

Diego Gonzalez Castillo

1) Family number: 51885327 (DE102011013182A1)

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Title: TRACTION BATTERY FOR ELECTRIC VEHICLE, HAS BATTERY CELLS THAT ARE CONNECTED OVER SWITCHABLE SEPARATORS SO THAT BATTERY CELL GROUP SEPARATION PROCESS IS PERFORMED ACCORDING TO PRESET CONTROL ALGORITHM

Abstract: The traction battery has battery cells (3) that are arranged in groups of circuitry (4-7) and are connected over switchable separators (14). The fault detection sensors (28a) are connected to the separators which perform battery cell group separation process according to preset control algorithm. The separators are switched by a control device such that a defective battery cell detected by the sensors is disconnected from the circuitry. The transfer elements (20,21) are connected to the separators for transferring status of battery cells to external device.

Classifications:

International (IPC 8-9): B60L3/00 H01M10/48

H01M2/34 (Advanced/Invention)

CPC: B60L3/0007 B60L3/04 B60L50/64 B60L58/21 B60L2270/36

H01M2/1077 H01M2/206 H01M2/341 H01M2/347 H01M10/425

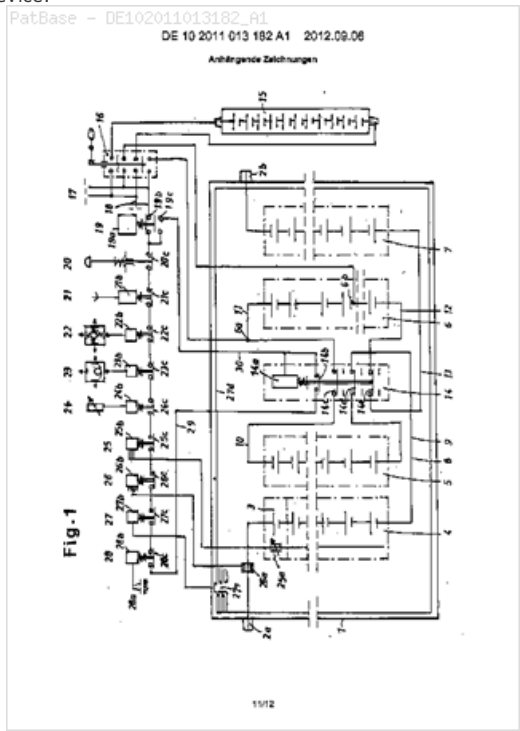
H01M10/48 H01M10/488 H01M2010/4278 H01M2200/00

H01M2220/20 Y02T10/7005 Y02T10/7061

European: H01M10/42S H01M10/48 H01M10/48F H01M2/10C4B

H01M2/20D4 H01M2/34A H01M2/34S T01M10/42S8 T01M200/00

T01M220/20



Family:

Publication number	Publication date	Application number	Application date
DE102011013182 A1	20120906	DE201110013182	20110305

Priority:

DE201110013182 20110305

Probable Assignee:

SCHOPF WALTER

Assignee(s): (std):

SCHOPF WALTER

Assignee(s):

SCHOPF

Inventor(s): (std):

SCHOPF WALTER

2) Family number: 17339288 (CN2152717Y)

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Title: ELECTRONIC DISCHARGING APPARATUS FOR PREVENTING THEFT OF MOTOR-DRIVEN VEHICLE

Abstract: The utility model belongs to an anti-theft electronic device with an electric shock function for motor vehicles. The utility model comprises a high voltage generator which is composed of a triode, a resistor, a power switch and a transformer, wherein one electrode of the high voltage output end of the high voltage generator is connected with a casing of a motor vehicle body, and the other electrode touches the ground and forms an output open-type predischage circuit, so a high voltage electric field is formed. A power supply adopts the self power supply of the motor vehicle, and the power switch is an outer cipher switch or an inner switch. Compared with the existing anti-theft device, the anti-theft electronic device of the utility model has the advantages of simple operation, convenient and practical use, high safety and timely and effective performance.

