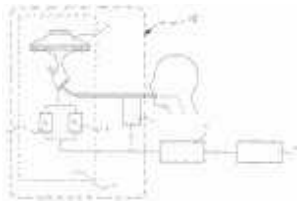
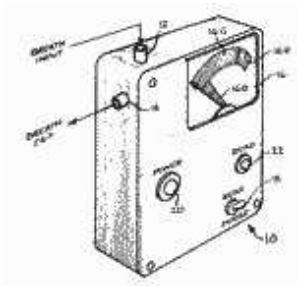
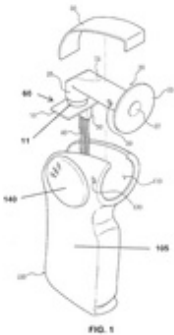


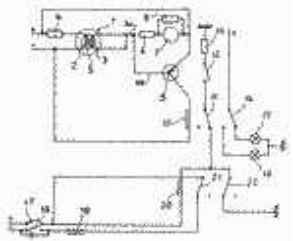
787 results for 28 - Collection: FAMPAT

| #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   Title | Publication number | Publ. date | Applicant/Assignee                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <a href="#">Replaceable alcohol sensor module</a>                                                                                                                         | EP3359958          | 2018-08-15 | <div>AK GLOBALTECH</div> <div>EKE GLOBAL TECHNOLOGY</div>                                                                                                                                |
| <p>A replaceable alcohol sensor module for use with a breathalyzer. The alcohol sensor module requiring calibration can be removed from the body of the breathalyzer and replaced with a new alcohol sensor module. The replaceable alcohol sensor module has at least an alcohol sensor and an adapter that removably connects the replaceable sensor module to the breathalyzer. The adapter transmits the electrical current generated by the alcohol sensor to a processor of the breathalyzer for processing. The alcohol sensor and the adapter are mounted on a printed circuit board to provide the replaceable sensor module.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                           |                    |            |                                                                                                                                                                                          |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <a href="#">Portable breath tester</a>                                                                                                                                    | US3877291          | 1975-04-15 | <div>ALCOHOL COUNTERMEASURE SYSTEMS</div> <div>ALCOHOL COUNTERMEASURE SYSTEM</div> <div>BORG WARNER</div> <div>JOSEPH P HOPPESCH</div> <div>STUART A SCHUBERT</div> <div>1 more...</div> |
| <p>A breath tester, in two embodiments, employing an alcohol detecting element (e.g. a zinc oxide semiconductor element) which, prior to use, is purged by pumping ambient air across it and maintaining it at a higher than normal operating temperature. In use, after a purging period the air pumping is stopped and the detector heaters are turned off, while breath is directed to the detector and any resulting change in properties (conductivity/resistivity) is sensed and signaled. The first embodiment is largely manually operated and uses a meter to signal both the breath alcohol concentration, and also the purged state of the detecting element. The second embodiment is largely automatic, includes timers and interlocks to prevent misuse, and employs lights to signal its outputs ("fail," for over one BAC level, "warn" for over a lower BAC level and "pass" for under that level) as well as its operational status ("power" on, "wait," "ready," "test"). Both embodiments may be battery powered and means for sensing and signaling the charge level on the batteries is disclosed.</p> |                                                                                                                                                                           |                    |            |                                                                                                                                                                                          |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <a href="#">Breath alcohol-measuring device, process and system</a>                                                                                                       | US20070266766      | 2007-11-22 | <div>DRAEGERWERK</div> <div>DRÄGER SAFETY</div>                                                                                                                                          |
| <p>A device, a system and a process is provided for the use of a breath alcohol-measuring device (1) with improved personal identification. The breath alcohol-measuring device (1) is combined with a pulse oscillometer (4) such that the initially measured values of the complex airway resistance of a test subject are stored in an evaluating and control unit (3) connected to the breath alcohol-measuring device (1) and to the pulse oscillometer (4) and compared to subsequently measured values of a test subject. A breath alcohol measurement is released and/or a vehicle immobilizer (2) is actuated in case of agreement of stored values with subsequently measured values.</p>                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                           |                    |            |                                                                                                                                                                                          |



