



Tech Report

Abstracts Of Recent Published South African Patents
February 2015

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Intellectual Property
Attorneys



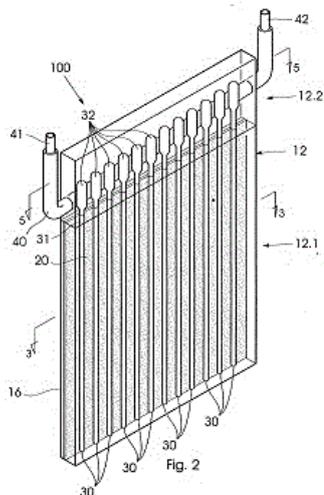
Title: SOLAR COLLECTOR

Patent No: 2012/08021

Applicant: HOLDER, ETIENNE GARRIT, HUPERTZ, WALTER HUGO.

Abstract: The invention concerns a solar collector for use in a hot water system which has a reservoir. The collector includes an energy absorbing structure and a number of spaced apart metal tubes which are in contact with the energy absorbing structure to form a heat conductive connection between them. Each of the tubes terminates in a head at its end which, in use, is its top end. In use, these heads are connected to a manifold, which is in fluid communication with the reservoir, so that when a heat transfer medium in the tubes is heated to a temperature above a critical temperature it rises in the tubes towards the respective heads. Heat transfer then takes place between the heads and the water in the manifold to heat the water in the manifold and, accordingly, the reservoir to a desired temperature.

Image:



Title: SYSTEM AND METHOD FOR DIAGNOSING A TURBOCHARGER OF AN INTERNAL COMBUSTION ENGINE

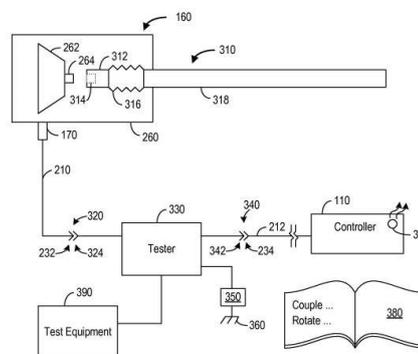
Patent No: 2013/05499

Applicant: General Electric Company.

Abstract: Methods and systems are provided for diagnosing a fault of a turbocharger of a vehicle system. The turbocharger system comprises a rotary component and a wiring harness including a plurality of signals. In one embodiment, a diagnosis kit comprises a tester (330), a

manipulation tool (310), and a plurality of human readable instructions (380). The tester includes a connector operable to connect to the wiring harness and a plurality of connectors. The tester is configured to receive signals from the wiring harness for use in diagnosing the fault source. The manipulation tool couples to and decouples from the rotary component and the tool is operable to rotate the rotary component when the tool is coupled to the rotary component. The plurality of human readable instructions includes information on how to diagnose the fault of the turbocharger system using the tester and the physical manipulation tool.

Image:



Title: APPARATUS, METHOD AND SYSTEM FOR A MODULAR LIGHT-EMITTING DIODE CIRCUIT ASSEMBLY

Patent No: 2013/07704

Applicant: LED LENSER CORP. LTD.

Abstract: Provided herein is an improved apparatus, method and system for providing a modular LED circuit assembly. Specifically, examples of the present invention include a modular LED circuit which may be scaled and used in a wide variety of form factors. One example of the present invention may provide an apparatus for supporting a light-emitting diode which includes an LED circuit board including a first major surface and a second major surface. The first major surface may include a first contact pad and a second contact pad, where each of the first contact pad and the second contact pad are configured to receive a respective connector from the LED. The second major surface of the LED circuit board may include a first area, a second area, and a



third area, where a substrate is attached to the LED circuit board across the third area.