Classifications:

International (IPC 8-9): B60R25/00 (Advanced/Invention);

B60R25/00 (Core/Invention)

International (IPC 1-7): B60R25/00

Family:

Publication number	Publication date	Application number	Application date
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Priority:

CN19922031065U 19920825

Probable Assignee:	YAO ZHE
Assignee(s): (std):	YAO ZHE
Inventor(s): (std):	YAO ZHE ; ZHE YAO

3) Family number: 54335637 (CN203047420U)

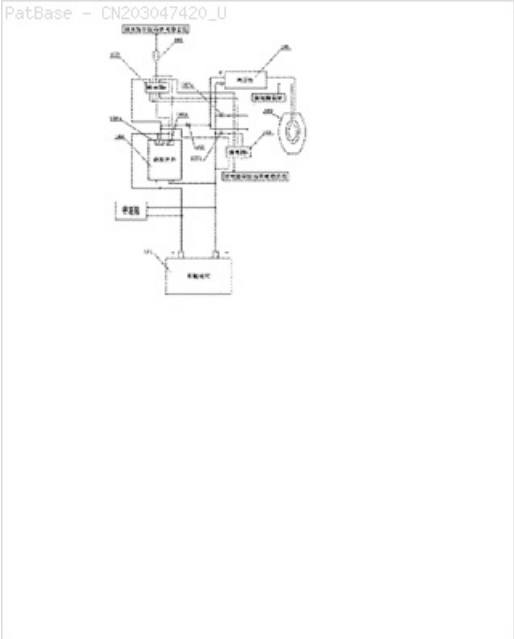
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Title: ELECTRIC SHOCK ANTI-THEFT SYSTEM OF BATTERY POWERED VEHICLE

Abstract: The utility model discloses an electric shock anti-theft system of a battery powered vehicle. The system consists of a 12V 1.3Ah lead acid storage battery, a discharge high voltage pack, two dual-coil latching relays, a wireless remote control switch, two led (light emitting diode) indicator lamps, a resistor, a diode and a battery powered vehicle cushion. The lead acid storage battery is used for providing power for the work of the entire system; the high voltage pack is used for discharging high voltage to deter and attack thieves after excitation; the two relays comprise a relay A and a relay B; the relay B is used for switching on and off the system; the relay A is used for exciting on-off of a circuit of the system; the two led indicator lamps are used for displaying the system states so as to avoid error operation; the remote control switch is used for remotely controlling the working state of the system so as to fortify and deter; and the cushion has an effect that an electrode is buried below the cushion to be used as a first attack point so as to implement the anti-theft function of the system.

Classifications:

International (IPC 8-9): B62H5/00 H05C 1/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN203047420 U	20130710	CN201320076956U	20130219

Priority:

CN201320076956U 20130219

Probable Assignee:	LIN ZIBIN
Assignee(s): (std):	SUN ZHIQIANG ; LIN ZIBIN
Inventor(s): (std):	SUN ZHIQIANG ; LIN ZIBIN

4) Family number: 20353246 (GB991212A)

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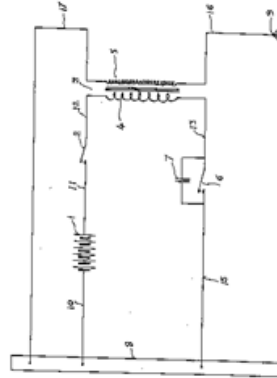
Title: The high tension deterrent for motor vehicles

Abstract: 991,212. Preventing theft from vehicles. A. J. SHIPLEY. Feb. 24, 1964 [Feb. 27, 1963], No. 7778/63. Heading B7J. For protection from theft or attack a vehicle is provided with means to charge part at least of the exterior to a sufficient potential to impart a shock to an intruder. As shown, the vehicle is provided with a primary circuit including a battery or D.C. generator 1, primary coil 4 of a step-up transformer 3 and an interrupter 6 which may be solenoid or motor operated. The secondary circuit includes the secondary coil 5 of transformer 3 connected by cable 17 to the vehicle chassis or body part 8 and by cable 16 to a grounding electrode 9 whereby part 8 is charged when the interrupter is operated. Alternatively, the high potential may be provided by an A.C. generator and step-up transformer, a high voltage A.C. or D.C. generator, a capacitor discharging through a step-up transformer, an oscillating circuit with timed inductive and capacitive reactances or a voltage multiplying circuit incorporating rectifiers.