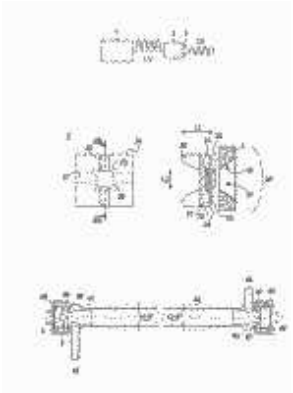
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| 4. | Apparatus for measuring the alcohol content in human breath | US4047893 | 1977-09-13 | <div>CONTAINER STORAGE SERVICE</div> <div>C S S CONTAINER STORAGE SERVICE ESTABLISHMENT VADUZ</div> <div>CONTAINER STORAGE SERVICE EST</div> <div>CONTAINER STORAGE SERVICE ESTA</div> <div>CSS</div> |
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An individual blows into a chamber having a predetermined volume. In the chamber is mounted a gas cell including a heating conductor for catalytic burning of the alcohol and a probe at a predetermined distance from the heating conductor, both embedded in a ceramic porous shell. The lead-in conductor for the probe is connected to the base of a transistor in a threshold circuit which is responsive to the resistance of the gas cell which in turn decreases with increasing alcohol content. When the resistance is less than a predetermined resistance a relay in the transistor circuit operates, lighting an indicator lamp and, in one embodiment, deenergizing the ignition circuit of a vehicle in which the device is mounted.



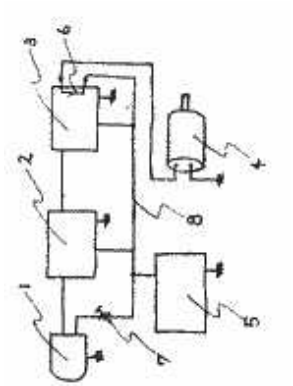
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| 5. | Device for emitting pulsed infrared radiation | WO2010/086556 | 2010-08-05 | <div>S SERES ENVIRONNEMENT</div> <div>ALCOLOCK FRANCE</div> |
|----|-----------------------------------------------|---------------|------------|-------------------------------------------------------------|

The invention relates to a device for emitting a pumped infrared radiation emitting pulses reproducible in the spectral interval of [9μm, 10μm] for use in a breath analyser including a measuring tank in which adsorption measurements are carried out, characterised in that the device comprises at least one power supply module capable of providing a pumped current reproducible at a desired pulse frequency and an emission module including a planar substrate on which is arranged a layer or a filament of a conductive material used as a heating resistor, the conductive layer or filament being coated with a thin layer of at least one semiconducting material, and the conductive layer or filament being powered by the pumped current provided by the power module.



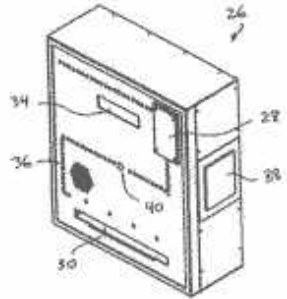
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|----|---------------------------------------|-------------|------------|---------------------------|
| 6. | Preventive device for drunken driving | JPS57140232 | 1982-08-30 | <div>SUZUKI SHIGETO</div> |
|----|---------------------------------------|-------------|------------|---------------------------|

PURPOSE:To prevent accidents due to drunken driving by a method wherein signals from an alochol detecting signal discriminting circuit are amplified to operate a relay circuit. CONSTITUTION:The output of an alcohol sensor 1 in a room is connected to the input of the discriminating circuit 2. The discriminating circuit 2 discriminates the output signal change due to a change of resistance of the alcohol sensor 1 and only when the concentration of alcohol gas exceeds an allowable value the output current flows. A driver circuit 3 amplifies the output current of the discriminating circuit 2, operates a relay and breaks the power source 5 of the starter motor 4 of a car. And, when an output of the discriminating circuit takes 0 the relay does not operate and the power source 5 is not broken.



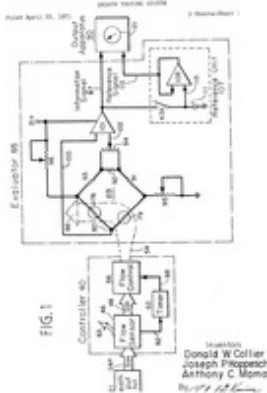
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| 7. | Method and apparatus for determining alcohol content in a breath sample | EP1867987 | 2007-12-19 | ATKINSON VENTURE HOLDINGS<br>CALGARY ALBERTA<br>ATKINSON VENTURE HOLDINGS<br>STERLING VENDING |
|----|-------------------------------------------------------------------------|-----------|------------|-----------------------------------------------------------------------------------------------|

A method and apparatus for determining alcohol content in a breath sample, comprising at least one of breath sample exhaust means, resistance lowering means, and correction factor calculation means.



