PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Mario Boisvert *et al.*

Serial No.: filed concurrently herewith

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Title: *COLLISION MONITORING SYSTEM*

Examiner: Prior Examiner Marlon T. Fletcher

Prior Art Unit: 2837

Docket No.: 14-733C2D1 US CON1

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Commissioner for Patents
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PRELIMINARY AMENDMENT

Prior to substantive examination, please enter the following amendment:

January 28, 2009

In the Specification, at page 1, line 4 amend the paragraph as follows:

CROSS REFERENCE TO RELATED APPLICATIONS:

The present application is a continuation of application serial number 10/100,892 which is a continuation –in-part of application serial no. 09/562,986 filed May 1, 2000 which is a continuation-in-part of application serial number 08/736,786 to Boisvert et al. which was filed on October 25, 1996, now US patent no. 6,064,165 which was a continuation of united States application serial number 08/275,107 to Boisvert et al. which was filed on July 14, 1994 which is a continuation in part of application serial number 07/872,190 filed April 22, 1992 to Washeleski et al., now United States patent 5,334,876. These related applications are incorporated herein by reference. Applicants also incorporate by reference United States patent number 5,952,801 to Boisvert et al, which issued September 14, 1999. This application also claims priority from United States Provisional application serial no. 60/169,061 filed December 6, 1999 which is also incorporated herein by reference.

In the Drawings:

Please substitute the enclosed "Replacement Sheet" for Figure 2D of the application as filed which adds a box for a motor M mentioned in the specification.

Claim Status

Please cancel claims 1 – 28 without prejudice or disclaimer.

1 - 28 (cancelled)

Please add claims 29 - 39:

29. (New) Apparatus for controlling activation of a motor coupled to a motor vehicle window or panel for moving said window or panel along a travel path and de-activating the motor if an obstacle is encountered by the window or panel, said apparatus comprising:

a) a sensor for sensing movement of the window or panel and providing a sensor output signal related to a speed of movement of the window or panel;

b) a switch for controllably actuating the motor by providing an energization signal; and

c) a controller having an interface coupled to the sensor and the switch for controllably energizing the motor; said controller sensing a collision with an obstruction when power is applied to the controller by:

i) monitoring movement of the window or panel by monitoring a signal from the sensor related to the movement of the window or panel;

ii) adjusting an obstacle detection threshold in real time based on immediate past measurements of the signal sensed by the sensor to adapt to varying conditions encountered during operation of the window or panel;

iii) identifying a collision of the window or panel with an obstacle due to a change in the signal from the sensor that is related to a change in movement of the window or panel by comparing a value based on a most recent signal from the sensor with the obstacle detection threshold; and

iv) outputting a control signal to said switch to deactivate said motor in response to a sensing of a collision between an obstacle and said window or panel.

30. (New) The apparatus of claim 29 wherein the controller comprises a programmable controller including a processing unit for executing a control program and including a memory

for storing multiple window or panel speed values corresponding to a signal received from the sensor.

31. (New) The apparatus of claim 29 additionally comprising one or more limit switches for use by the controller to determine window or panel position for use in identifying a collision.

32. (New) The apparatus of claim 29 wherein the controller maintains a position of a leading edge of the window or panel and further wherein the controller reverse energizes the motor to move the window or panel away from a closure position prior to activating the motor to close the window or panel.

33. (New) The apparatus of claim 32 wherein the controller reverse energizes the motor in response to a sensing of an obstacle and the reverse energizing and attempt to move the window or panel to a closed position is performed to confirm sensing of the obstacle.

34. (New) The apparatus of claim 29 wherein the immediate past measurements of said signal are sensed within a forty millisecond interval prior to the most recent signal from the sensor.

35. (New) Apparatus for controlling activation of a motor coupled to a motor vehicle window or panel for moving said window or panel along a travel path and de-activating the motor when the window or panel is within an acceptable range of a predetermined position , said apparatus comprising:

a) a sensor for sensing movement of the window or panel and providing a sensor output signal related to a position of the window or panel;

b) a switch for controllably actuating the motor by providing an energization signal; and

c) a controller having an interface coupled to the sensor and the switch for

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