

Nicolas Vargas

Search history

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1:
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21:
Search [SP]: 1. what is claimed is: 1. an electric held meter comprising a rotating rod having loops on each end, shaft means connected through insulation to the midpoint of said rod, driving means coupled to said shaft means, means for successively exposing each end of said rod to the field to be measured over approximately 180 of the rotation of said rod, brush means coupled to said rod for obtaining an alternating electrical signal therefrom, an a.-c. generator coupled to said shaft for rotation therewith to produce a reference signal in synchronism with said alternating electrical signal, a transformer coupled to said brush means through amplihcr means, the secondary of said transformer having a center tap and having each end coupled through a rectifier to a corresponding end of a balancing resistor, an adjustable contact on said resistor, one side of said generator output being coupled to said center tap the other side of said generator output being coupled to said adjustable contact and meter means connected to said resistor for determining the net d.-c. signal through said resistor. 2. an electric field meter comprising rotating shaft means, means for driving said shaft, inductive rod means having a loop on each end connected at its midpoint through insulating means to said rotating shaft means, means for successively exposing each half of said rod means to the electric held to be measured over approximately 180 of rotation of said shaft, brush means coupling each half of said rod means to an a.-c. amplifier, said amplifier being coupled to the primary winding of a transformer, the secondary winding of said transformer having a center lap, an a.-c. generator connected to said rotate therewith and produce a reference signal in synchronism with the output from said inductor means, said center tap being connected to one side of the output from said generator, a rectifier connecting the ends of said secondary winding to opposite ends of a balancing resistor, an adjustable sliding contact coupled to the center of said resistor, the other side of the output from said generator being coupled to said sliding contact, and d.-c. meter means connected across said resistor for registering the unbalance signal across said resistor. 3. a held meter as deined in claim 2 including slinger ring means on said shaft between said rod means and said shaft driving means. (Results 27)
22:
Search 22 and control* (Results 8)
23:

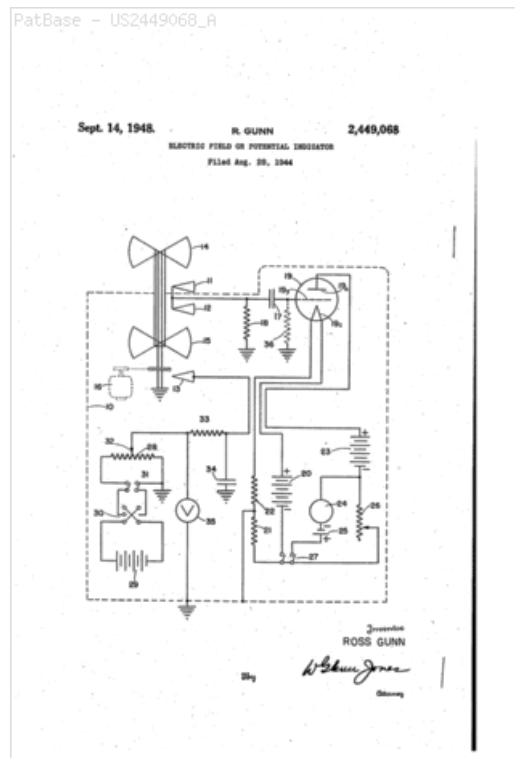
1) Family number: 21747853 (US2449068A)

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Title: ELECTRIC FIELD OR POTENTIAL INDICATOR

Abstract: Source: US2449068A 1. Apparatus for measuring electricvield Intensity comprising rneang for duplicating Wi` illi'1 a shielded space the intensity of the field being measured, dynamic means for obtaining from the field being measured a first signal proportional to -the held and a second signal proportional to the duplicating field, means operative to indicate a difference between the nrst and second signals, and means operative to indicate the intensity of the duplicating

US: 324/120 324/458 324/72 324/98



Family:

Publication number	Publication date	Application number	Application date
US2449068 A	19480914	US19440551595	19440828

