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(71) Applicant (for all designated States except US): **PARADIGM SENSORS LLC** [US/US]; 4265 N. 30th Street, Second Floor, Milwaukee, WI 53216 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KOEHLER,**

Charles J. III [US/US]; 2929 North 79th Street, Milwaukee, WI 53222 (US). **HIRTHER, Richard W.** [US/US]; 3008 South Superior Street, Milwaukee, WI 53207 (US).

(74) Agent: **FRENCHICK, Grady J.**; Whyte Hirschboeck Dudek S.C., 33 East Main Street, Suite 300, Madison, WI 53703 (US).

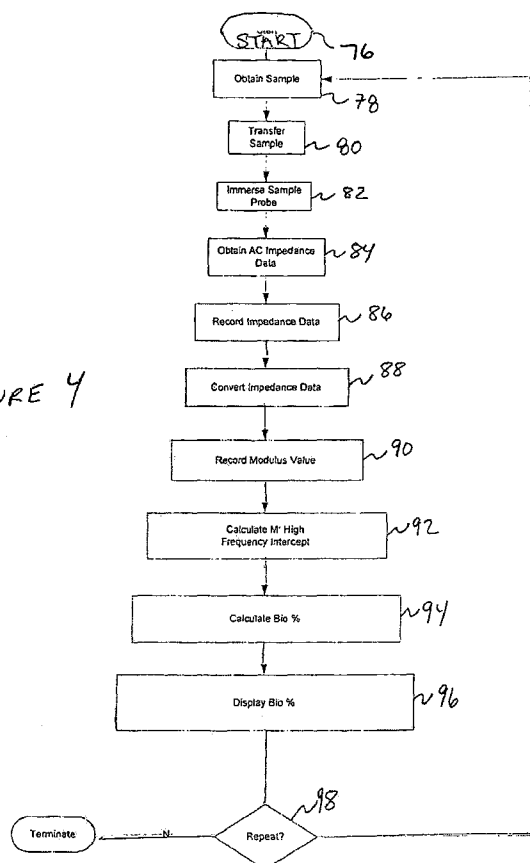
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(54) Title: METHOD FOR DETERMINING FLUID PROPERTIES

FIGURE 4



(57) Abstract: Disclosed herein is a method for determining two or more properties of a blended biofuel fluid sample, the method comprising measuring a complex impedance of the sample at each of a plurality of frequencies to produce a sample data set, determining a biofuel blend percentage of the sample using the sample data set; and determining at least one additional property of the sample based upon the determined biofuel blend percentage. In another aspect, a biofuel blend percentage of the sample can be determined using an algorithm developed using a data gathering and data mining technique relating measured impedance spectroscopy data from a plurality of samples to biofuel blend percentage values determined using a standard analytical measuring method for biofuel blend percentages,



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FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL,
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PCT/US2008/082014**A. CLASSIFICATION OF SUBJECT MATTER***G01N 33/22(2006.01)i, G01N 33/00(2006.01)i, G01N 33/48(2006.01)i, G01N 27/02(2006.01)i, G01N 27/00(2006.01)i*

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC : G01N

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 since 1975

Japanese Utility models and applications for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKIPASS(KIPO internal), "biofuel analysis"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2007/0152155 A1 (HAN-WEN CHU et al.) 5 July 2007. see abstract and claims 1-16	1-17
A	US 2004/0115748 A1 (JOAN KELLEY) 17 June 2004. see abstract and claims 1-10	1-17



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

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Information on patent family members

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