

Diego Gonzalez Castillo

1) Family number: 57609538 (CO7040204A)

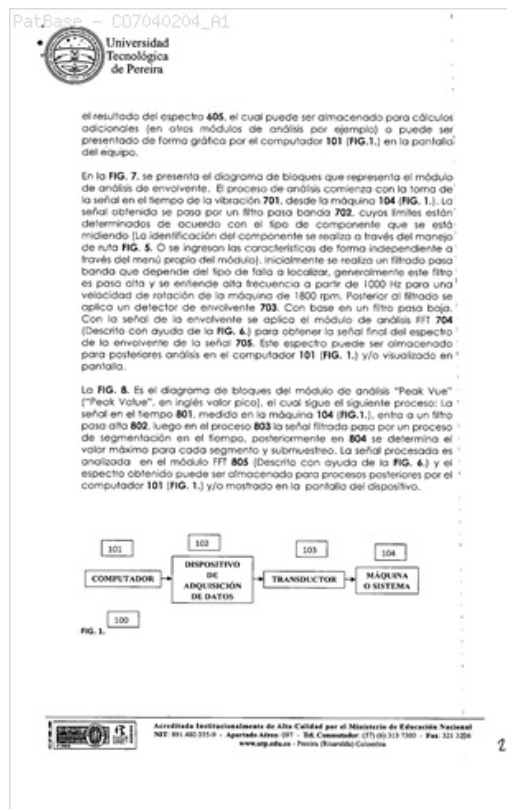
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Title: EQUIPO PORTATIL PARA EL DIAGNOSTICO DE FALLAS EN MAQUINAS BASADO EN ANALISIS DE VIBRACIONES
PORTABLE EQUIPMENT FAILURE DIAGNOSIS BASED MACHINE VIBRATION ANALYSIS (Machine translation)

Abstract: Source: CO7040204A [ES] El presente invento describe un equipo portatil para el diagnostico de fallas en maquinas utilizando senales de vibraciones, y tambien el sistema para analizar la condicion de la maquina y determinar fallas en la maquina. El equipo, permite almacenar los datos de la senal de vibracion de un equipo o de una planta para su posterior analisis. El equipo permite adquirir y almacenar senales de otro tipo de sensores. Los datos almacenados son procesados utilizando tecnicas tiempo-frecuencia que, basados en las caracteristicas del equipo y sus condiciones de operacion, establecen la condicion de la maquina. El equipo tambien permite el balanceo de maquinas rotativas en uno o dos planos. Especificamente la presente invencion describe un equipo de analisis de vibracion portable para monitorear las vibraciones de maquinas. La invencion tambien describe el metodo de operacion del sistema. El procesamiento de las senales obtenidas con el equipo brinda un soporte para la programacion de mantenimiento predictivo en una planta. (Ver figura 1) **Machine translation:** The present invention discloses a portable equipment for machine fault diagnosis using vibration signals, and also the system to analyze the condition of the machine and determine fault in the machine. The computer can store data from the vibration signal of a machine or plant for further analysis. The team can acquire and store signals from other sensors. The stored data is processed using time-frequency techniques based on the characteristics of the equipment and operating conditions, they establish the condition of the machine. The team also allows balancing rotating machinery in one or two planes. Specifically, the present invention discloses a portable analysis equipment to monitor vibration machine vibration. The invention also describes the method of operation of the system. The processing of the signals obtained with the computer provides programming support for predictive maintenance in a plant. (see Figure 1)

Classifications:

International (IPC 8-9): G01H1/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CO7040204 A1	20140829	CO20130197661	20130821

Priority:

CO20130197661 20130821

Probable Assignee: UNIV TECNOLOGICA DE PEREIRA

Assignee(s): (std): UNIV TECNOLOGICA DE PEREIRA

Assignee(s): UNIVERSIDAD TECNOLOGICA DE PEREIRA

Inventor(s): (std): OROZCO GUTIERREZ ALVARO ANGEL ; HENAO CASTANEDA EDISON DE JESUS ; QUINTERO RIAZA HECTOR FABIO

Inventor(s): HECTOR FABIO QUINTERO RIAZA ; ALVARO ANGEL OROZCO GUTIERREZ ; EDISON DE JESUS HENAO CASTANEDA

Agent(s): PABLO JULIO HERNANDEZ MARTINEZ

Title: Diagnosevorrichtung bzw. Diagnoseverfahren bei Abgasturboladern im Betrieb am Verbrennungsmotor