Classifications:

International (IPC 8-9): B60R21/12 (Advanced/Invention);
B60R21/02 (Core/Invention)
International (IPC 1-7): B60R25/00
CPC: B60R21/12
European: B60R21/12

961212 COMPLETE SPECIFICATION
I. SHIPLEY This drawing is a reproduction of the Original as a reduced size

**Family:**

Publication number	Publication date	Application number	Application date
GB991212 A	19650505	GB19630007778	19630227

Priority:

GB19630007778 19630227

Probable Assignee:

ALEC JAMES SHIPLEY

Assignee(s): (std):

ALEC JAMES SHIPLEY

5) Family number: 41100717 (CN200948776Y)

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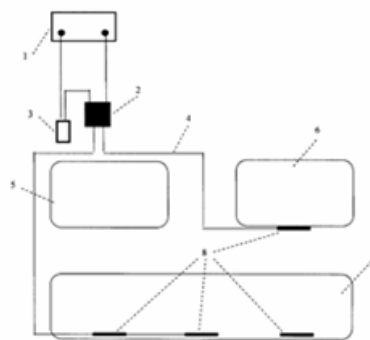
Title: Taxi robbing-proof antiviolence device

Abstract: The utility model provides a taxi robbery and violence protective device. Feature of the utility model is: A hidden controller, a discharge seat cushion, a high pressure generator and a high pressure electrode are set on taxi, and are connected with controller and switch before a driver and car 12V accumulator. The utility model has concise structure, convenient operation and cheap price, has controllable electric shock time and strength, has quick reaction, makes gangster lose self-control capacity, hasn't fatal danger, hasn't interference or influence on electric system of car, is suitable for top-grade private car besides taxi, and can be connected with GPS positioning system for use.

Classifications:

International (IPC 8-9): B60R21/12 F41B15/00 (Advanced/Invention);
B60R21/02 F41B15/00 (Core/Invention)

PatBase - CN200948776_Y

**Family:**

Publication number	Publication date	Application number	Application date
CN200948776 Y	20070919	CN200620127609U	20060909

Priority:

CN200620127609U 20060909

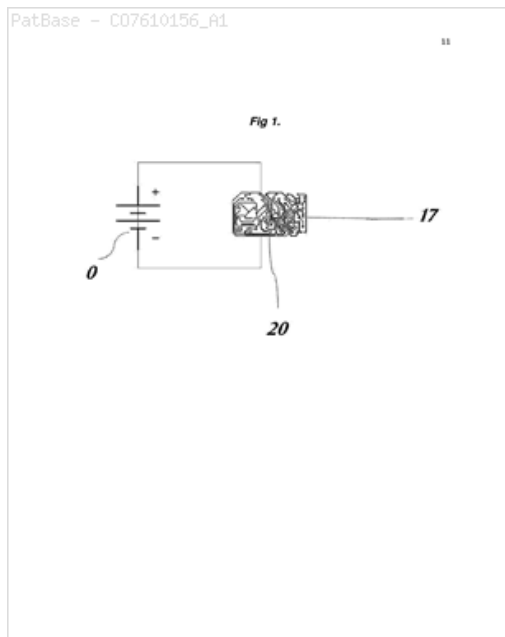
Probable Assignee: UNIV TAIYUAN TECHNOLOGY**Assignee(s):** (std): TAIYUAN UNIV OF TECHNOLOGY ; UNIV TAIYUAN TECHNOLOGY**Assignee(s):** TAIYUAN UNIVERSITY OF TECHNOLOGY**Inventor(s):** (std): CAO HAIYAN LIU**Inventor(s):** HAIYAN LIU CAO