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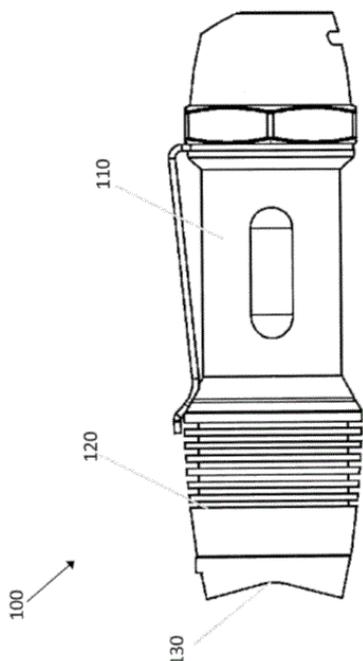


FIG. 1

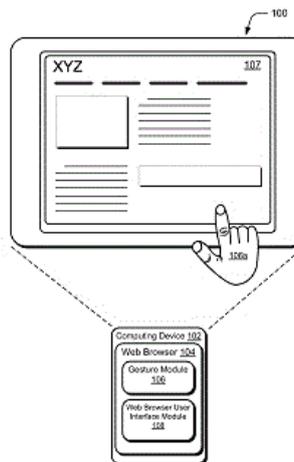
Title: NAVIGATION USER INTERFACE IN SUPPORT OF PAGE-FOCUSED, TOUCH- OR GESTURE-BASED BROWSING EXPERIENCE

Patent No: 2013/07745

Applicant: MICROSOFT CORPORATION

Abstract: Various embodiments provide a web browser user interface that permits users to become more fully immersed in web page content that is displayed by a web browser. The inventive approach emphasizes a "content-over-chrome" approach by providing a navigation user interface model that contextually adapts and modifies the navigation user interface based on a particular current user task. In one or more embodiments, locational modifications are made to place various browser instrumentalities, e.g. navigation instrumentalities, in locations that are selected to enhance the user experience by enabling the user to focus more easily on content-relevant portions of the display screen or device.

Image:



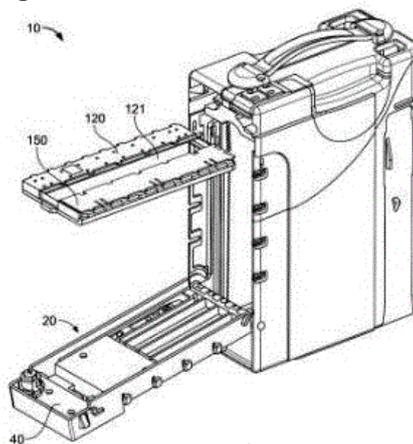
Title: TAMPER EVIDENT STORAGE DEVICE FOR ITEMS OF VALUE

Patent No: 013/09455

Applicant: MEI, INC.

Abstract: A system for storing items of value, an apparatus for securing items of value and a method for retrieving a secure container are described. The apparatus comprises a housing configured to accept items of value and having an open end, an aperture plate, fixedly coupled to the housing and having an opening for inserting items of value into the housing, and a closure mechanism operably coupled to the aperture plate. The closure mechanism configured to move between an open position whereby items of value can be inserted through the opening in the aperture plate and into the housing, and a closed position wherein items of value are prevented from being inserted through the opening in the aperture plate and into the housing.

Image:





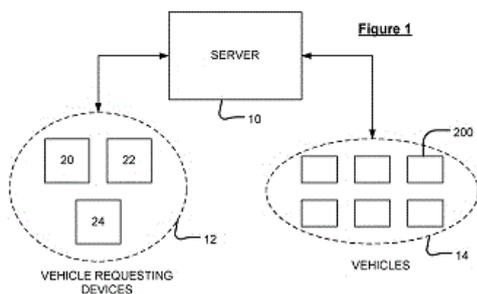
Title: SYSTEM AND METHOD FOR ASSOCIATING DEVICES MOVING ALONG THE SAME TRAVEL PATH

Patent No: 2013/07969

Applicant: TOMTOM INTERNATIONAL B.V.

Abstract: A method of temporarily associating a first mobile device 22 with a second mobile device 200, by processing positional data relating to the position and movement of a plurality of mobile devices with respect to time in a geographical region. The positional data is process to determine if a first mobile device 22, such as one carried by a user, is moving concurrently with a second mobile device 200, such as one associated with a vehicle 14, along substantially the same travel path. When such a determination is made, a temporary association is created between the first mobile device 22 and the second mobile device 200, e.g. at a server 10 to allow for data to be exchanged between the two devices.