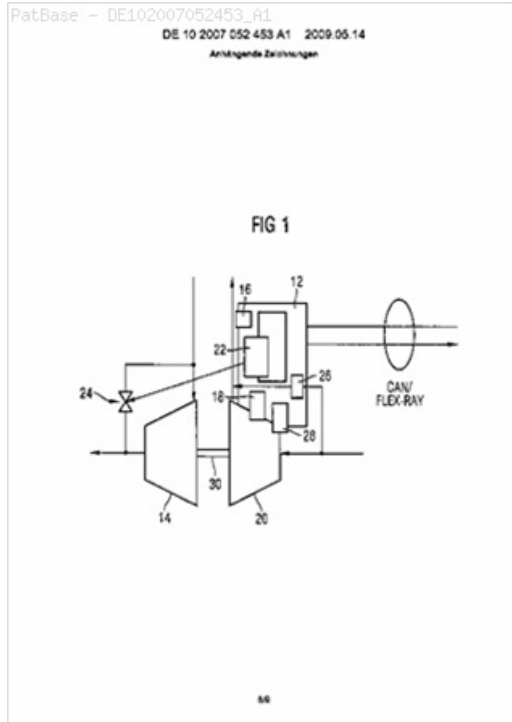
Abstract: Source: DE102007052453B4 [DE] Verfahren zum Bestimmen, ob ein Turbolader (10) intakt oder fehlerbehaftet ist mit den Schritten: a) Bereitstellen einer Speichereinrichtung in welcher die Vibrationen eines Turboladergeh aueses fuer eine oder mehrere Drehzahlen eines intakten Turboladers abgespeichert sind, b) Bestimmen der Vibration des Turboladergeh aueses, c) Bestimmen der Drehzahl des Turboladers (10), d) Vergleichen der Vibration des Turboladergeh aueses bei der entsprechenden Drehzahl des Turboladers mit einer Vibration des intakten Turboladers bei dieser Drehzahl oder einer Drehzahl die der Drehzahl des Turboladers (10) am naechsten kommt und Feststellen, dass der Turbolader (10) fehlerbehaftet ist, wenn die Vibration des Turboladergeh aueses dabei die Vibration des Turboladergeh aueses des intakten Turboladers uebersteigt.

Classifications:

International (IPC 8-9): G01M15/00 (Advanced/Invention); G01M15/00 (Core/Invention)

CPC: G01M15/05 G01M15/12

European: G01M15/05 G01M15/12



Family:

Publication number	Publication date	Application number	Application date
DE102007052453 A1	20090514	DE200710052453	20071102
DE102007052453 B4	20130404	DE200710052453	20071102

Priority:

DE200710052453 20071102

Probable Assignee: CONTINENTAL AUTOMOTIVE GMBH

Assignee(s): (std): CONTINENTAL AUTOMOTIVE GMBH

Inventor(s): (std): KOCH ACHIM

3) Family number: 74696680 (US2019180604A)

Title: "SMART" SENSOR DATA ANALYTICS FOR EQUIPMENT DIAGNOSIS

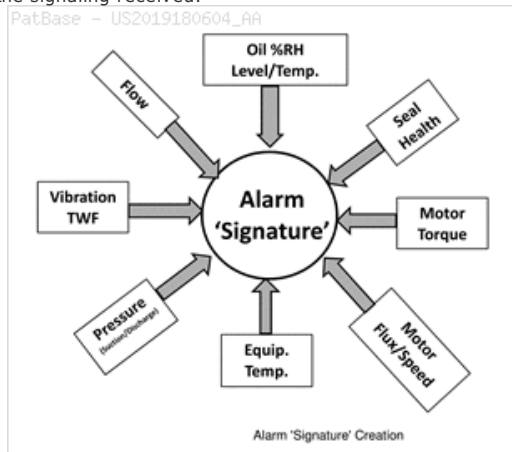
Abstract: A system for performing sensor data analytics for equipment diagnostics featuring an alarm signature and diagnostic detector having a signal processor configured to receive signaling containing information about an alarm signature for sensed data that is time-stamped for captured alarm signature parameters in order to monitor rotary equipment, and also about diagnostic detector signatures for diagnostic detectors related to alarm conditions for the rotary equipment; and determine corresponding signaling containing information about an alarm diagnosis based upon a match between the alarm signature and one of the diagnostic detector signatures contained in the signaling received.