Priority:

US19440551595 19440828

Probable Assignee:

ROSS GUNN

Assignee(s): (std):

ROSS GUNN

Inventor(s): (std):

ROSS GUNN

Inventor(s):

GUNN ROSS

2) Family number: 202648 (US3470551A)

Title: FIRE AND SMOKE DETECTOR

Abstract: Source: US3470551A ABSTRACT OF THE DISCLOSURE

Abstract: Source: 033476551A ABSTRACT OF THE DISCLOSURE
A fire and smoke detector including an electrical conductor which has induced thereon an electrical charge when approached by the net electrical charge carried by smoke and combustion by-products. A perforated shield surrounds the electrical conductor to screen the conductor from external charges and external electrical fields while at the same time permits the flow of smoke and combustion by-products therethrough. Amplifying and alarm apparatus are provided responsive to the establishment of the induced charge on the conductor signifying the presence of smoke and combustion products.

Classifications:

International (IPC 8-9): F23N5/00 G01N27/60 G01N27/62

G08B17/10 G08B17/12 (Advanced/Invention);

F23N5/00 G01N27/60 G01N

G08B17/12 (Core/Invention)

International (IPC 1-7)

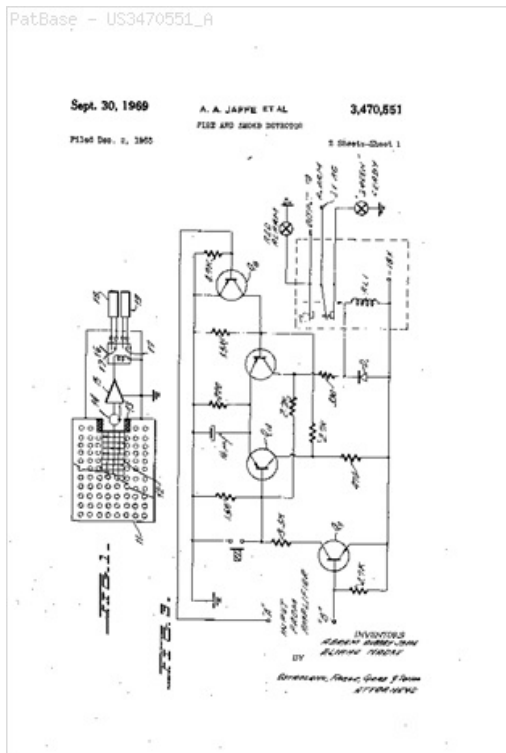
G08B21/00 H01J47/02

CPC: G08B: G08B17/12

G08B17/12

European:
G08B17/12

US: 340/237 340/629 361/170 361/187

**Family:**

Publication number	Publication date	Application number	Application date
CH446961 A	19671115	CH19650017809	19651223
DE1277711 B	19680912	DE1965Y001016	19651223
FR1473061 A	19670317	FR19650043371	19651222
GB1087609 A	19671018	GB19650053699	19651217
IL22673 A1	19680620	IL19640022673	19641227
NL6516966 A	19660325	NL19650016966	19651227
US3470551 A	19690930	US19650511100	19651202

Priority:

IL19640022673 19641227

Probable Assignee: JAFFE A

Assignee(s): (std): JAFFE A ; NADAV E ; YISSUM RES DEV CO ; YISSUM RES DEV COMPANY ; YISSUM RESEARCH DEV CO HEBREW

Assignee(s): YISSUM RESEARCH DEVELOPMENT CO ; YISSUM RESEARCH DEVELOPMENT CO HEBREW UNIVERSITY ; YISSUM RESEARCH DEV CO ; YISSUM RESEARCH DEVELOPMENT COMPANY

Inventor(s): (std): ABRAHAM AUBREY JAFFE ; ELIAHU NADAV ; JAFFE ABRAHAM AUBREY ; NADAV ELIAHU

Inventor(s): ABRAM AUBREY JAFFE ; AUBREY JAFFE ABRAHAM

3) Family number: 23774163 (US3253207A)

