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9
 10 UNITED STATES DISTRICT COURT
 11 NORTHERN DISTRICT OF CALIFORNIA

12 TESLA MOTORS, INC.

13 Plaintiff,

14 vs.

15 POINTSET CORPORATION,

16 Defendant.
 17

Case No.:

**COMPLAINT FOR DECLARATORY
 JUDGMENT OF PATENT NON-
 INFRINGEMENT**

DEMAND FOR JURY TRIAL

18
 19 **PARTIES**

20 1. Plaintiff Tesla Motors, Inc. (“Tesla”) is a corporation organized and existing
 21 under the laws of the state of Delaware and having a principal place of business at 3500 Deer
 22 Creek Road, Palo Alto, CA 94304.

23 2. Upon information and belief, defendant pointSET Corporation (“pointSET”) is a
 24 corporation having a place of business at 12400 Wilshire Boulevard, 7th Floor, Los Angeles, CA
 25 90025-1026.

1 (4) That Tesla be awarded its costs, expenses and reasonable attorneys' fees in this
2 action; and

3 (5) That Tesla be awarded such other and further relief as the Court may deem
4 appropriate.

5 Respectfully submitted,

6
7 

8 Jonathan Butler, CA State Bar No. 229638
9 Steven Cooper, CA State Bar No. 143312
10 Richard Soderberg, MN State Bar No. 305637
11 (*Application for Admission Pro Hac Vice*
12 *Forthcoming*)

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18 Attorneys for Plaintiff
19 TESLA MOTORS, INC.
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28

1 DEMAND FOR JURY TRIAL

2 Tesla hereby requests a trial by jury.

3
4 Respectfully submitted,

5 

6
7 Jonathan Butler, CA State Bar No. 229638
8 Steven Cooper, CA State Bar No. 143312
9 Richard Soderberg, MN State Bar No. 305637
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18 Attorneys for Plaintiff
19 TESLA MOTORS, INC.
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Exhibit A



US007379541B2

(12) **United States Patent**
Iggulden et al.

(10) **Patent No.:** **US 7,379,541 B2**
(45) **Date of Patent:** ***May 27, 2008**

(54) **METHOD AND APPARATUS FOR SETTING PROGRAMMABLE FEATURES OF A MOTOR VEHICLE**

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(73) Assignee: **Pointset Corporation**, Los Angeles, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 5 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **10/938,689**

(22) Filed: **Sep. 10, 2004**

(65) **Prior Publication Data**
US 2005/0031100 A1 Feb. 10, 2005

Related U.S. Application Data

(63) Continuation of application No. 10/757,087, filed on Jan. 13, 2004, now Pat. No. 7,289,611, which is a continuation-in-part of application No. 10/155,531, filed on May 24, 2002, now Pat. No. 6,882,712, which is a continuation-in-part of application No. 09/415,299, filed on Oct. 8, 1999, now Pat. No. 6,483,906, which is a continuation-in-part of application No. 09/351,270, filed on Jul. 12, 1999, now Pat. No. 6,256,378, which is a continuation-in-part of application No. 09/235,709, filed on Jan. 22, 1999, now Pat. No. 6,415,023.

(51) **Int. Cl.**
H04M 11/00 (2006.01)

(52) **U.S. Cl.** **379/102.03; 379/102.05**

(58) **Field of Classification Search** 379/102.03, 379/102.01, 102.02, 90.01, 110.01, 93.17, 379/93.25, 102.05
See application file for complete search history.

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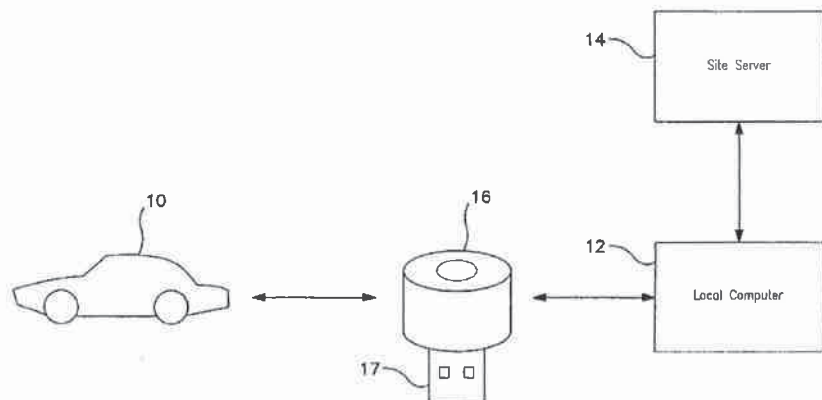
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(57) **ABSTRACT**

An interactive interface facilitates the setting of preferences and other programmable parameters of a motor vehicle. The interface is hosted by a server on a global computer network. The motor vehicle owner initiates a connection to the server and is presented with a graphical user interface for setting the preferences and features of the motor vehicle. Once the desired settings have been made, they are transferred to the motor vehicle using a portable transfer device, which may comprise a key for operating the motor vehicle.