Classifications:

International (IPC 8-9): G01M99/00 G05B23/02 G08B21/18 G08B29/18 (Advanced/Invention)

CPC: G08B29/18 G01M99/005 G08B21/187 G05B23/0235 G05B23/027

US: 1/1



Family:

Publication number	Publication date	Application number	Application date
US2019180604 AA	20190613	US20180217901	20181212
WO19118585 A1	20190620	WO2018US65189	20181212

Priority:

US20170598123P 20171213 US20180217901 20181212

Probable Assignee: ITT MFG ENTERPRISES LLC

Assignee(s): (std): ITT MFG ENTERPRISES LLC

Inventor(s): (std): DECOOK BRADLEY C ; KERNAN DANIEL

Agent(s): BARBER WILLIAM J

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

4) Family number: 76262352 (KR102035430B)

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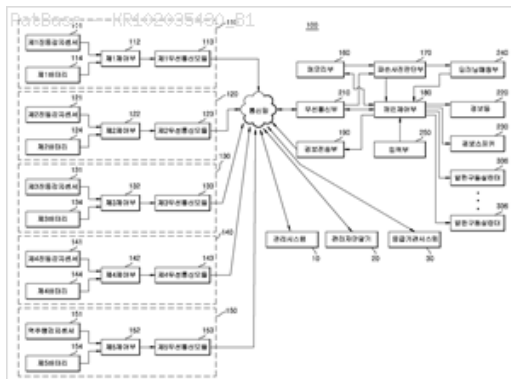
Title: ANTI-REVERSE ALARM AND SAFTY ACCIDENT PREVENTION SYSTEM USING ESCALATOR PRE-FAILURE DIAGNOSIS

Abstract: Source: KR102035430B **Machine translation:** The present invention support bearing of the handrail drive motor of the escalator, the support bearing 170 and a step of some or all of the rails installed in the vibration binary Ditto portion transmitted as data by detecting; wherein the drive motor, the hand rail of support bearing support bearing and the step of the step of the rail respectively the vibration generated in the break a memory unit for storing data; receive transmitted from the binary Ditto portion of the same object, vibration data stored in the memory unit, by comparing the vibration data to determine in advance the damage part; the pre-pre-damage by breakage, breakage occurs, and outputs a control signal to the main control unit; and a control signal according to the control of the main control system or device to predetermined alarm; transmission unit for transmitting an alert that includes the most proactive diagnostics by escalator fault protection system and alarm row relates to a safety accident. According to the present invention, failure to identify in advance for an escalator, an escalator, an accident due to the failure can be prevented in advance, in particular rows or sudden stop when they can contribute to the prevention of the loss due to most of the escalator, a fixed safety handle and draw lines or sudden stop when the safety foothold to prevent user injury by type.

Classifications:

International (IPC 8-9): B66B25/00 B66B29/00 (Advanced/Invention)

CPC: B66B29/00 B66B25/006



Family:

Publication number	Publication date	Application number	Application date
KR102035430 B1	20191022	KR20180128640	20181026

Priority:

KR20180128640 20181026

Assignee(s): (std): BAK HAE DONG ; JANG MYUNG SOO

Assignee(s): BAKHAEDONG ; JANGMYEONGSU

Inventor(s): (std): BAK HAE DONG ; JANG JUN HWAN ; JANG MYUNG SOO ; KANG HYANG HEE ; JANG WON JIN

5) Family number: 76602936 (CA3004558A)

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Title: SYSTEM AND METHOD FOR CONTROLLING OIL AND/OR GAS PRODUCTION

Abstract: A customizable system and method for actively controlling and/or optimizing remote oil and/or gas production systems such as artificial-lifting systems runs within a desired or predefined envelope based on quantifiable and measurable parameters such as economical threshold, water cut, temperature, pressure, flow rate or vibration, failure model prediction, and the like. The execution of such optimizations or control is conducted with real-time diagnosis, thereby leading to the desired response or outcome.

Classifications:

International (IPC 8-9): E21B43/12 E21B47/00 E21B47/008

E21B47/06 E21B47/07 (Advanced/Invention)

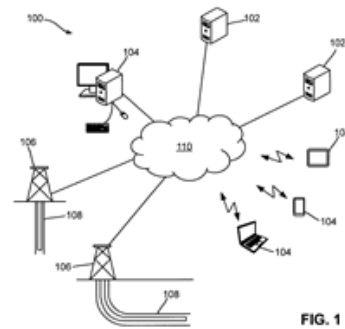


FIG. 1

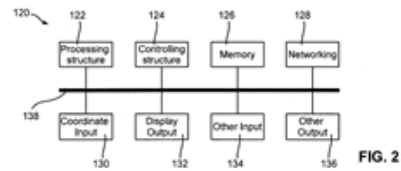


FIG. 2

CA 3004558 2018-05-10

Family:

Publication number	Publication date	Application number	Application date
CA3004558 AA	20191110	CA20183004558	20180510