Image:



Title: SYSTEM FOR GUIDING A DRONE DURING THE APPROACH PHASE TO A PLATFORM, IN PARTICULAR A NAVAL PLATFORM, WITH A VIEW TO LANDING SAME

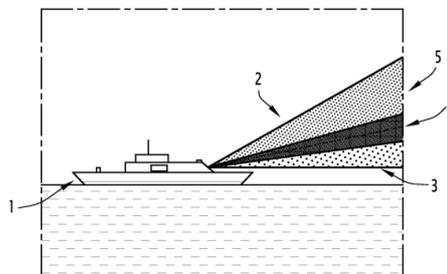
Patent No: 2011/03185

Applicant: DCNS

Abstract: The invention relates to a system for guiding a drone during the approach phase to a platform, in particular a naval platform, with a view to landing same, characterised in that the platform is provided with equipment indicating the angle of descent, emitting an array of optical guide beams onto an angular sector predetermined from the horizontal, and in that the drone is provided with a camera (6) for acquiring the beam and which is

connected to an image analysis means (7) and a means (8) for computing command orders sent to an automatic flight means (9) of the drone, in order to prompt the drone to follow the guide beams.

Image:



Title: A LOCATING SYSTEM AND A METHOD FOR OPERATING A LOCATING SYSTEM

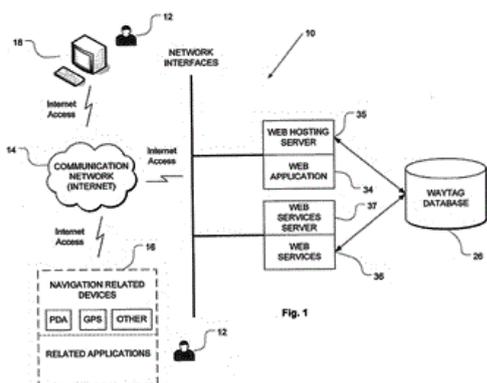
Patent No: 2012/02637

Applicant: WAYTAG (PROPRIETARY) LIMITED

Abstract: A location system for locating an entity, and a method of operating such a system, are disclosed. The method includes receiving identification information associated with at least one entity such as a person or business. A unique identifier associated with the at least one entity is either generated by the system or provided by a user of the system. The system receives geographic location data associated with the entity. The received identification information, the received geographic location data and the unique identifier associated with the at least one entity are stored in an updatable database. The unique identifier is usable to access the updatable database to retrieve the identification information and geographic location data associated with the entity. The location system includes an identification receiver module which receives identification information associated with the entity. A location receiver module is arranged to receive geographic location data associated with the entity. An updatable database is arranged to store the received identification information and the received geographic location data associated with the entity. An association module is arranged to associate the generated or user-provided unique identifier with the entity.



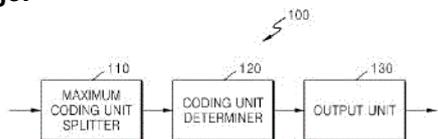
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Title: METHOD AND APPARATUS FOR ENCODING VIDEO, AND METHOD AND APPARATUS FOR DECODING VIDEO
Patent No: 2012/01039
Applicant: Samsung Electronics Co., Ltd.

Abstract: Disclosed is a method of encoding a video, the method including: splitting a current picture into at least one maximum coding unit; determining a coded depth to output a final encoding result according to at least one split region obtained by splitting a region of the maximum coding unit according to depths, by encoding the at least one split region, based on a depth that deepens in proportion to the number of times the region of the maximum coding unit is split; and outputting image data constituting the final encoding result according to the at least one split region, and encoding information about the coded depth and a prediction mode, according to the at least one maximum coding unit.

Image:

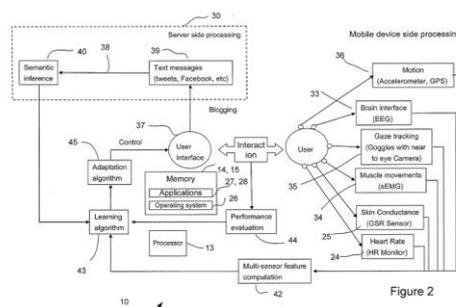


Title: USER INTERFACES
Patent No: 2013/0983
Applicant: NOKIA CORPORATION

Abstract: Apparatus comprises at least one processor; and at least one memory including computer program code. The memory and the computer program code are configured to, with the at least one

processor, cause the apparatus at least to perform a method of: determining an emotional or physical condition of a user of a device; and changing either: a) a setting of a user interface of the device, or b) information presented through the user interface, dependent on the detected emotional or physical condition.