10 Claims, 5 Drawing Sheets



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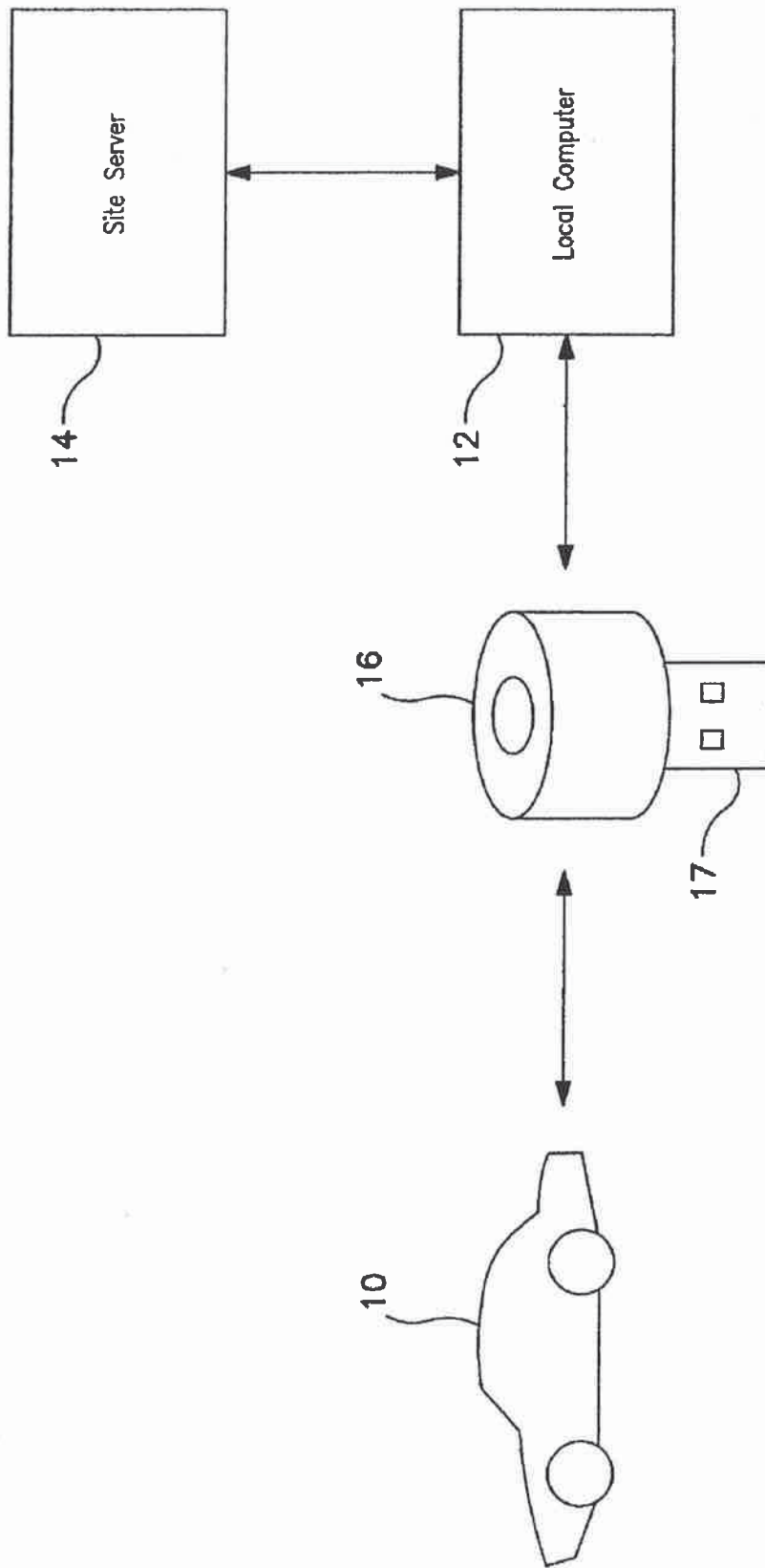


FIG. 1

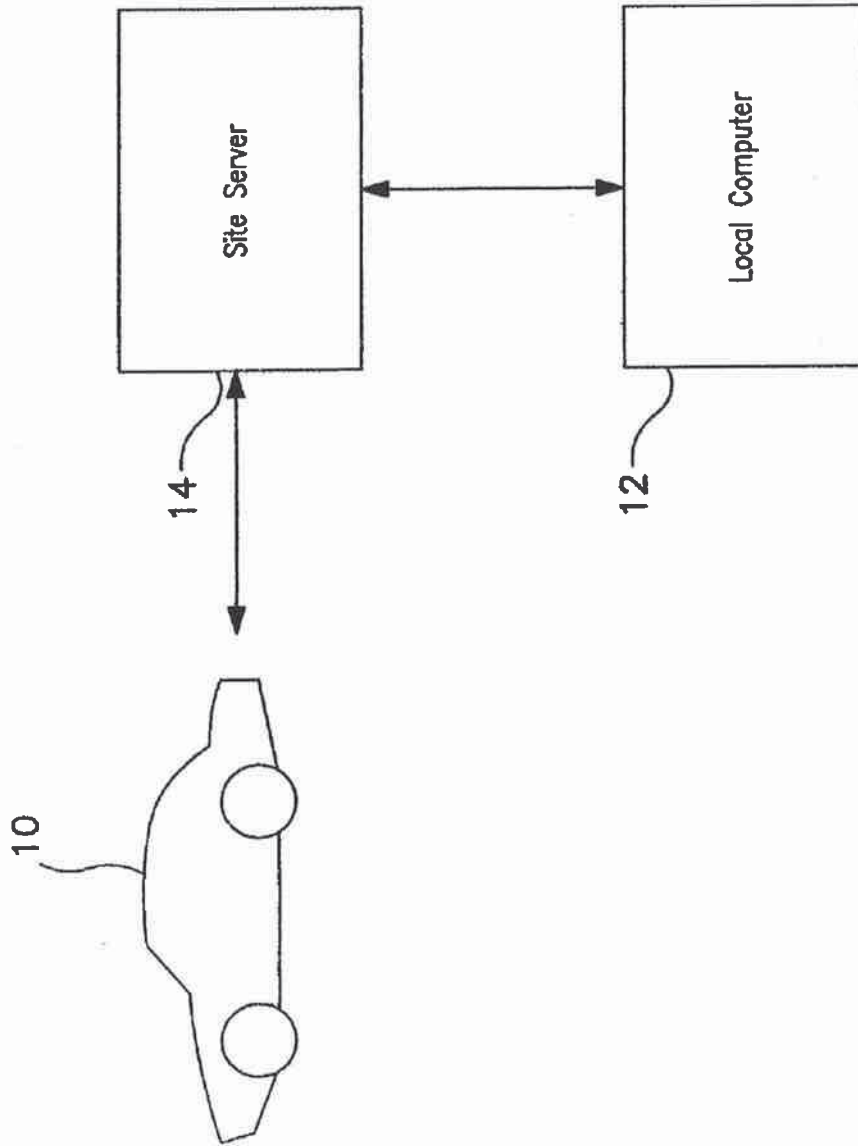


FIG. 2

Interior

Audio | Climate | Navigation | Phase | Effects | Touchscreen

Radio Settings

Station presets Set your station presets Search for stations in your area [RESET]

AM FM1 FM2

Zip Code [94086] [Search]

Freq.	Name
1 [92.5]	[KTXL]
2 [93.1]	[KRCA]
3 [93.9]	[KTAR]
4 [100.5]	[KWOW]
5 [107.9]	[KOLT]

Stations found:

92.5	KTXL
93.1	KRCA
94.5	KTAT
100.5	KWOW
106.5	KWHW

<< Copy

Weather interrupt Automatically change channels to receive weather alert messages Yes

Traffic interrupt Automatically change channels to receive traffic alert messages Yes

Standby EBS Always monitor for emergency broadcast messages (EBS) and automatically turn on radio when found Yes

Scan pause How long to pause when a station is found when scanning [Slider] 1 sec
Short Long

General Audio Settings [RESET]

Speed volume control Automatically adjusts audio volume based on vehicle speed [Slider] 4
Softer Louder

Volume on phone Automatically change to this audio volume when phone rings, or when using the phone. Disable feature
[Slider] 10
Softer Louder

Startup options Automatically set audio volume when starting car after sitting for more than 4 hours Disable feature
[Slider] 50
Low High

Automatically select audio source when starting car after sitting for more than 4 hours Disable feature
 AM FM1 FM2 CD
 1 2 3 4 5

CD Settings

Label CDs Uses CDNOW database to label your car CDs and songs [Use CDNOW...]

MP3 Settings

Move MP3 files to car Move MP3 files from your computer to the car [Browse...]

FIG. 3

Interior					
Audio	Climate	Navigation	Phase	Effects	Touchscreen
Personal Climate Settings		Driver: John			
RESET					
Temperature	Automatically select this temperature when this driver starts the car	<div style="display: flex; align-items: center;"> <div style="flex-grow: 1; border: 1px solid gray; position: relative;"> <div style="position: absolute; left: 5px; top: 5px;">Cool</div> <div style="position: absolute; right: 5px; top: 5px;">Warm</div> <div style="position: absolute; left: 50%; transform: translate(-50%, -50%);"> <div style="width: 100%; height: 10px; background: linear-gradient(to right, white 48%, black 48%, black 52%, white 52%);"></div> </div> </div> <div style="margin-left: 10px;">72F</div> </div>			
Humidity	Automatically select this humidity when this driver starts the car	<div style="display: flex; align-items: center;"> <div style="flex-grow: 1; border: 1px solid gray; position: relative;"> <div style="position: absolute; left: 5px; top: 5px;">Dry</div> <div style="position: absolute; right: 5px; top: 5px;">Humid</div> <div style="position: absolute; left: 50%; transform: translate(-50%, -50%);"> <div style="width: 100%; height: 10px; background: linear-gradient(to right, white 70%, black 70%, black 30%, white 30%);"></div> </div> </div> <div style="margin-left: 10px;">70%</div> </div>			
Seat warmer	Temperature when seat warmer is enabled	<div style="display: flex; align-items: center;"> <div style="flex-grow: 1; border: 1px solid gray; position: relative;"> <div style="position: absolute; left: 5px; top: 5px;">Warm</div> <div style="position: absolute; right: 5px; top: 5px;">Hot</div> <div style="position: absolute; left: 50%; transform: translate(-50%, -50%);"> <div style="width: 100%; height: 10px; background: linear-gradient(to right, white 80%, black 80%, black 20%, white 20%);"></div> </div> </div> <div style="margin-left: 10px;">99F</div> </div>			
Comfort index	How aggressive the AUTO climate control responds to adjust temperature and humidity	<div style="display: flex; align-items: center;"> <div style="flex-grow: 1; border: 1px solid gray; position: relative;"> <div style="position: absolute; left: 5px; top: 5px;">Gentle</div> <div style="position: absolute; right: 5px; top: 5px;">Aggressive</div> <div style="position: absolute; left: 50%; transform: translate(-50%, -50%);"> <div style="width: 100%; height: 10px; background: linear-gradient(to right, white 20%, black 20%, black 80%, white 80%);"></div> </div> </div> <div style="margin-left: 10px;">4</div> </div>			
General Climate Settings					
RESET					
Auto fan speed	Tailor fan speed when climate control is in AUTO mode	<div style="display: flex; align-items: center;"> <div style="flex-grow: 1; border: 1px solid gray; position: relative;"> <div style="position: absolute; left: 5px; top: 5px;">Softer</div> <div style="position: absolute; right: 5px; top: 5px;">Harder</div> <div style="position: absolute; left: 50%; transform: translate(-50%, -50%);"> <div style="width: 100%; height: 10px; background: linear-gradient(to right, white 40%, black 40%, black 60%, white 60%);"></div> </div> </div> <div style="margin-left: 10px;">4</div> </div>			
InitialTemp	Automatically heat or cool car's interior at preset time of day	<input type="checkbox"/> Disable feature			
	Temperature is maintained for 30 minutes unless car is started.	Morning Time: 6:00 AM <input checked="" type="checkbox"/> Week day only Temp: <div style="display: flex; align-items: center;"> <div style="flex-grow: 1; border: 1px solid gray; position: relative;"> <div style="position: absolute; left: 5px; top: 5px;">Cool</div> <div style="position: absolute; right: 5px; top: 5px;">Warm</div> <div style="position: absolute; left: 50%; transform: translate(-50%, -50%);"> <div style="width: 100%; height: 10px; background: linear-gradient(to right, white 50%, black 50%, black 50%, white 50%);"></div> </div> </div> <div style="margin-left: 10px;">72 F</div> </div>			
	Feature is disabled if car is occupied or hood is open.	Evening Time: 5:30 PM <input checked="" type="checkbox"/> Week day only Temp: <div style="display: flex; align-items: center;"> <div style="flex-grow: 1; border: 1px solid gray; position: relative;"> <div style="position: absolute; left: 5px; top: 5px;">Cool</div> <div style="position: absolute; right: 5px; top: 5px;">Warm</div> <div style="position: absolute; left: 50%; transform: translate(-50%, -50%);"> <div style="width: 100%; height: 10px; background: linear-gradient(to right, white 50%, black 50%, black 50%, white 50%);"></div> </div> </div> <div style="margin-left: 10px;">72 F</div> </div>			