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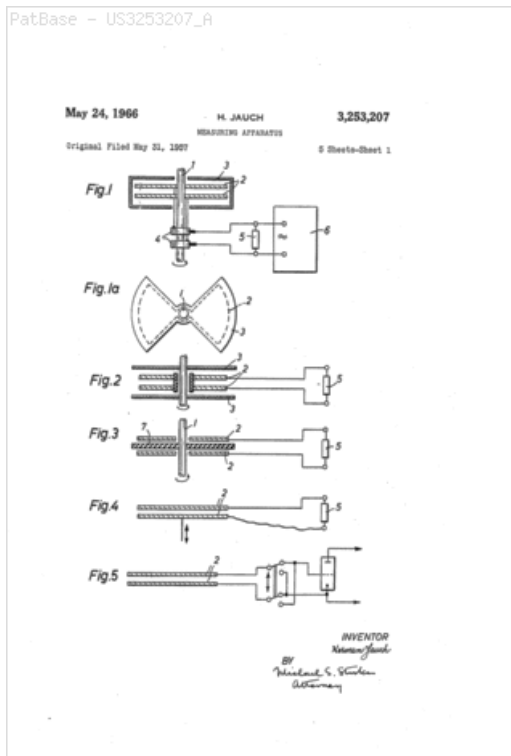
Abstract: Source: US3253207A (Claim 1) 1. In a measuring apparatus for measuring an electrostatic field, in combination, a pair of spaced capacitor plates; resistance means interconnecting said capacitor plates; a pair of spaced field plates arranged on opposite sides of and spaced from said capacitor plates; means for periodically short-circuiting and disconnecting said field plates to and from each other; amplifier means for amplifying a voltage caused by the flow of capacitance current through said resistance means at such times as said field plates are short-circuited.; and charging means connected to the output of said amplifier means for charging said field plates, after the same have been disconnected from each other, to such an extent that they are electrically neutral relative to each other.

Classifications:

International (IPC 1-7): G01R29/12

CPC: G01R29/12

US: 324/72 361/298.1

**Family:**

Publication number	Publication date	Application number	Application date
US3253207 A	19660524		00000000

4) Family number: 22997014 (US3344344A)

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Title: ELECTRIC CHARGE RESPONSIVE DEVICE

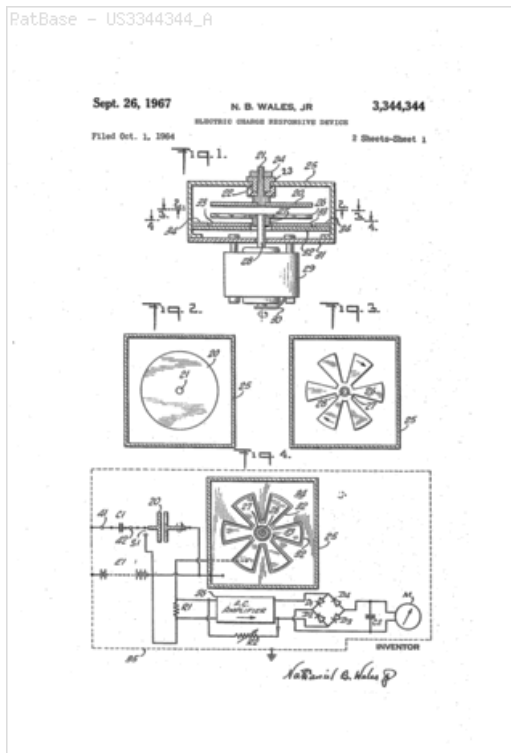
Abstract: Source: US3344344A (Claim 1) 1. A charge responsive device comprising: An electrostatic induction electrode; an input electrode spaced and insulated from said induction electrode; a first shield cage substantially surrounding and insulated from both said induction electrode and said input electrode; a shielding vane electrically connected to said first shield cage; mechanical means alternately to insert and to withdraw said vane into shielding relation between said input electrode and said induction electrode; a load impedance connecting said vane and said induction electrode; and amplifying means to measure the current flowing in said load impedance.