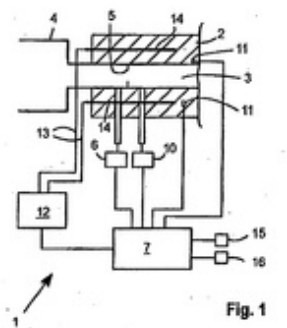
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| 8. | Breath testing system | US3764270 | 1973-10-09 | SHERAM ENTERPRISES<br>BORG WARNER<br>BORG WARNER CHICAGO ILL<br>GUARDIAN TECHNOLOGIES |
|----|-----------------------|-----------|------------|---------------------------------------------------------------------------------------|

A breath testing system for under-supervised or unsupervised alcohol intoxication breath testing. The system includes a breath input unit, a controller which delivers a sample of deep lung breath to an evaluator including an alcohol detector and an output apparatus. The controller includes a breath flow sensing means, e.g., a pressure sensitive switch and timer, to require a predetermined and essentially continuous and uninterrupted breath flow prior to testing to thereby insure that along breath sample is tested. Means for signaling failing or passing of the test are provided. A passing signal cannot be obtained unless the predetermined continuous and uninterrupted flow has occurred and the resulting sample tests below a predetermined alcohol concentration. The system is disclosed in one environment of use: in a motor vehicle, wherein failure to take or pass the test modifies the operation of the vehicle (e.g., prevents it from being driven or governs its maximum speed).



|    |                                   |           |            |               |
|----|-----------------------------------|-----------|------------|---------------|
| 9. | Breath alcohol measurement device | EP2544000 | 2013-01-09 | DRÄGER SAFETY |
|----|-----------------------------------|-----------|------------|---------------|

An alcohol sensor unit (10) is provided for measuring alcohol content of breathing air. A temperature sensor unit (11) is provided for measuring temperature of breathing air. The contact electrodes (14) are embedded on base portion (2), and are supplied with electric current through electrical line (13). The polymer material of base portion is made of electro conductive filler such as carbon black, chimney soot, carbon fiber, graphite powder or metal powder. The thermal conductivity and volume resistance of base portion are set to specific values.  
(From EP2544000 A1)



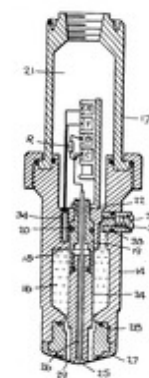
## 10. Chlorine dioxide analyzer

US4176032

1979-11-27

FISCHER &amp; PORTER

A system adapted to continuously and accurately measure the concentration of chlorine dioxide dissolved in liquid, the system including a sensor immersible in the liquid being tested. The sensor is constituted by a noble-metal measuring electrode, an oxidizable-metal counter electrode and an electrolyte which together define an electrochemical cell whose output current depends on the amount of chlorine dioxide passing into the cell through a diffusion membrane permeable to chlorine dioxide but not to the liquid. The chlorine dioxide within the cell is electrochemically reduced at the surface of the measuring electrode to generate a current proportional to its concentration, the counter-electrode being oxidized to complete the cell reaction.



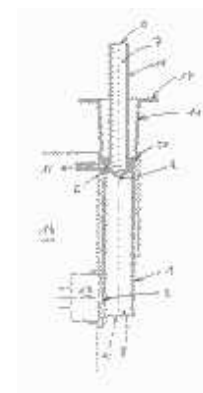
## 11. Exhaled breath gas detector, esp. for alcohol

FR2730314

1996-08-09

SOCIETE D ETUDE & DE REALISATION  
D EQUIPEMENTS SPECIAUX SERIES

The detector consists of a hollow cylindrical mouthpiece with an inlet (9) and an outlet (10) lying on the same axis, and an aperture (3) leading to an element (13) which monitors the proportion of the detected gas in the exhaled breath. The element (13) contains an electrical resistance whose value is a function of the temperature and situated inside a chamber into which the separated portion of exhaled breath is delivered.



## 12. Micro-fuel cell sensor apparatus and method for modeling the sensor response time

US20020125131

2002-09-12

GENERAL ELECTRIC CANADA  
GENERAL ELECTRIC

An apparatus for measuring hydrogen content and partial hydrogen pressure in gas streams and a method of modeling the sensor based on the characteristics of the sensor. The apparatus includes a housing with micro-fuel cell sensor disposed therein. The sensor includes a sensing element having first and second gas diffusing electrodes spaced from one another with an acidic electrolyte disposed between the electrodes. A first gas permeable membrane separates the first electrode from an external gas stream. A second gas permeable membrane separates the second electrode from atmospheric air. Electrochemical charging of the first electrode occurs when hydrogen from a gas stream diffuses through the first membrane to react with the first electrode, while the potential of the second electrode remains unchanged. The potential difference between the first and second electrodes measured as current is identified to represent the sensor output. The response time of the sensor is modeled based on the characteristics of the sensor affecting the sensor response time.