FIG. 4

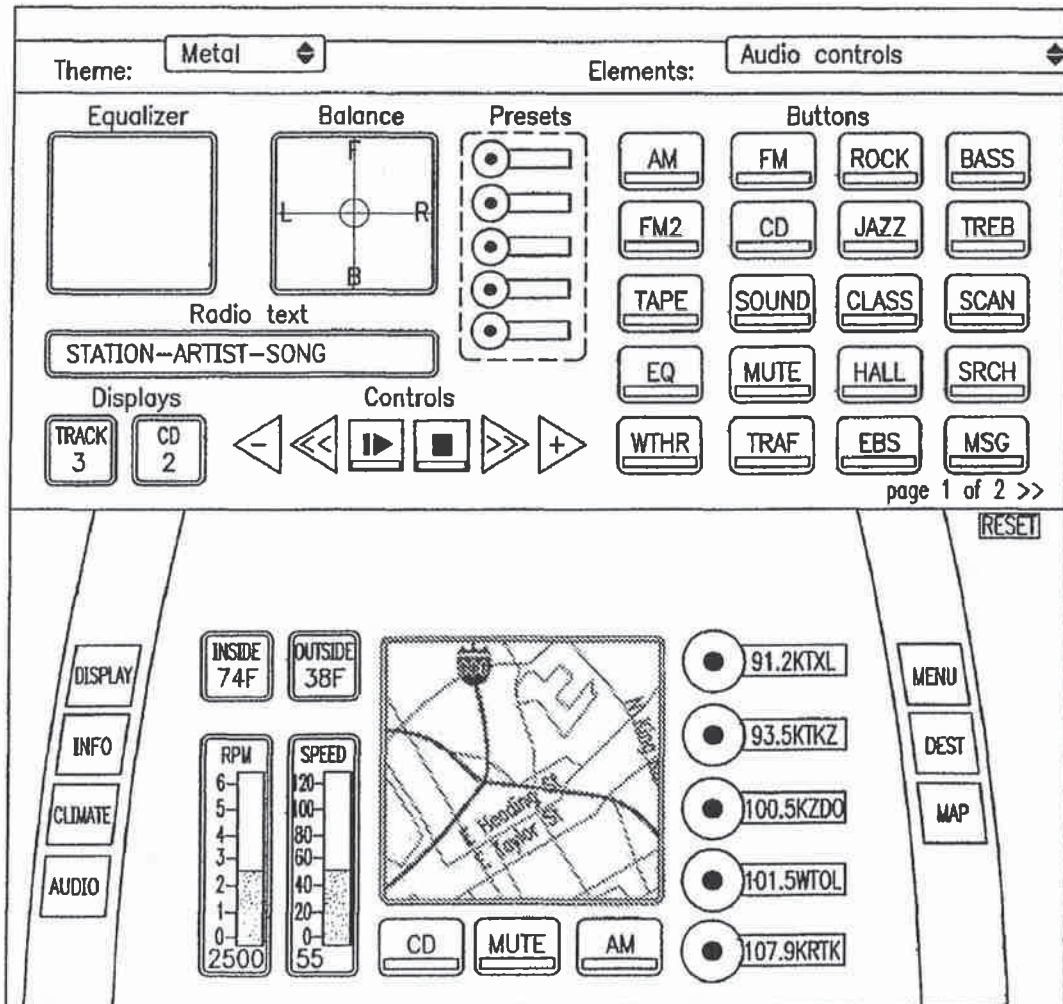


FIG. 5

1

METHOD AND APPARATUS FOR SETTING PROGRAMMABLE FEATURES OF A MOTOR VEHICLE

RELATED APPLICATIONS

This is a continuation of application U.S. Ser. No. 10/757,087 filed Jan. 13, 2004, now U.S. Pat. No. 7,289,611, which is a continuation-in-part of application Ser. No. 10/155,531 filed May 24, 2002, now U.S. Pat. No. 6,882,712, which is a continuation-in-part of application Ser. No. 09/415,299, filed Oct. 8, 1999, now U.S. Pat. No. 6,483,906, which is a continuation-in-part of application Ser. No. 09/351,270, filed Jul. 12, 1999, now U.S. Pat. No. 6,256,378, which is a continuation-in-part of application Ser. No. 09/235,709, filed Jan. 22, 1999, now U.S. Pat. No. 6,415,023.

BACKGROUND OF THE INVENTION

1. Field of the Invention

This invention relates generally to the field of motor vehicles. More particularly, the invention provides a method and apparatus for conveniently setting various programmable features of a motor vehicle using a graphical user interface accessed with a computer.

2. Prior Art

Motor vehicles, and automobiles in particular, have grown increasingly complex. A modern automobile may contain as many as fifty microprocessors controlling a wide variety of operational and convenience features. While much of the processing power is devoted to functions that are transparent to the driver, the number of driver-selectable features and options has increased tremendously. For example, automobiles may include driver controls for seating position, seat temperature, cabin temperature, cabin ventilation, cabin illumination, dash illumination, audio entertainment, navigation, suspension compliance and transmission shift-mode, to name only a few. Providing driver control of all of these functions has led to a proliferation of knobs, buttons, switches and other controls in many automobiles.

The increased number of driver controls is not without its drawbacks. Typically, drivers must refer to increasingly voluminous owner's manuals to understand the various controls available and learn how to operate them. Naturally, different drivers have different preferences and this can result in a lengthy process of changing settings each time a different driver enters the vehicle. Furthermore, the increased complexity of driver controls is a distraction to the driver and negatively affects traffic safety.

Efforts have been made to simplify the driver/vehicle interface. One such effort is the "iDrive" system introduced by BMW. This system employs a video display and a driver-operated "joystick" to replace many of the individual controls. The system is reported to control more than seven hundred functions. While the system succeeds in eliminating much of the dashboard clutter, it results in as much, if not more, driver distraction than with conventional controls.

Another effort to simplify the driver/vehicle interface (and one that is employed in conjunction with BMW's "iDrive" system) is voice recognition. The vehicle is programmed to learn and respond to certain spoken commands. However, voice recognition technology is still in its infancy and spoken commands are not consistently understood, especially in a typically noisy vehicle environment.

2

There remains a need for a system and method of interfacing with the myriad of controllable features in a modern automobile without distracting the driver when actually operating the automobile.

SUMMARY OF THE INVENTION

The present invention provides methods and apparatus for setting preferences and other parameters of a motor vehicle.