Classifications:**International (IPC 8-9):** G01T1/142 (Advanced/Invention);

G01T1/02 (Core/Invention)

International (IPC 1-7): G01R29/12 G01T1/14**CPC:** G01T1/142**European:** G01T1/142**US:** 324/458 324/72

PatBase - US3344344_A

**Family:**

Publication number	Publication date	Application number	Application date
US3344344 A	19670926	US19640400864	19641001

Priority:

US19640400864 19641001

Probable Assignee:

WALES JR NATHANIEL B

Assignee(s): (std):

WALES JR NATHANIEL B

Inventor(s): (std):

WALES JR NATHANIEL B

Inventor(s):

JR NATHANIEL B WALES

5) Family number: 11583859 (US5315232A)

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Title: Electric field measuring system

Abstract: Source: US5315232A A system for measuring and recording DC electric field data at multiple locations using field mill sensors having periodically exposed sensing electrodes to provide cyclic signals, relating to the field amplitude and polarity, which are demodulated by phase synchronous detection to provide measurement of the field at an indicator which is calibrated and checked by intermittently applying to a rotor electrode a DC voltage determine calibration data for sensor indicators. Phase and frequency adjusting circuits **control** sensor motor/rotor speed and the signals generated for optimum polarity and amplitude measurement. Motor speed is **controlled** to minimize effects of external noise. Contamination degradation of sense electrode insulators is measured by comparing output signals as the rotor is changed between rotating and stopped conditions. Metal modulator parts are finished with extremely smooth polished surfaces. A central computer communicates with all remote sensors to record data and to monitor and **control** system operation and to provide appropriate alarms related to electric field intensities and to the operating condition of the sensors.

Classifications:

International (IPC 8-9): G01R29/12 (Advanced/Invention);

G01R29/12 (Core/Invention)

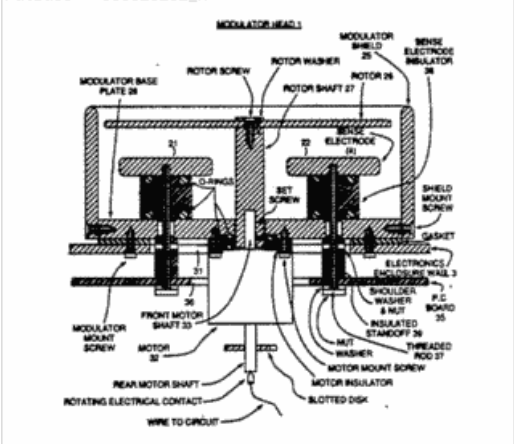
International (IPC 1-7): G01R29/12 G01R31/02

CPC: G01R29/12

European: G01R29/12

US: 324/457 324/72

PatBase - US5315232_A



Family:

Publication number	Publication date	Application number	Application date
US5315232 A	19940524	US19910637307	19910103

Priority:

US19910637307 19910103

Probable Assignee:

STEWART MICHAEL F

Assignee(s): (std):

STEWART MICHAEL F

Inventor(s): (std):

STEWART MICHAEL F

6) Family number: 10263880 (US5450005A)

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Title: Net charge measurement of dielectrics in ground potential equilibrium, as a function of time and temperature

Abstract: Source: US5450005A A motor assembly (A) cyclically moves a sample (34) longitudinally through the longitudinally aligned central bores (16, 18) of a pair of hollow electrodes (12, 14). One of the electrodes (14) is connected with a Faraday shield (10) which electrically shields the electrodes and the sample and the other electrode (12) is electrically insulated from the Faraday shield. Preferably, the Faraday shield structure further serves as a hermetic seal for sealing the hollow electrodes against adverse effects of the ambient atmosphere. An electrical instrument (C) is connected across the two hollow electrodes to measure the induced charge transfer or potential difference as the sample cyclically moves back and forth between the hollow bores of the two electrodes.