Image:

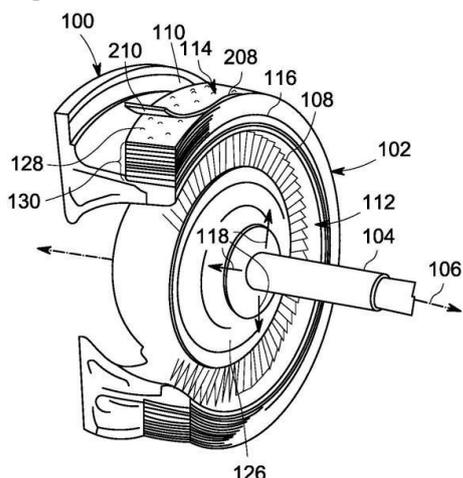


Title: FRAGMENT CONTAINMENT ASSEMBLY AND METHOD FOR ADDING A FRAGMENT CONTAINMENT ASSEMBLY TO A TURBINE
Patent No: 2013/00925
Applicant: General Electric Company.

Abstract: A fragment containment assembly (102) for a turbine (100) is provided. The fragment containment assembly includes a plurality of bands (130) disposed around a shroud (110) of the turbine and positioned such that the shroud is disposed between blades (108) of the turbine and the bands along radial directions outwardly extending from a shaft of the turbine. The bands include a material having a first modulus of toughness parameter that is greater than a second modulus of toughness parameter of the shroud at temperatures of at least 260 degrees Celsius. The bands are disposed around the shroud to prevent debris of the turbine from being released outside of the bands along the radial directions caused by failure of the turbine.



Image:



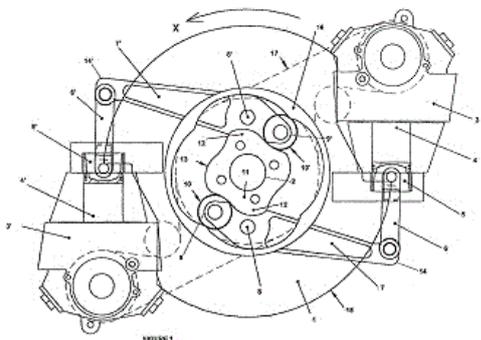
Title: AN ENGINE USABLE AS A POWER SOURCE OR PUMP

Patent No: 2013/03041

Applicant: GRACE MOTOR WORKS LIMITED

Abstract: An engine which includes a rotor mounted relative to an output shaft, the rotor having one or more piston cylinder assembly's disposed in or on the rotor. The longitudinal axis/axes of the one or more piston cylinder assembly's is orientated to be tangential to a peripheral rim of the rotor. The rotor or output shaft has a lobed cam which rotates at the same, greater or slower speed than the rotor and in which via compression and combustion, each piston rotates the rotor continuously relative to a stationary part of the engine.

Image:



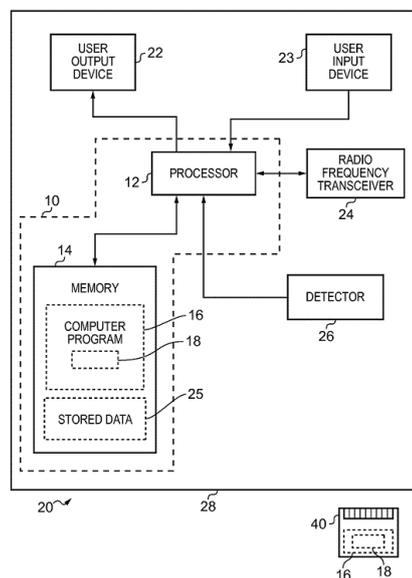
Title: USING BIO-SIGNALS FOR CONTROLLING A USER ALERT

Patent No: 2013/0984

Applicant: NOKIA CORPORATION

Abstract: A method, apparatus and computer program are provided. The method comprises: determining that an event has occurred; obtaining, from at least one detector, a detection of one or more bio-signals from a user; and processing the detection of the one or more bio-signals to decide whether to control at least one user output device to initiate a user alert, contemporaneously with the occurrence of the event, indicating that the event has occurred.

Image:





Commentary: The Von Seidels technical team is made up of patent attorneys, foreign counsel, candidate patent attorneys and technical experts. The team has extensive technical expertise across the following fields: Electrical and Electronic Engineering, Computer Science, Natural Science, Civil Engineering, Mechatronic Engineering, Industrial Engineering and Chemical Engineering.

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