Title: DISPOSITIVO QUE GENERA ARCOS DE DESCARGA ELECTRICA POR PROXIMIDAD DE MANERA INTERMITENTE Y PROGRESIVA Y SU METODO DE FUNCIONAMIENTO ARCOS GENERATING DEVICE OF ELECTRIC SHOCK INTERMITTENTLY PROXIMITY AND PROGRESSIVE AND ITS OPERATION METHOD (Machine translation)

Abstract: Source: CO7610156A [ES] Dispositivo que genera arcos de descarga electrica por proximidad de manera intermitente y progresiva el cual es un circuito electronico (20) que trabaja en conjunto con un panel de control programable (30) y sensores de proximidad (18), electrodos de descarga (17) y alarmas inteligentes; caracterizado porque al ser instalado en un area especifica de Vehiculos, Motocicletas, Rejas etc., podemos proteger un area especifica ya sea espejos, chapas, manijas, borde inferior y superior de las puertas, capo anterior y posterior, tapa de la gasolina, etc. de un vehiculo, o el hurto de una motocicleta, etc. Nos permite el acoplamiento de la instalacion a la necesidad requerida para el usuario, ya que se trata del mismo principio comun para todos los casos: proteger y defender los bienes o partes de los vehiculos y la vida de los conductores. **Machine translation:** A device that generates arcs electric shock proximity intermittent and progressive which is an electronic circuit (20) working in conjunction with a programmable control panel (30) and proximity sensors (18), discharge electrodes (17) and intelligent alarms; characterized in that when installed in a specific area of vehicles, motorcycles, Grills etc., we can protect a specific area either mirrors, plates, handles, lower and upper edge of the doors, former kingpin and later, gas cap, etc.. of a vehicle, or theft of a motorcycle, etc. It allows the coupling of the installation to the need required for the user, since it is the same common principle for all cases. Protect and defend the goods or parts of the vehicles and the lives of drivers

Classifications:

International (IPC 8-9): B60R25/04 G08B17/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CO16112974 A1	20160520	CO20160112974	20160502
CO7610156 A1	20160520	CO20160112974	20160502

Priority:

CO20160112974 20160502

Probable Assignee:

ROBAYO ROMERO ROSA ELENA

Assignee(s): (std):

ROBAYO ROMERO ROSA ELENA

Assignee(s):

ROSA ELENA ROBAYO ROMERO

Inventor(s): (std):

ROBAYO ROMERO ROSA ELENA

Inventor(s):

ROSA ELENA ROBAYO ROMERO

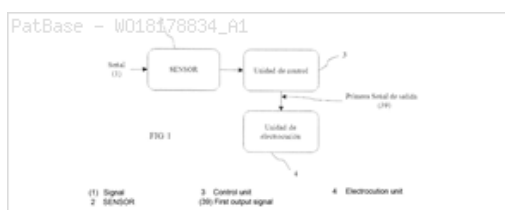
Title: DEVICE FOR PREVENTING THE THEFT OF MIRRORS IN VEHICLES

Abstract: The present invention relates to a device for preventing the theft of mirrors in vehicles, which comprises: a control unit (3); a sensor (2) connected to the control unit (3); and an electrocution unit (4) connected to the control unit (3), wherein a signal enters the sensor and is processed by the control unit, and the electrocution unit generates an electric shock at the moment of receiving the signal from the sensor (2). In addition, the electrocution unit (4) is connected in the mirrors of vehicles.

Classifications:

International (IPC 8-9): B60R16/00 B60R25/30 B60R25/31 F41H13/00 (Advanced/Invention)

CPC: B60R16/00 B60R25/30 B60R25/31 F41H13/00



Family:

Publication number	Publication date	Application number	Application date
CO20170003227 A1	20181010	CO20170003227	20170331

Priority:

CO20170003227 20170331

Probable Assignee: UNIV CATOLICA DE COLOMBIA

Assignee(s): (std): UNIV CATOLICA DE COLOMBIA

Assignee(s): UNIVERSIDAD CATOLICA DE COLOMBIA

Inventor(s): (std): OSORIO YAYA OSCAR JOWANY ; MALAGON HERNANDEZ PEDRO YILIBER ; CASTILLO MEDINA CARLOS ARTURO

Agent(s): OLARTE CARLOS R

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