Classifications:

International (IPC 8-9): G01R15/16 G01R29/12 G01R29/24

G01V3/00 (Advanced/Invention);

G01R15/14 G01R29/12 G01R29/24 (Core/Invention)

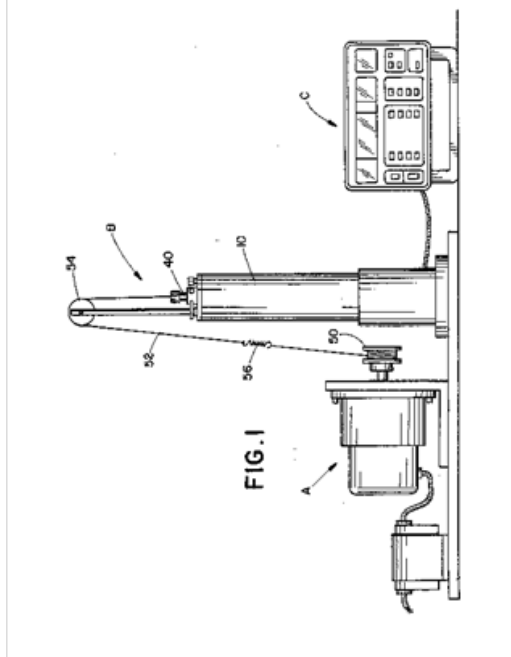
International (IPC 1-7): G01R15/16 G01R27/26 G01R29/12

G01R29/24 G01R31/02 G01R5/28

CPC: G01R15/165 G01R29/24

European: G01R15/16B G01R29/24

US: 324/452 324/457 324/72

**Family:**

Publication number	Publication date	Application number	Application date
DE69428311 D1	20011025	DE19946028311	19940721
DE69428311 T2	20020704	DE19946028311T	19940721
EP0635724 A2	19950125	EP19940305415	19940721
EP0635724 A3	19961211	EP19940305415	19940721
EP0635724 B1	20010919	EP19940305415	19940721
JP3481682 B2	20031222	JP19940168373	19940720
JP7077550 A2	19950320	JP19940168373	19940720
RU94026274 A	19960527	RU19940026274	19940720
RU94026274 A1	19960527	RU19940026274	19940720
US5450005 A	19950912	US19930095395	19930721

Priority:

RU19940026274 19940720 US19930095395 19930721

Probable Assignee: TRUST OF THOMAS F PETERSON JR DATED

Assignee(s): (std): PETERSON JR THOMAS F ; PETERSON JUN ; PETERSON THOMAS F ; TOMAS F PETERSON MLADSHIJ ; TOOMASU EFU PIITAASON JIYUNIA

Assignee(s): TRUST OF THOMAS F PETERSON JR DATED ; TOMAS FPETERSON MLADSHIJ ; PETERSON THOMAS F JR ; THOMAS F PETERSON JR

Inventor(s): (std): PETERSON JR THOMAS F ; TOMAS F PETERSON MLADSHIJ ; TOOMASU EFU PIITAASON JIYUNIA ; PETERSON JUN ; PETERSON THOMAS F JR

Inventor(s): TOMAS FPETERSON MLADSHIJ

Designated states: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

7) Family number: 31992992 (US2005127890A)

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Title: ELECTRIC-FIELD METER HAVING CURRENT COMPENSATION

