CLAIMS

[Claim 1] A control system for controlling one or more devices including at least one suspended particle device ("SPD") window,

(a) wherein the control system comprises:

(i) a control device in communication with the one or more devices; and

(ii) a remote control unit configured to transmit device control instructions based on user input from a user and current environmental information obtained by the remote control unit;

(b) wherein the control device is configured to control the operation of the one or more devices including the at least one SPD window according to the device control instructions received from the remote control unit;

(c) wherein the remote control device further comprises a sensor providing current environmental information regarding conditions in the vicinity of the remote control device;

(d) wherein the remote control device further comprises an input element configured to receive information from a user;

(e) wherein the information provided by the user is threshold information indicating a desired value for at least one said environmental condition;

(f) wherein the current environmental information includes sound level information indicating a present sound level in the vicinity of the remote control device; and

(~~f~~g) wherein the remote control unit transmits instructions to the one or more devices to operate the devices when the sound level is above a desired sound level.

[Claim 2] A control system for controlling one or more devices including at least one suspended particle device ("SPD") window,

(a) wherein the control system comprises:

(i) a control device in communication with the one or more devices; and

(ii) a remote control unit configured to transmit device control instructions based on user input from a user and current environmental information obtained by the remote control unit;

(b) wherein the control device is configured to control the operation of the one or more devices including the at least one SPD window according to the device control instructions received from the remote control unit;

(c) wherein the current environmental information includes an indication of a user's heartbeat or pulse; and

(d) wherein the remote control unit provides an indication to a user when the user's heartbeat or pulse drop's below a preset level.

[Claim 3] The control system of claim 2, wherein the remote control unit transmits instructions to the one or more devices to contact medical help when the user requests help in response to the indication.

[Claim 4] The control unit of claim 2, wherein the remote control unit transmits instructions to the one or more devices to contact medical help when the user provides no response to the indication after a predetermined period of time.

[Claim 5] A control system for controlling one or more devices including at least one suspended particle device ("SPD") window in a first automobile, the control system comprising:

(a) a control device in communication with the one or more devices;

(b) a data processor device of a second automobile configured to provide information to the control device;

(c) the control device configured to control operation of the one or more of the devices including the at least one SPD window by providing instructions to the one or more devices including the at least one SPD window based on the information received from the data processor; and

(d) a transceiver configured to transmit and receive information with the second automobile and the information from the second automobile is location information related to the location of the second automobile relative to the first automobile, and the instructions from the control device depend on the location information.

[Claim 6] The control system of claim 5, wherein the information device is a remote control unit.

[Claim 7] The control system of claim 5, wherein information device is a central computer of the automobile in communication with an external communication network.

[Claim 8] A control system for controlling one or more devices including at least one suspended particle device ("SPD") window,

(a) wherein the control system comprises:

(i) a control device in communication with the one or more devices;

(ii) a remote control unit configured to transmit device control instructions based on user input from a user and current environmental information obtained by the remote control unit; and

(iii) a GPS system configured to provide location information indicative of a location of the first automobile, wherein the instructions from the control device are based on the location of the first automobile;

(b) wherein the control device is configured to control the operation of the one or more devices including the at least one SPD window according to the device control instructions received from the remote control unit; and

(c) wherein the at least one SPD window is connected to the control device and adjustable to increase or decrease a tint of the glass therein based on the instructions from the control device.

[Claim 9] A control system for controlling one or more devices including at least one suspended particle device ("SPD") window,

(a) wherein the control system comprises:

(i) a control device in communication with the one or more devices;

(ii) a remote control unit configured to transmit device control instructions based on user input from a user and current environmental information obtained by the remote control unit; and

(iii) at least one light sensor positioned on the first automobile and connected to the control device to provide a detected light level of light shining on the first automobile, wherein the instructions to the SPD window are based on the detected light level;

(b) wherein the control device is configured to control the operation of the one or more devices including the at least one SPD window according to the device control instructions received from the remote control unit; and

(c) wherein the at least one SPD window is connected to the control device and adjustable to increase or decrease a tint of the glass therein based on the instructions from the control device.

[Claim 10] A control system for controlling one or more devices including at least one suspended particle device ("SPD") window,

(a) wherein the control system comprises:

(i) a control device in communication with the one or more devices; and

(ii) a remote control unit configured to transmit device control instructions based on user input from a user and current environmental information obtained by the remote control unit;

(b) wherein the control device is configured to control the operation of the one or more devices including the at least one SPD window according to the device control instructions received from the remote control unit;

(c) wherein the at least one SPD window is connected to the control device and adjustable to increase or decrease a tint of the glass therein based on the instructions from the control device; and

(d) wherein the information device is a mobile device of a third party and the information provided to the control device reduces the tint of the SPD window.

[Claim 11] A control system for controlling one or more devices including at least one suspended particle device ("SPD") window,

(a) wherein the control system comprises:

(i) a control device in communication with the one or more devices; and

(ii) a remote control unit configured to transmit device control instructions based on user input from a user and current environmental information obtained by the remote control unit;

(b) wherein the control device is configured to control the operation of the one or more devices including the at least one SPD window according to the device control instructions received from the remote control unit;

(c) wherein the at least one SPD window is connected to the control device and adjustable to increase or decrease a tint of the glass therein based on the instructions from the control device; and

(d) wherein the information device is a remote stationary computer of a third party and the information provided to the control device reduces the tint of the SPD window.

[Claim 12] The control system of claim 5, wherein the at least one SPD window is connected to the control device and adjustable to increase or decrease a tint of the glass therein based on instructions from the control device.

[Claim 13] The control system of claim 12, wherein the information from the second automobile is headlight intensity information related to headlight intensity of the another second automobile and the instructions from the control device depend on the headlight intensity information.

[Claim 14] The control system of claim 12, further comprising at least one SPD headlight element connected to the control device and adjustable to increase and decrease light intensity of at least one headlight.

[Claim 15] The control system of claim 14, wherein the control device sends instructions to the SPD headlight assembly based on the location information.

[Claim 16] A control system for controlling one or more devices including at least one suspended particle device (“SPD”) window,

(a) wherein the control system comprises:

(i) a control device in communication with the one or more devices; and

(ii) a remote control unit configured to transmit device control instructions based on user input from a user and current environmental information obtained by the remote control unit;

(b) the control device configured to control the operation of the one or more devices including the at least one SPD window according to the device control instructions received from the remote control unit;

(c) wherein the at least one SPD window is connected to the control device and adjustable to increase or decrease a tint of the glass therein based on the instructions from the control device; and

(d) wherein the information provided by the information device is accident indication information and the instructions to the SPD window are based on the accident indication information.

[Claim 17] The control system of claim 16, further comprising an auxiliary power source positioned adjacent to the at least one SPD window to provide power thereto.