Priority:

CA20183004558 20180510

Probable Assignee:

AGILE ANALYTICS CORP

Assignee(s): (std):

AGILE ANALYTICS CORP

Assignee(s):

BABIC ANDREJ

Inventor(s): (std):

BABIC ANDREJ

Agent(s):

GOWLING WLG CANADA LLP

6) Family number: 76523663 (US2019345797A)

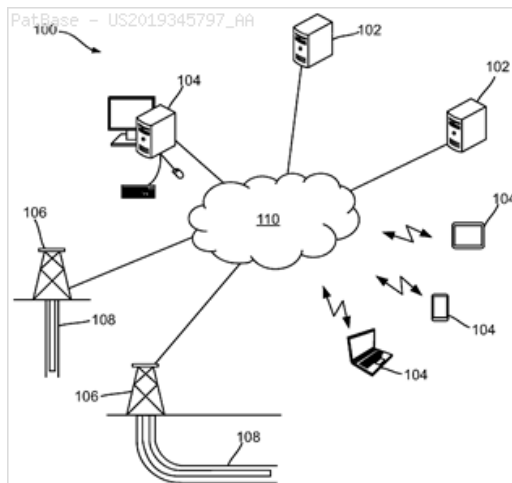
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Title: SYSTEM AND METHOD FOR CONTROLLING OIL AND/OR GAS PRODUCTION

Abstract: A customizable system and method for actively controlling and/or optimizing remote oil and/or gas production systems such as artificial-lifting systems runs within a desired or predefined envelope based on quantifiable and measurable parameters such as economical threshold, water cut, temperature, pressure, flow rate or vibration, failure model prediction, and the like. The execution of such optimizations or control is conducted with real-time diagnosis, thereby leading to the desired response or outcome.

Classifications:

International (IPC 8-9): E21B41/00 E21B43/12 E21B47/00
 E21B47/06 E21B49/08 G06Q10/06 G06Q50/02 (Advanced/Invention)
CPC: E21B41/0092 E21B47/06 E21B47/065 G06Q50/02 E21B49/08
 E21B43/126 G06Q10/06395 E21B47/0007

**Family:**

Publication number	Publication date	Application number	Application date
US2019345797 AA	20191114	US20180976049	20180510

Priority:

US20180976049 20180510

Probable Assignee:

AGILE ANALYTICS CORP

Assignee(s): (std):

AGILE ANALYTICS CORP

7) Family number: 13015365 (EP1049050A2)

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Title: Microsystem for locally monitoring and diagnosing the state of machines, equipments and/or assemblies, in particular for drive systems

Abstract: The microsystem has one or more sensors of physical parameters directly or indirectly related to the operating state of each machine, etc., or of those for which state monitoring is considered necessary, components for measurement signal processing in accordance with the implemented algorithms and components for storing measurement data and/or data derived by algorithms. The sy stores measurement and/or diagnostic signals with time information locally, pref. compressed and/or reduced, to enable reconstruction of a state change against time.

Classifications:

International (IPC 8-9): G01D3/02 G05B23/02

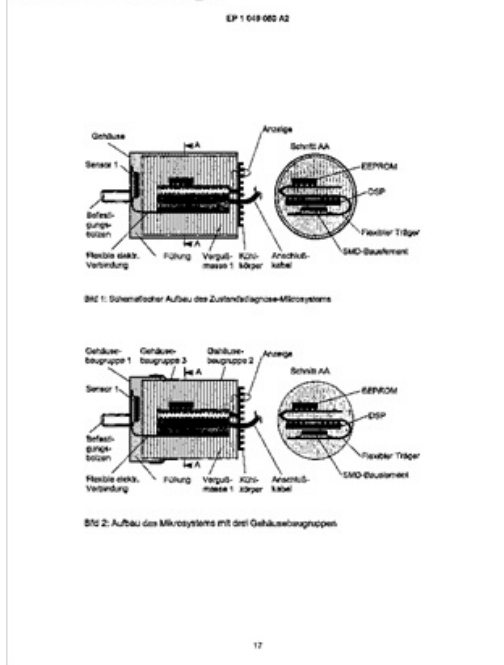
G07C3/00 (Advanced/Invention)

International (IPC 1-7): B29C45/74 B29C47/82 G01M19/00
G05B23/02 G07C3/00 G07C3/08 G08C19/00 G09B7/10 H02H9/00
H04Q9/00