Abstract: Source: US2005127890A An electric-field meter provided with a housing, an electrode assembly, a shield assembly, a movement assembly, a position detection assembly, a charge measurement circuit, and a leakage current compensation circuit. The electric-field meter can be characterized as a field mill, an induction voltmeter, an electrostatic fluxmeter or an agrimeter. The electrode assembly is selectively exposed to the electric field. The shield assembly alternately covers and exposes the electrode assembly to the electric field. The movement assembly has a source of motive force and a linkage operably connected to one of the shield assembly and the electrode assembly for alternately covering and exposing the electrode assembly to the electric field. The charge measurement circuit receives charge on the electrode assembly. The charge measurement circuit provides a charge detection signal indicative of the charge induced on the electrode assembly as the electrode assembly is selectively exposed to the electric field. A current compensation circuit is provided for offsetting an average leakage current at the input of the charge measurement circuit.

Classifications:

International (IPC 8-9): G01N27/62 G01R29/12

G01R31/02 (Advanced/Invention);

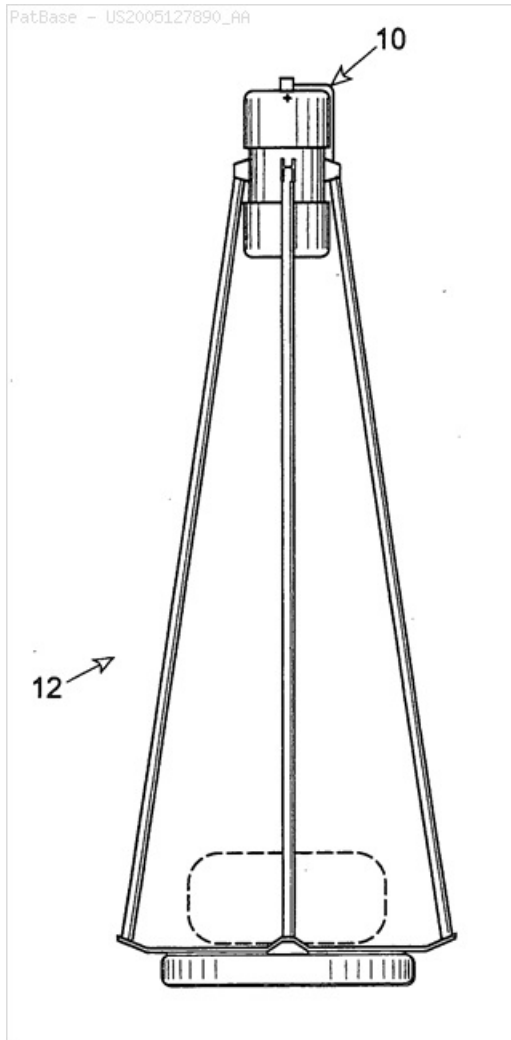
G01N27/62 G01R31/02 (Core/Invention)

International (IPC 1-7): G01R31/02

CPC: H02G13/60 G01R29/12 H02G13/00

European: G01R29/12 H02G13/00

US: 324/457 324/458 324/458P 324/72 324/72P

**Family:**

Publication number	Publication date	Application number	Application date
US2005127890 AA	20050616	US20040808648	20040325
US2006279290 AA	20061214	US20060502138	20060810
US6984971 BA	20060110	US20020094942	20020314
US7109698 BB	20060919	US20040808648	20040325
US7256572 BB	20070814	US20060502138	20060810

Priority:

US20010275763P 20010314 US20020094942 20020314 US20040808648 20040325
 US20060502138 20060810

Probable Assignee: REGENT OF UNIV OF OK

Assignee(s): (std): BEASLEY WILLIAM H ; SWENSON JODY A ; BYERLEY LEON G ; BOGOEV IVAN G ; REGENTS UNIV OF OKLAHOMA ; BOARD OF REGENT OF THE UNIVERSITY OF OKLAHOMA ; REGENT OF THE UNIVERSITY OF OK ; REGENT OF UNIV OF OK