In certain embodiments of the invention, a user initiates a connection to an interactive site on a global computer network. The site hosts a graphical user interface with which preferences and other parameters of a motor vehicle may be set by the user. In some embodiments, set-up data for the motor vehicle may be transferred directly to the motor vehicle from the interactive site. In other embodiments, set-up data for the motor vehicle are transferred from the user's computer to a transfer device where it is temporarily stored. The transfer device, which may comprise a key for operating the motor vehicle, is then used to program the features of the motor vehicle.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a functional block diagram of an embodiment of the invention wherein a motor vehicle receives data from a local computer via a transfer device.

FIG. 2 is a functional block diagram of another embodiment of the invention wherein a motor vehicle receives data directly from an interactive site server.

FIG. 3 illustrates a graphical user interface for setting programmable features of a vehicle entertainment system.

FIG. 4 illustrates a graphical user interface for setting programmable features of a vehicle climate control system.

FIG. 5 illustrates a graphical user interface for customizing a vehicle control/display panel.

DETAILED DESCRIPTION OF THE INVENTION

In the following description, for purposes of explanation and not limitation, specific details are set forth in order to provide a thorough understanding of the present invention. However, it will be apparent to one skilled in the art that the present invention may be practiced in other embodiments that depart from these specific details. In other instances, detailed descriptions of well-known methods and devices are omitted so as to not obscure the description of the present invention with unnecessary detail.

A first embodiment of the invention is illustrated in FIG. 1. A motor vehicle receives set-up data from a local computer 12 via a transfer device 16. In a typical application, local computer 12 is a general purpose personal computer of the type now widely found in homes and offices. Details of computer 12 are not particularly relevant to the invention and are not shown. Typically, computer 12 will comprise, at a minimum, a processing unit, a keyboard and a display. Additional input devices, such as a mouse or other pointing device, and output devices, such as a printer, may also be included as part of computer 12.

Local computer 12 is coupled to a remote interactive site server 14 by a telecommunications link. In a typical embodiment of the invention, interactive site server 14 would be accessible via the World Wide Web. Other appropriate means for connecting computer 12 to server 14 could also be employed. Server 14 contains programming for interactively setting the programmable features of motor vehicle 10.

Preferably, server 14 presents to the owner of motor vehicle 10, via computer 12, a graphical user interface that is tailored to motor vehicle 10 and the programmable features thereof.

Transfer device 16 receives the programming data from local computer 12 by a wired or wireless connection to computer 12. A wired connection may comprise a serial bus configured in accordance with any of the appropriate industry standards, such as, for example, universal serial bus (USB), "FireWire", etc. Wireless connections may comprise optical, audio, magnetic, inductive, infrared or radio frequency coupling. One wireless communication protocol suitable for use with the present invention is the "Bluetooth" protocol, which is now becoming widely installed in home computer systems. Another wireless communication protocol that may be employed with the present invention for transferring data from local computer 12 to transfer device 16 is the video data transfer protocol described in pending application Ser. No. 10/155,531 and its predecessor applications. Transfer device 16 also communicates with motor vehicle 10 by means of a wired or wireless connection with a suitable protocol, such as any of those mentioned above.

Communications between local computer 12 and transfer device 16 and between the transfer device and motor vehicle 10 may be either one-way (namely, from the home computer to the transfer device and then to the vehicle) or two-way. However, significant advantages are realized when utilizing two-way communication. Two-way communication allows "synchronization" of the motor vehicle with a "virtual" motor vehicle maintained at the site server 14. Many of the features and settings of the motor vehicle can be controlled directly by the driver while in the motor vehicle. By periodically returning transfer device 16 to computer 12 and reestablishing a connection with server 14, the virtual motor vehicle can be updated with any changes in the settings of the real motor vehicle.

Another advantage of two-way communications is that it may be used to facilitate remote troubleshooting of the motor vehicle. Data from the motor vehicle may be transferred to computer 12, and from there to the motor vehicle manufacturer, dealer or other support facility via an Internet or email connection. Analysis of the data can then be used to issue appropriate repair orders. In some cases, repairs may be effectuated by downloading corrective software or firmware in the same manner that feature set-up is accomplished.

As illustrated in FIG. 1, transfer device 16 may be configured as a device with a USB or other serial bus connection 17 and an internal flash memory or other suitable non-volatile memory device. Such a transfer device is easily portable and may be conveniently carried on a key chain. Transfer device 16 may be simply plugged into a cooperating serial port on local computer 12. In this regard, most home computers are now equipped with easily accessible USB ports. Motor vehicle 10 may also have a cooperating serial port on the dash or console. Operation of motor vehicle 10 may be enabled with a conventional key. Alternatively, however, transfer device 16 may itself function as a key to enable operation of the motor vehicle. In either case, it is preferred that each driver of the motor vehicle have his or her own transfer device so that the vehicle will be automatically configured to that driver's preferences whenever the driver inserts the transfer device into the receiving port.

Transfer device 16 may be configured in numerous other ways. For example, a recordable compact disk (CD) or digital video disk (DVD) could be employed as a transfer

device. In this case, set-up data would be written onto the CD or DVD at local computer 12 and the disk would then be loaded into a suitable drive in the motor vehicle. Such an approach is more suitable for one-way communication than two-way communication.

It is also possible to configure a system in which motor vehicle 10 receives set-up data directly from local computer 12 without a transfer device. This can be accomplished by establishing a telephonic connection with the motor vehicle. In this regard, motor vehicles are increasingly being equipped with built-in telecommunications capabilities for implementing a variety of so called "telematic" functions. The communication path might also involve a combination of wired and wireless protocols. For example, local computer 12 may have a wireless link to an in-home transceiver, which is connected to a remote transceiver in the motor vehicle's garage or other parking area by a wired connection. The wired connection may comprise a data communication bus or a communication signal may be carried as a modulation on the household wiring. The garage transceiver then communicates with the motor vehicle using a wireless protocol.

FIG. 2 illustrates an alternative embodiment of the invention. In this case, set-up data for motor vehicle 10 is received directly from server 14 rather than through local computer 12. From the motor vehicle owner's perspective, the preference setting interface is otherwise identical to the previously described embodiments. Site server 14 may establish a direct telephonic or other suitable communication connection with motor vehicle 10.

The graphical user interface with which a user sets the functions and preferences of the motor vehicle may be highly sophisticated. The options that may be provided are virtually limitless. The following lists some of the functions that could be implemented using the present invention. Many of these allow a driver to personalize his or her car much as cell phones are personalized with distinctive cases, ring tones, greeting messages, etc.