CPC: G01D3/022 G05B23/0283 G07C3/00 G05B19/4065
G05B23/0264 G05B2219/31462

European: G01D3/02D G05B19/4065 G05B23/02S6D
G05B23/02S6M G07C3/00 S05B219/31462

PatBase - EP1049050_A2

**Family:**

Publication number	Publication date	Application number	Application date
DE19933924 A1	20001102	DE19991033924	19990720
EP1049050 A2	20001102	EP20000108549	20000419
EP1049050 A3	20040506	EP20000108549	20000419

Priority:

DE19991019570 19990429 DE19991033924 19990720

Probable Assignee: LOHER AG

Assignee(s): (std): LOHER AG

Assignee(s): LOHER AKTIENGESellschaft

Inventor(s): (std): HERMANN ANTON DIPL ING ; KOMPRASS ANDREAS DIPL ING ; ELENDER GUNTHER DR RER NAT ; MARSCHNER UWE DIPL ING ; FISCHER WOLF JOACHIM PROF DR I ; JOSSA INGO DIPL ING ; ZAHN DIETRICH DIPL ING ; HERMANN ANTON ; KOMPRASS ANDREAS ; ELENDER GUNTHER ; MARSCHNER UWE ; FISCHER WOLF JOACHIM ; JOSSA INGO ; ZAHN DIETRICH

Inventor(s): FISCHER WOLF JOACHIM PROF DR ING

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

8) Family number: 72205311 (FR3066853A)

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Title: DISPOSITIF DE DIAGNOSTIC PAR ONDES SONORES OU VIBRATOIRES DE TOUT VEHICULE OU ENGINE A MOTEUR. DIAGNOSTIC DEVICE by sound waves or vibrations OF ANY VEHICLE OR MOTOR VEHICLE. (Machine translation)

Abstract: Source: FR3066853A [FR] L'invention concerne un système de diagnostic destiné à collecter une multitude de signaux sonores et vibratoires dans les différentes parties d'un véhicule ou d'un engin. Ces données sont ensuite synthétisées après filtrage et conditionnement des signaux et envoyées vers un logiciel central. Ce logiciel peut faire partie de l'ordinateur du véhicule [18] ou faire l'objet d'un ordinateur séparé. Les données recueillies sont complétées par les autres données du véhicule (vitesse, direction, accélération, température etc.). Une base de données correspondant à des séquences sonores ou vibratoires connues servira à la réalisation de la corrélation avec les séquences acquises. Un résultat est présenté sous une forme simplifiée et lisible pour l'utilisateur et plus détaillée pour le professionnel. Dans le cas d'une détection d'anomalie, les données sont enregistrées dans une mémoire afin d'être analysées et exploitées par un professionnel de la maintenance ou du constructeur. Les nouvelles données serviront à enrichir la base de données des bruits associés à des anomalies. Le dispositif présente un mode manuel d'enregistrement permettant à l'utilisateur de mémoriser une séquence qu'il juge utile pour le diagnostic. Afin d'éviter les fausses alertes et un stockage inutile de données, une phase de calibration est réalisée à la mise en route du véhicule, et une calibration périodique doit être faite, avec une périodicité déterminée par le constructeur. **Machine translation:** The invention relates to a diagnostic system for collecting a multitude of sound and vibration signals in the different parts of a vehicle or a vehicle. These data are then synthesized after filtering and packaging of signals and sent to a central software. This software can be part of the computer of the vehicle [18] or be the subject of a separate computer. The data are harvested, supplemented with the other data of the vehicle (speed, direction, acceleration, temperature etc.). A database corresponding to the sequences known vibration or noise will be performing the correlation with the sequences acquired. A result is present in a form simplified and legible to the

user and more detail to the professional. In the case of a detection of the anomaly, the data is stored in a memory in order to be analyzed and exploited by a professional maintenance or the manufacturer. The new data will be used to enrich the database of the noises associated with anomalies. The device presents a recording manual mode allowing the user to store a sequence it considers useful for the diagnosis. In order to avoid false alarms and unnecessary storage of data, a calibration phase is performed at the start of the vehicle, and a periodic calibration must be made, with a periodicity determined by the manufacturer.

Classifications:

International (IPC 8-9): B60Q11/00 G01H11/00 G10K15/02 (Advanced/Invention)

CPC: G01H1/003

Family:

Publication number	Publication date	Application number	Application date
 FR3066853 A1	20181130	FR20170070541	20170526

Priority:

FR20170070541 20170526

Probable Assignee:

NACERCHERIF AHMED

Assignee(s): (std):

NACERCHERIF AHMED

Assignee(s):

AHMED NACERCHERIF

Inventor(s): (std):

NACERCHERIF AHMED

Inventor(s):

AHMED NACERCHERIF

Agent(s):

AHMED NACERCHERIF