Assignee(s): BOARD OF UNIV OF OKLAHOMA ; BOARD OF UNIV ; THE BOARD OF REGENTS UNIVERSITY OF OKLAHOMA ; BOARD OF REGENT OF THE UNIVERSITY OF OKLAHOMA ; BOARD OF REGENT OF UNIV OF OKLAHOMA ; BOARD OF REGENT OF UNIV OKLAHOMA ; BOARD OF REGENTS UNIV OF OKLAHOMA ; BOARD OF REGENTS UNIV OKLAHOMA

Inventor(s): (std): BEASLEY WILLIAM H ; BOGOEV IVAN G ; BYERLEY LEON G ; SWENSON JODY A

Inventor(s): SWENSON JODY ; BYERLEY LEON ; BOGOEV IVAN ; BEASLEY WILLIAM

Agent(s): DUNLAP CODDING AND ROGERS PC

8) Family number: 44112524 (US2011062968A)

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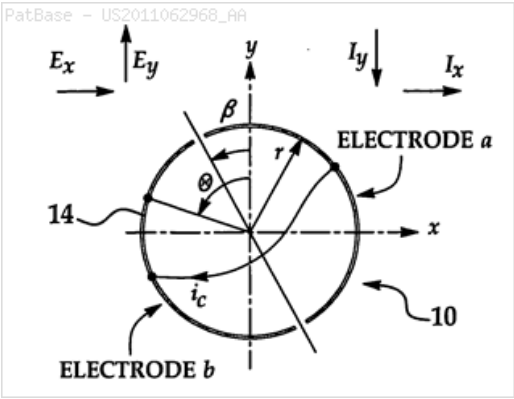
Title: ROTATING ELECTRIC-FIELD SENSOR

Abstract: Source: US2011062968A A compact instrument package consisting of a rotating sensor and supporting signal-processing electronics is capable of measuring two-dimensional electric-field vectors, ranging from DC to an arbitrary upper AC frequency not limited by the rotation rate, with highly improved accuracy and sensitivity when compared with previous art. In addition, contrary to previous art, the sensor can measure the electric field gradient at its location. This is achieved by the use of a combination of quadrature modulation and phase-sensitive quadrature demodulation digital signal processing in a generic rotating electric-field sensor. Ground isolated versions of the instrument can be used singly or in arrays when precise measurements of the electric fields are necessary. Either grounded or isolated versions of the instrument can operate continuously without the need for internal batteries, making it extremely attractive for a wide-range of industrial and space applications. Operational modes have been developed to distinguish the effects of ion currents and charged particles impacting the sensor from the local ambient electric field. Moreover, particular versions of the instrument can be operated in corrosive environments and conducting fluids.

Classifications:

International (IPC 8-9): G01R27/28 G01R29/12

H02P6/16 (Advanced/Invention);
G01R27/26 (Advanced/Non-invention);
G01R29/12 H02P6/14 (Core/Invention)
CPC: G01R27/2611 G01R29/12 H02P6/16
European: G01R29/12 H02P6/16
US: 324/458 324/654 324/654P



Family:

Publication number	Publication date	Application number	Application date
US2011062968 AA	20110317	US20090992510	20090602
US8536879 BB	20130917	US20090992510	20090602
WO09148572 A2	20091210	WO2009US03349	20090602
WO09148572 A3	20100325	WO2009US03349	20090602

Priority:

US20080058022P 20080602 US20090992510 20090602 WO2009US03349 20090602

Probable Assignee: THE UNIV OF MICHIGAN

Assignee(s): (std): RENNO NILTON O ; ROGACKI STEVEN A ; UNIV MICHIGAN

Assignee(s): NATIONAL SCIENCE FOUNDATION ; THE REGENTS OF THE UNIVERSITY OF MICHIGAN ; THE UNIV OF MICHIGAN

Inventor(s): (std): RENNO NILTON O ; ROGACKI STEVEN A

Agent(s): HOWARD AND HOWARD ATTORNEYS PLLC; YEE JAMES R

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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW