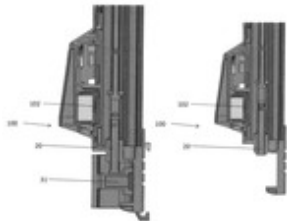
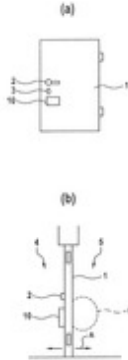
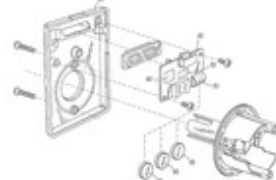
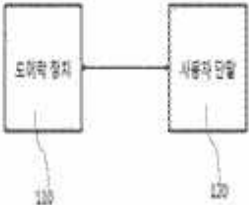
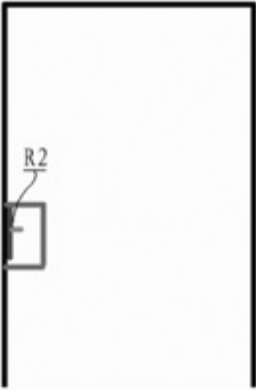
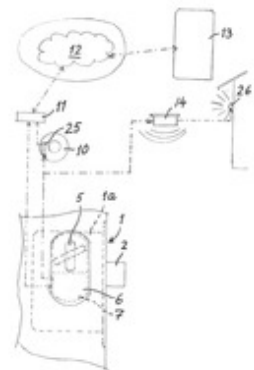


Patent families - 13 results

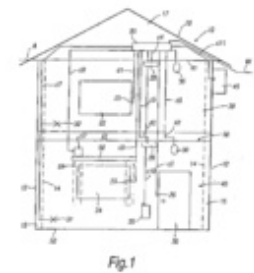
#	 	Title	Publication number	Publ. date	Applicant/Assignee			
1.		Sensor configuration for a latch assembly	EP2959079	2015-12-30				100 %
A latch assembly comprising: a latch operative to adopt a latched condition and an unlatched condition; a magnet imparting a magnetic field; a sensor adapted to sense the magnetic field; the latch, magnet and sensor being configured such that a change in the condition of the latch effects a variance in the magnetic field sensed by the sensor such that the sensor is able to distinguish between the latched condition and the unlatched condition.								
								
2.		Sensor system for a locking system, and method for detecting manipulations on a locking system	EP2978914	2016-02-03				76 %
The invention relates to a sensor system for a locking system of a door, having an acceleration sensor configured to detect movements of the door in at least two dimensions, and to record a time-resolved acceleration profile, having a magnetic field sensor configured to detect a magnetic field in the area of the locking system, to detect changes in the magnetic field, and to record a time-resolved magnetic field change profile. The sensor system further comprises a control device, which is coupled to the acceleration sensor and the magnetic field sensor, and which is configured to correlate the acceleration profile to the magnetic field change profile, to compare the profile correlation with a correlation signature that can be predetermined, and if the profile correlation concurs with the correlation signature, to emit an alarm signal.								
								
3.		Door lock sensor and alarm	WO2013/177443	2013-11-28				75 %
A door lock mechanism is disclosed that includes door lock and alarm features. The mechanism includes a controller and a sensor useful to detect motions that are representative of attempted access through a door to which the door lock mechanism is attached. The controller can set an alarm condition if a measured motion, such as a measured acceleration, meet and/or exceeds a threshold. If an appropriate access control credential is provided through a user device then the alarm condition may not be set by the controller. The door lock mechanism can be coupled to a remote station via a communications link if needed, such as a radio frequency link. The remote station can additionally be in communication with the door lock mechanism via a network. The remote station can be used to send and receive messages regarding door lock mechanism status, configuration, etc.								
								
4.		Door security apparatus	WO2004/025059	2004-03-25				74 %
A combined bell-push, radio connected door security chain and remote chime module is designed to give door security, caller notification, insecurity warnings and to warn occupants to check any callers credentials before door release. A caller pushes the bell-push, that is connected to the internal security chain housing, that transmits a radio signal to the remote chime modules. If the door chain has not been secured, the chime module will warn the occupant to secure it before opening the door. When the occupant starts to withdraw the security chain, a magnetic contact is broken and a red LED flashes on the door security chain housing, and it issues an audible warning to check the callers credentials. The door chain assembly may also comprises a chain mounting (C) mounted on the door jamb, a chain (D) mounted to the chain mounting and a chain retention slot (A) on the door. A sensor is provided to sense if the chain (D) is retained by the chain retention slot (A). An alert device is arranged in the door. Also in this embodiment a bell push can be used to activate the sensor and the sensor can be arranged to sense retention of the chain in the chain retention slot and attempted removal of the chain therefrom.								
								