Interior

Entertainment

Radio

Driver enters ZIP code and finds all local radio stations.

Driver may select by station frequency, ID, genre (jazz, pop, talk, etc.), or signal strength, and assign to presets on dash or on touch display.

Optionally, set up to scan among chosen stations until the one desired is tuned. Say "OK" and the radio will stay on the currently tuned station. Choose the scan delay time (3 sec, 5 sec, etc.)

Select option to seek out the same genre of station driver was listening to in a new area whenever signal strength falls below a preset level.

Specify favorite stations and/or programs and the audio system will switch at the designated day/time, e.g., on weekdays: NPR in the morning until 9:00, classical radio station until 2:00, sports station until 5:00, news, weather, and traffic until 6:30. Choose different schedule line-up for weekends.

If not in the car when favorite radio program starts, have the system record it (time-shift radio). Play back with the ability to pause, rewind, 'F', skip, preserve segments, etc.

CD Changer
 Driver places CDs for use in car into CD drive of home computer. Application program reads the CDs and creates a play list that is transferred to car.
 Specify favorite songs to play in a desired order or at random. 5
 Play sources at random alternating or predetermined way with preferred radio stations and/or programs and/or MP3 tunes.
 MP3 Tunes 10
 Use transfer device to move MP3 files to the car.
 Create play list as above.
 All audio sources can be programmed to play in an almost infinite way based on time, day of the week or programmed "function button." 15
 Sound & Source Management
 Mix and match radio, CDs, MP3s by time of day, randomly, etc.
 Set audio level for radio, CD and/or MP3 player to be used when car is started. 20
 Set a "default" source.
 Select whether play continues with the same source at the same volume when car is started in the morning, or switches to a different predetermined source at a different volume (e.g., system automatically defaults to AM traffic source if it's between 7:00 and 8:00 AM). 25
 Optimize sound for driver or for cabin.
 Set equalization manually or for a specific genre of music—i.e., whenever radio is on jazz station, system defaults to driver's "jazz" EQ. 30
 RESET to factory defaults.
 Reminders
 Driver may type in any manner of reminders or notes to be read back by voice synthesis at the push of a button at any set time or interval.
 Reminders can be played back in the car or from the home computer.
 Climate Control
 Filter
 Automatic or manual. 40
 Recirculate air, or don't, or mix in a selectable ratio.
 Fan
 Set preferred default setting for fan speed using slider from MIN to MAX. On MIN setting fan blows gently even if a large cabin-temperature change is required. On MAX setting fan blows at full speed until desired cabin temp is achieved. Slider allows for any speed in between. 45
 Comfort Index
 Select relative weights of IR sensor, outside and inside temps to optimize comfort for the driver (it can be cool outside but the IR detector sees lots of IR, so it thinks it's summer and the air conditioner comes on). Include humidity in the relative comfort index as below.
 Timed Temperature Preset
 High and low temperature thresholds can be set and the car can automatically bring cabin temperature to within a selected comfort level at a designated time of day. For example, the system may be programmed to start 5 minutes before a regularly scheduled departure time. As a safety precaution, the system may automatically shut down after running ten minutes without user intervention. 60
 Seat Warmer 65
 Program the seat warmer to activate at a designated time of day or as soon as car is unlocked.

Program a button on the dash to turn on the seat warmer for five minutes every 30 minutes after the car is shut off.
 Circuit monitors battery current and shuts down seat warmers when appropriate.
 Temperature
 Individual user preferences are easily set up and transferred using multiple transfer devices (keys/fobs).
 Select "Alfresco" mode and system automatically boosts A/C or heating output as needed when convertible top is lowered.
 Different settings for the front passenger seat can be selected depending on whether or not the seat is occupied.
 Humidity 15
 Select desired relative humidity with slider control or RESET to factory defaults.
 Navigation
 Address Entry 20
 Enter addresses using computer keyboard or by dragging and dropping from Web site or address book.
 While driving, a designated cockpit button can be pressed to store the current location, which can then be uploaded to the home computer and Web site.
 Address Library
 Enter or select a new or saved address on the home computer; elect to have this loaded as the destination address when car starts.
 Trip Planning 30
 Book hotel rooms (through third-party Web site) by clicking on a map for the final destination and on intermediate stops if appropriate.
 Select points of interest within a selected range along the route. 35
 Purchase tickets or passes or make reservations for events or movies or restaurants.
 Receive notification when its getting close to time to refill the tank at an upcoming preferred gas station(s).
 Route Planning 40
 Select addresses from address library and obtain most efficient route plan given the time of day, distances and known traffic conditions.
 Mobile Phone 45
 Phone Book
 Selected numbers (and addresses) from computer phone book are available to the phone (and Navigation) system.
 Voice Dialing 50
 Activate voice dialing on selected phone numbers from phone book.
 Phone Voice Commands
 Select key words that will activate voice-dialing functions (call, end, mute, switch). 55
 Personalization
 Horn Effects
 Select synthesized horn sounds from a list.
 Select horn response mode, e.g., pushing the horn switch and holding it in sounds the warning horn sound as normal; one quick tap sounds a different horn sound ("friendly" light-is-green horn); two quick taps sounds a brief personalized "tune", e.g., driver's signature "I'm home" tune. 60
 Interior Lighting Effects
 Select the color and intensity of dial/dash backlighting.

- Selected preferred cabin "atmosphere" when door is opened (dim cabin lighting, full-on bright, others).
- Link lights to doors, e.g., opening only driver's door turns on only left-front map light; when rear doors are opened rear lights also activate.
- Sound Effects
- Select the sound the turn indicator makes.
- Select a sound if the gas cap is not on or seated.
- Select a sound when motorized seats are being adjusted.
- Personalized seat-belt warning.
- Select an alert sound when driving above a preset speed.
- Select keys-in-ignition reminder tone.
- Visual Effects
- Add a photo or image to the LCD.
- Screensaver for LCD when vehicle is in Park.
- Voice Commands
- Select any number of short voice commands to accomplish listed specific in-cabin tasks: "Open sunroof," "Open my window.," "High beams.," etc.
- In-Vehicle Interface
- Systems & Controls
- Customize the function of "function buttons" to control selected functions of any system in the car.
- In cars with touch screen LCDs, select from among the components of the systems to be displayed and/or controlled from the LCD.
- Buttons
- Program any button in the cabin to do just about anything.

