Document Number	Publication Date	Title	Abstract	Inventor Name	Assignee	Application Number	Filing Date	Pr Cl
7253643	2007-08-07	Uninterrupted radial capacitive sense interface	A technique for implementing a center key in a capacitive sense radial slider interface without use of center mechanical button. A user interaction with an array of capacitive sensors within the radial slider interface is sensed. It is determined whether at least a threshold number greater than one of the capacitive sensors within the array are concurrently actuated by the user interaction. A center key actuation is registered if at least the threshold number of the capacitive sensors are concurrently actuated.	Seguine, Ryan D. (Seattle, WA, US)	Cypress Semiconductor Corpor	11/489944	2006-07-19	32
7293467	2007-11-13	Anti-entrapment system	An anti-entrapment system for preventing objects from being entrapped by a translating device includes a capacitance sensor positioned adjacent to the translating device and a controller. The sensor has first and second conductors separated by a separation distance and a compressible dielectric element interposed between the conductors. The conductors have a capacitance dependent upon the separation distance. The capacitance of the conductors changes in response to a geometry of the sensor changing as a result of either conductor or the dielectric element deforming in response to a first object touching the sensor. The capacitance of the conductors changes in response to a second conductive object coming into proximity with either conductor. The controller receives a signal from the sensor indicative of the capacitance of the conductors, and controls the translating device as a function of the capacitance of the conductors to prevent the translating device from entrapping either object.	Shank, David W. (Hersey, MI, US); Perrin, Randall L. (Cadillac, MI, US); Washeleski, John (Cadillac, MI, US)	Nartron Corporation (Reed City	11/584043	2006-10-20	73
7307485	2007-12-11	Capacitance sensor using relaxation oscillators	An apparatus that may be used to sense capacitance, as well as other functions. The apparatus includes a comparator circuit with hysteresis, a capacitor, and a current driver. The comparator circuit with hysteresis includes a first input and an output. The capacitor is coupled to the first input of the comparator circuit with hysteresis. The current driver is coupled to the output of the comparator circuit with hysteresis and to the capacitor. The current driver reciprocally sources and sinks a drive current through a terminal of the capacitor to oscillate a voltage potential at the terminal of the capacitor between a low reference potential and a high reference potential. The current driver is responsive to the output of the comparator circuit with hysteresis.	Snyder, Warren S. (Snohomish, WA, US); Ess, David Van (Arlington, WA, US)	Cypress Semiconductor Corpor	11/273708	2005-11-14	33

7312591	2007-12-25	Powered panel moving system	A powered panel moving system includes a motor, electronic drive circuitry, a mechanism, a coupler, and electronic function circuitry. The drive circuitry drives a rotor of the motor. The coupler couples rotational output of the rotor to the mechanism to drive the mechanism in order to move the panel. The function circuitry is integrated with the drive circuitry for providing additional functionality beyond driving the motor for panel movement. The drive circuitry includes a current sensor for determining rotor position based on motor current, a back emf sensor for determining rotor position based on back emf of the motor, and an impedance sensor for determining rotor position based on motor impedance. The function circuitry may include an analyzer to determine presence of an obstruction to the motion of the panel based on at least one of the rotor position, the motor current, and the back emf of the motor.	Washeleski, John M. (Cadillac, MI, US); Cooper, Stephen R. W. (Fowlerville, MI, US); Strom, Peter H. (Big Rapids, MI, US); Newman, Todd R. (Traverse City, MI, US)	NPC Corporation (Reed City, M	11/079016	2005-03-11	31
7312616	2007-12-25	Successive approximate capacitance measurement circuit	A capacitance measurement circuit includes a current source, a switch, and a comparator. The current source is coupled to drive a current through a circuit node. The switch is coupled to the circuit node to switch the current into a device under test ("DUT") capacitor. The comparator includes first and second input ports. The comparator is coupled to compare a first voltage received on the first input port against a reference voltage received on the second input port. The first voltage is related to the current driven through the circuit node, a frequency at which the switch is switched, and a capacitance of the DUT capacitor.	Snyder, Warren S. (Snohomish, WA, US)	Cypress Semiconductor Corpor	11/337272	2006-01-20	32
7342373	2008-03-11	Vehicle panel control system	A control system for a vehicle includes a controller, an object sensor, and a motor. The motor receives power from a power source upon receiving a panel control signal. The motor moves a movable panel of the vehicle along a path between opened and closed positions when the motor receives power from the power source. The object sensor is operable for detecting objects in the path of the panel without monitoring the motor. The object sensor generates an object signal indicative of an object being detected in the panel path. The controller is operable for transmitting a panel control signal to the motor to move the panel. When the panel is moving in a closing direction the controller transmits a panel control signal to the motor to reverse movement of the panel to an opening direction upon receiving the object signal to prevent the panel from entrapping an object.	Newman, Todd R. (Traverse City, MI, US); Washeleski, John M. (Cadillac, MI, US)	Nartron Corporation (Reed City	11/325579	2006-01-04	31