5.	Door-lock device, user terminal and controlling method of door-lock device	KR20170131741	2017-11-30	CHUNG ANG UNIVERSITY INDUSTRY ACADEMIC COOPERATION FOUNDATION	74 %	
Disclosed are a door lock device, a user terminal, and a method for controlling the door lock device, which can control a door lock with increased security and safety through interworking with the user terminal. The door lock device comprises: a communication unit; a sensor for sensing an access of a visitor to the door lock device; a message generation unit for generating a security warning message according to the access sensing; an encryption unit for encrypting the security warning message by using a seed algorithm based on a time synchronization method; and a processor for controlling the encrypted security warning message to be transmitted to a designated user terminal through the communication unit.						
6.	Intelligent door lock system	WO2014/151692	2014-09-25	AUGUST HOME	74 %	
An intelligent door lock system is provided with a position sensing device configured to be coupled to a drive shaft of a lock device. The position sensing device senses position of the drive shaft and assists in locking and unlocking a lock of a lock device. An engine is provided with a memory coupled to the positioning sensing device. A circuit is coupled to the engine and an energy source is coupled to the circuit. A device converts energy into mechanical energy and is coupled to the circuit, positioning sensing device and the drive shaft. The device that converts energy is coupled to the energy source to receive energy from the energy source.						
7.	Novel lock alarm control device	CN206110860	2017-04-19	HENAN UNIVERSITY OF TECHNOLOGY	67 %	
The utility model discloses a novel lock alarm control device, including setting up the control circuit on the lock, control circuit including two kinds of control models of mode of going out and home mode, control circuit include pressure sensor R2, pressure sensor R2 and resistance R3 establish ties, singlechip STC12C5A60S2 passes through resistance R1 and connects, pressure sensor R2 and resistance R3, filter capacitance C1 connect singlechip STC12C5A60S2 and between the GND. The utility model discloses a whether the pressure sensor lock of the opposite vertex department of installation lock core has opened at present or has sealed to according to detected value suggestion with the opening and the closure state of door, prevent that the user from forgetting to lock a door, cause unnecessary to lose, inform through sound warning simultaneously that the user can more felt at ease to give up, and to produce because of anxious door unlocked state be the thought misgivings, give this just life of busy fast rhythm reduce by a worry.						

A system to detect an unauthorized attempt to open a security lock (1— 6), the system comprising a camera (10), which is directed towards the vicinity of the security lock; a communications connection between a camera (10) and a predefined mobile station (13); and a detector or sensor (8, 9), which is arranged to start the camera for transmitting a picture via said communications connection to the mobile station. The system further comprises a safety device (6) of the lock, having a safety latch (16), which has a locking position and an opening and, in which locking position, the mechanical opening of the lock with a key and/or rotary knob is prevented; at least one detector or sensor (8, 9), which is located in connection with the lock or door and arranged to detect at least one of the following events: (i) the presence of a key in the key channel (4) of lock, (ii) a movement or vibration of the door, (iii) a movement or vibration of a part of the lock. The control unit (7) of the safety device (6) is arranged to start the camera (10), when the detector or sensor (8, 9) detects one of above said events. The control unit (7) is arranged to start the camera (10) automatically only if the safety latch (16) of the safety device (6) is in the locking position and the detector or sensor (8, 9) detects one of above said events.



A central locking system for a building having at least one window or door, the system comprising a central control unit in communication with a storage means for retaining pressurised fluid, the storage means being in fluid communication with at least one locking mechanism operable in response to a signal from the central control unit to the storage means to move between an inoperative position in which the opening and closing of the associated door or window is unimpeded and an operative position in which the opening and closing of the door or window is impeded.