Vehicle

Safety

- Window & Sunroof Control
- Set each window so the occupant of the adjoining seat can only lower the window to a selected level.
- Lock window controls at selected seats.
- Set a button in the cockpit to lower a preset amount/close all or selected windows and open/close the sunroof.
- Set the sunroof to partially open when the inside temperature exceeds a predetermined temperature. Also have the fan come on at the desired speed for selectable intervals.
- Seatbelts
- Disable engine start if all or selected seats with passengers don't have seat belts fastened.
- Speed Governor
- Sound a selected warning sound when the car exceeds a specified speed.
- Make the warning louder the higher above the preset speed the car goes
- Limit the maximum speed of the car.
- Limit the maximum rate of acceleration.
- Vehicle Tracking
- Using GPS or mobile phone, create a log of where the car has been, when and for how long. Also track how hard the car was driven.
- Set up real-time tracking of the vehicle
- Accident
- Set some or all of interior lights to flash and the horn to sound.
- Enable transmission of GPS coordinates.

Security

- Door Locks
- Determine if and at what speed all or selected doors lock.

- Set certain doors to unlock only after one or both of the front doors have been opened for a selected period of time.
- Enable "lock doors" voice command.
- Window Control
- (see Safety above)
- Enable voice command for "windows up."
- Panic Alert
- Function button or voice command that locks all doors, rolls up windows, flashes lights, sounds an emergency "siren".
- Enable "panic button" to call one or more predetermined phone numbers and deliver and repeat a voice synthesized message when the call is answered.
- Add vehicle location to the message.
- Door Access
- Disable opening one or more doors from the outside unless one or more specific doors are opened from the inside.
- Lighting
- Select how long and which of the external and internal lights go on after unlock, all doors closed, engine start, vehicle speed.
- Alarms
- Program security codes.
- Select functions for key-fob panic button (e.g., flash lights, activate "I need help!" synthesized-voice horn).
- Performance
- Suspension Control
- Adjust the ride of computerized suspension from sport to luxury or anywhere in between.
- Engine Control
- Select within a range between economy and performance
- Transmission Control
- Within factory-set ranges, determine shift aggressiveness (e.g., allow max-rpm shifts or always shift as early as possible for best economy).
- Steering
- Adjust the feel of steering from stiffer to lighter using an infinitely variable slider.
- Winter
- Click box to optimize car for poor-weather (e.g., transmission starts in second gear, max traction control intervention, ABS fires at minimum lock detection, etc.).
- Tuning
- Sport Mode
- Set up one-button high-performance profile (e.g., low-economy, max power, max transmission aggressiveness, stiffest shocks).
- Turbo Boost
- Within factory range, adjust turbo pressure to favor economy, sport mode or point in between.
- Handling
- Select spring/shock rates, select steering ratio, select traction control response, etc.
- Emergency Information
- Contacts
- In case of emergency or accident, list numbers to contact to speak to hands-free or with a pre-entered voice synthesized call.
- In event of airbag deployment, selected contact name and number to flash on LCD to assist rescue personnel in case of driver incapacitation.

Other Notifications
 Transmit vital information to insurance company.
 Emergency Aid
 One button summons list and numbers for nearest hospitals, police, fire, pharmacy, etc. based on GPS location—plus preset list of needed phone numbers (friends, family doctor, school, etc).

Information & Service

Trip Logs

Daily Mileage Logs
 Record and display distances traveled.
 Record routes traveled.
 Record and display fuel consumed.
 Calculate a “cost per mile” of operation, including tire wear, gas mileage, lease and insurance cost, etc.
 Selectively clear various logs.
 Set additional or alternative criteria for “measuring” various parameters of daily use.

Trip Mileage Logs

On trips of a preset duration in hours, days, miles or upon pushing a “start trip” function button, record distances between stops, total trip mileage, average speed gas mileage for the entire trip or trip segments, etc.

Cumulative Data

Record all possible or selected data from a master reset done at the dealer upon delivery of the car.

Guest Logs

Record trip information (route points, speeds, time) from selected start to stop points.

Service & Diagnostics

Last Service

At what mileage.
 On what day and time.
 At what dealer.
 At what cost.
 What was done.

Next Service

Anticipated date based on how the car is being driven, etc.
 What will be serviced at the next service.
 What bugs in the car need to be fixed.
 What will it cost.
 How much time should it take.

Request email within predetermined period before the service should be done as a reminder.

Request phone contact from nearest or selected dealer to set an appointment.

Request dealer assistance in getting the car to service and back.

Diagnostics

Send diagnostic codes to manufacturer and dealer.
 Receive software and firmware-based fixes.

Firmware & Software Updates

Receive periodic updates to operating systems, that enable new functionality.

Interactive User’s Manual

Virtual Test Drive

Animate various controls on the home computer screen.

Learn & Setup

Interactively learn the various options and settings available in the car.

Automatic Tutor

Based on data collected from vehicle, user is prompted to learn about controls/systems that have not yet been set

(e.g., “You have not yet set up your Address Book. Would you like assistance?”).

Weather and Driving Conditions

Forecast

Obtain weather forecast for travel area.

Road Conditions

Obtain reports of road conditions, accidents, clogged traffic, roadwork being conducted, etc.

Safety Kit

Obtain list of suggested bring-along items based on weather forecast and planned travel route (snow chains, ice scraper, sunscreen, full tank-few filling stations on the way, etc).

Contact Vehicle Manufacturer

FAQ

Access a searchable database of FAQs

Help

Access a searchable “help” database.

Email the service center with specific questions and issues.

Vehicle-specific Information

Send vehicle data to manufacturer. Receive feedback and/or contact information after data has been received and analyzed.

Nearest Dealerships

Access list with maps of closest dealers, etc.

Customer Relations

Subscribe to newsletter.

Subscribe to other periodic news about vehicle and/or related interests.

Request notification about new model introductions.

Elect to receive periodic questionnaires relating to satisfaction, etc.

Request results of surveys about quality, customer satisfaction, etc.

Request notification about special offers and events.

Shop

Driving Accessories

Order custom car mats, spill-proof coffee mugs, first-aid kits, CD carriers, seat covers, car covers, etc.

Logo Wear

Order jackets, shirts, luggage, gloves, sunglasses, hats, golf bags, etc.

