object travelling along the same path and provided with the appropriate sensor, to be able to read and decode the information and immediately transform same into information about the exact position of the means on the infrastructure. The means are characterised in that, along the path that a mobile object describes, it is possible to code information on the infrastructure by means of various objects having dielectric change boundaries and dielectric-metal boundaries at different heights and distances with respect to the origin of the mounted sensor. The boundaries are analysed, by means of pressure waves or electromagnetic waves, by a sensor mounted on the mobile object. By measuring the time it takes for the waves to return to the sensor, it is possible to determine the distance at which the reflections are produced and thereby extract the information.