The utility model discloses an intelligence voice prompt safety self -locking lock, including mechanical door locks and intelligent security device, the intelligent security device includes locking module, unblock module and power supply unit, and the locking module includes the controller, the unblock module includes cell -phone unblock APP, and controller passing signal line connection has detection module, audio **alert** module, wireless bluetooth locking module and emitting diode, and wireless bluetooth locking module includes mechanical locking means, and mechanical locking means includes lock fixed frame, fixed plate, movable plate and motor, installs live tongue locking guide arm and lock core locking guide arm on the movable plate, and the fixed of key and spring bolt is realized respectively to live tongue locking guide arm and lock core locking guide arm, the utility model discloses the key is extracted to the realization photograph of unblanking, voice prompt, and the key in the keyhole is stayed for a long time in the locking, and the key of avoiding forging is taken away by intention person against the law, causes incident and economic loss.



11.

Intelligence lock based on control of cell - phone app

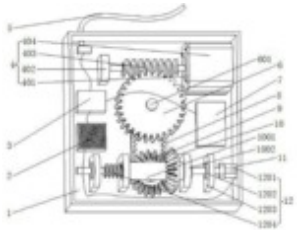
CN205531745

2016-08-31

GUIZHOU ZHONGXIAO QIANXIN
FINANCIAL INFORMATION SERVICE

62 %

The utility model discloses an intelligence lock based on control of cell -phone APP, which comprises an outer casing, the upper left end of shell body is through the fixing base line of connecting, the upper right end of shell body sets up main transfer machinery, main transfer machinery and worm wheel meshing, the worm wheel passes through key -type connection in pivot, bevel gear and the meshing of awl tooth nut, through threaded connection lock push rod mechanism in the awl tooth nut. The worm gear transmission is adopted in this intelligence lock final drive, guarantee driven auto -lock nature, avoid the automatic releasing of lock, when the door receives the impact, the police dispatch newspaper can be sent out to the siren, and suffer the information of invasion to issue house owner in the house, house owner accessible cell -phone APP signals, handle quick -witted signal processor and handle the back, just reverse by driving the integrative ware control motor of accuse, control is unblanked, can set up the different speed of unblanking, in order to adapt to different in service behaviors, avoid the difficult situation of unblanking of emergency, and is convenient for generalization and popularization.



12.

Key sensor alarm for door locks

WO96/09186

1996-03-28

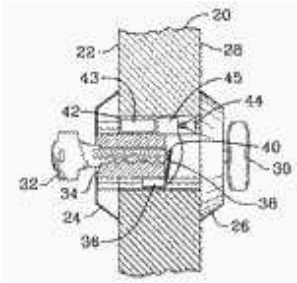
GUIM TECHNOLOGY

GUIM ELENA

GUIM R

61 %

A key reminder device for use in combination with a key lock mechanism (24) having an adjustable timer (t1) with a predetermined timer interval electrically coupled to a replaced power supply (B1). The timer (t1) is energized upon detection of a conventional key (32) inserted into the key lock mechanism (24). Should the key remain in the key lock mechanism beyond a predetermined time, the timer will activate an audible alarm (a1) to remind the owner of the keys to remove them. Should the timer be set at a low level, the device operates to indicate the presence of a key. When used in combination with a visual indicator, the key reminder provides an indicator of door entry to the hearing impaired.



13.

Anti-theft lock integrating electromechanical interlocking, magnetic pushing and alarming

CN104727646

2015-06-24

XU GANG

59 %

The invention discloses an anti-theft lock integrating electromechanical interlocking, magnetic pushing and alarming. A rear lock cylinder of the anti-theft lock is completely disconnected from a connector and a front lock cylinder, the connector is hidden in an invisible hole, locking posts are hidden in the front lock cylinder, a turntable and a corner are hidden in a lock body, the front lock cylinder is locked, a magnetic push locker and an attraction locker are hidden in the lock body and the rear lock cylinder to lock the rear lock cylinder, the front lock cylinder and the rear lock cylinder rotate asynchronously to give an alarm, an electronic remote control device is installed in a power supply circuit of an electromagnet and interrupts the power supply circuit of the electromagnet, a safety lock crossbeam cannot be opened, and a complete and thorough thievery prevention effect is achieved; electromechanical interlocking, mechanical interlocking, invisibility, connection invisibility of the front lock cylinder and the rear lock cylinder and asynchronous alarming are integrated, a thief cannot open an interlocking device or rotate the rear lock cylinder and can only rotate the front lock cylinder even using savage means to damage and rotate a locking device, and the rear lock cylinder cannot be rotated.