7449852	2008-11-11	Powered panel moving system	A powered panel moving system includes a motor, electronic drive circuitry, mechanics, a coupler, and electronic anti-entrapment circuitry. The drive circuitry drives a rotor of the motor such that the rotor has a rotational output in response to being driven. The mechanics moves a panel upon being driven. The coupler couples the rotational output of the rotor to the mechanics in order drive the mechanics for the mechanics to move the panel. The anti-entrapment circuitry controls the drive circuitry to prevent the panel from entrapping an object. The drive circuitry drives the motor based on measurements indicative of at least one of motor current, motor speed, and panel position. The drive circuitry and the anti-entrapment circuitry are integrated with one another such that the anti-entrapment circuitry controls the drive circuitry based on the same measurements.	Washeleski, John M. (Cadillac, MI, US); Cooper, Stephen R. W. (Fowlerville, MI, US); Strom, Peter H. (Big Rapids, MI, US); Newman, Todd R. (Traverse City, MI, US)	Nartron Corporation (Reed City)	11/906279	2007-10-01	31
7453443	2008-11-18	Method of deactivating lock and portable electronic device	The invention relates to a method of deactivating the touch screen lock in a portable electronic device comprising a touch screen and means for locking the touch screen. The method comprises detecting touches on predetermined contact areas on the touch screen in a given order during touch screen lock and deactivating the touch screen lock once said touches on said predetermined contact areas are detected. The invention also relates to a portable electronic device comprising a touch screen and means for locking the touch screen. The device comprises means for detecting touches on predetermined contact areas on the touch screen in a given order during touch screen lock and deactivating the touch screen lock once said touches on said predetermined contact areas are detected.	Rytivaara, Markku (Oulu, FI); Mustonen, Mika (Ii, FI); Tokkonen, Timo (Oulu, FI)	Nokia Corporation (Espoo, FI)	10/518220	2003-06-16	34

7483252	2009-01-27	Circuit protection device	A voltage suppression device for suppressing voltage surges in an electrical circuit, comprised of a voltage sensitive element having a predetermined voltage rating, the voltage sensitive element increasing in temperature as voltage applied across the voltage sensitive element exceeds the voltage rating. Terminals are provided for electrically connecting the voltage sensitive element between a power line of an electrical circuit and a ground or neutral line of the electrical circuit. A normally closed, thermal switch is electrically connected in series with the voltage sensitive element between one line of the electrical circuit and the voltage sensitive element, the thermal switch being thermally coupled to the voltage sensitive element wherein the thermal switch moves from a normally closed position to an open position to form a gap between the thermal switch and the voltage sensitive element when the temperature of the voltage sensitive element reaches a level indicating an over-voltage condition. When the thermal switch moves to the open position, residual follow on current is shunted by a fuse element connected in parallel with the thermal switch. Current flows through the fuse element until the fuse element melts. Electrical arcing is contained inside the fuse until extinguished.	De Palma, Jean-francois (Arlington, MA, US); Mosesian, Jerry L. (Newburyport, MA, US)	Ferraz Shawmut S.A. (Villeurba	11/566705	2006-12-05	36
7504787	2009-03-17	Capacitive squeeze protecting device	A capacitive squeeze protecting device having a high degree of security and flexibility for automatic doors. The squeeze protecting device is arranged to detect the presence of an object in a protection field comprising a housing and an antenna unit connected to a detecting circuit, which circuit is arranged to, via said antenna unit, detect capacitive variations in an electric or electromagnetic field at said antenna unit. The detecting circuit comprises means connected to said antenna unit arranged to detect a variation of the pressure at said antenna unit caused by a compressive force applied at said housing, wherein the presence of conductive as well as non-conductive object can be detected. Furthermore, the invention includes a system and methods for detecting for detecting the presence of an object in a protection field at a door.	Hansson, Goran (Gronstensvagen 10, Uppsala, S-752 41, SE); Lindgren, Bo (Varmdo, SE); Norberg, Stig (Jarfalla, SE)	Hansson, Goran (Uppsala, SE)	10/527394	2003-09-12	31

7513166	2009-04-07	Anti-entrapment system	An anti-entrapment system for preventing objects from being entrapped by a translating device includes a capacitance sensor positioned adjacent to the translating device and a controller. The sensor has first and second conductors separated by a separation distance and a compressible dielectric element interposed between the conductors. The conductors have a capacitance dependent upon the separation distance. The capacitance of the conductors changes in response to a geometry of the sensor changing as a result of either conductor or the dielectric element deforming in response to a first object touching the sensor. The capacitance of the conductors changes in response to a second conductive object coming into proximity with either conductor. The controller receives a signal from the sensor indicative of the capacitance of the conductors, and controls the translating device as a function of the capacitance of the conductors to prevent the translating device from entrapping either object.	Shank, David W. (Hersey, MI, US); Perrin, Randall L. (Cadillac, MI, US); Washeleski, John (Cadillac, MI, US)	Nartron Corporation (Reed City	11/901831	2007-09-19	73
7518327	2009-04-14	Vehicle panel control system	A system includes a controller and a sensor. The controller transmits a panel control signal to a motor for the motor to move a movable panel of a vehicle along a path between opened and closed positions while the motor receives power from a power source. The motor receives power from the power source upon receiving the panel control signal. The sensor detects objects in the path without monitoring the motor. The sensor generates an object signal indicative of an object being detected in the path of the panel. When the panel is moving in a closing direction, the controller transmits a panel control signal to the motor to reverse movement of the panel to an opening direction upon receiving the object signal in order to prevent the panel from entrapping an object. The controller communicates with vehicle modules over an in-vehicle local area network (LAN).	Newman, Todd R. (Traverse City, MI, US); Washeleski, John M. (Cadillac, MI, US)	Nartron Corporation (Reed City	12/008010	2008-01-08	31

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