Performance Accessories

Order optional wheels, gold-trim kits, trailer hitches, aero body kits, roof racks, bicycle carriers, audio/visual equipment, etc.

Events

Order tickets to manufacturer-sponsored races, motor shows, sporting events, social gatherings, etc.

FIG. 3 illustrates a portion of a graphical user interface that may be employed with the present invention to set programmable features of a motor vehicle’s entertainment system. The interface utilizes pull-down menus, data entry windows, buttons, sliders, etc., which are readily implemented by persons proficient in website design. The programmable features shown in FIG. 3 are merely illustrative of those that can be implemented. The particular features that are made available on the graphical user interface would be specified by the motor vehicle manufacturer and would be constrained by the hardware and software specifications of the particular vehicle.

FIG. 4 illustrates a portion of a graphical user interface that may be employed with the present invention to set programmable features of a motor vehicle's climate control system.

Use of the present invention facilitates customized driver controls and displays. For example, touch screen LCD or similar display panels are now used in many automobiles. Using a graphical user interface, a driver can design a customized set of controls for operating features of interest to that driver. One driver may wish to have certain radio selections readily available, whereas another driver may wish to have available a selection of destinations for the navigation system. These preferences are communicated via the transfer device as described above. Controls that are customized in this manner are not limited to touch screen selections. By the same process, driver defined functions may be assigned to buttons, dials and other mechanical controls as well to create individualized "function keys." Likewise, displays available to the driver may also be customized.

FIG. 5 illustrates a portion of a graphical user interface for creating a customized control/display panel. The top portion of the interface provides a menu of controls and displays that may be dragged and dropped onto a graphic representation of the vehicle's control display panel in the bottom portion of the interface. In this manner, a user may construct a hierarchy of control/display panels for various systems of the vehicle and/or driving situations. A "home" panel may be configured with controls and displays that are most used by the driver. Subsidiary panels, accessible from the "home" panel, may be created in whatever configurations the driver desires. Selections available to the driver when creating customized panels may include background colors and/or patterns. The panel may be programmed with "wallpaper" and "screensavers", much as computer displays are customized by their users.

It will be recognized that the above-described invention may be embodied in other specific forms without departing from the spirit or essential characteristics of the disclosure. Thus, it is understood that the invention is not to be limited by the foregoing illustrative details, but rather is to be defined by the appended claims.

What is claimed is:

1. A method of controlling an automobile sound system comprising:
 - providing a server on a global computer network with a graphical user interface tailored to an automobile sound system and the programmable features thereof;
 - accessing the server with a user's computer and operating the graphical user interface to program a selected automobile sound system function;

transferring data representative of the selected automobile sound system function to an automobile sound system remote from the user's computer.

2. The method of claim 1 wherein transferring data representative of the selected automobile sound system function comprises transferring the data to a transfer device and then transferring the data from the transfer device to the automobile sound system.

3. The method of claim 1 wherein transferring data representative of the selected automobile sound system function comprises transferring the data from the server to the automobile sound system.

4. The method of claim 3 wherein the data is transferred from the server to the automobile sound system via telephonic communications.

5. The method of claim 1 wherein transferring data representative of the selected automobile sound system function comprises transferring the data from the user's computer directly to the automobile sound system.

6. A method of controlling an automobile heating, ventilating and air conditioning (HVAC) system comprising:

- providing a server on a global computer network with a graphical user interface tailored to an automobile HVAC system and the programmable features thereof;
- accessing the server with a user's computer and operating the graphical user interface to program a selected automobile HVAC system function;

transferring data representative of the selected automobile HVAC system function to an automobile HVAC system remote from the user's computer.

7. The method of claim 6 wherein transferring data representative of the selected automobile HVAC system function comprises transferring the data to a transfer device and then transferring the data from the transfer device to the automobile HVAC system.

8. The method of claim 6 wherein transferring data representative of the selected automobile HVAC system function comprises transferring the data from the server to the automobile HVAC system.

9. The method of claim 8 wherein the data is transferred from the server to the automobile HVAC system via telephonic communications.

10. The method of claim 6 wherein transferring data representative of the selected automobile HVAC system function comprises transferring the data from the user's computer directly to the automobile HVAC system.

* * * * *

Exhibit B



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VIA E-MAIL AND FEDEX

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April 30, 2013

Jonathan Butler
Associate General Counsel
Tesla
3500 Deer Creek Road
Palo Alto, CA 94304

RE: pointSET Patent Portfolio

Dear Mr. Butler:

We represent pointSET Corporation, which owns 6 issued patents and 3 pending applications that are generally directed to the field of remotely programming appliances (including automobiles) using a computer or smartphone. The inventions were developed by pointSET founder Jerry Iggulden, the named inventor on more than 40 U.S. patents and more than 100 world-wide.

Since last year, there have been a number of developments with respect to the pointSET patent portfolio. First, the Federal Circuit issued a decision in *Akamai Tech. v. Limelight Networks* (Fed. Cir. 2012). In the *Akamai* opinion, the Federal Circuit expressly overruled its previous *Paymentech* opinion and held “that all the steps of a claimed method must be performed in order to find induced infringement, but that it is not necessary to prove that all the steps were committed by a single entity.” Under *Akamai*, a party may be liable for inducing infringement where the accused infringer: (1) knew of patent; (2) induced performance of the steps of the method; and (3) those steps were actually performed. Many of pointSET’s issued patent claims arguably involved “divided infringement,” which may not have been actionable under *Paymentech*, but are under *Akamai*. In light of the decision, we have prepared the enclosed claim chart demonstrating how Tesla induces infringement of claim 6 of United States Patent No. 7,379,541. The ‘541 patent is specifically directed to the automotive sector and control of an automobile’s HVAC system using a remote Internet site.

Second, the world’s largest automotive company, **Toyota Motor Corporation** has recently entered into a settlement agreement regarding certain rights to the pointSET’s portfolio. The Toyota agreement demonstrates the importance of the inventions to companies offering the ability to program features of an automobile remotely using a smartphone or computer.

Third, one of the inventors of the pointSET patents (and the President of the company), Jerry Iggulden has passed away. Jerry was the main day-to-day driving force at pointSET, and his passing has forced others at the company to assume Jerry’s responsibilities. This has resulted in a fresh approach to the monetization of pointSET’s assets and a mandate to us, as representatives of the company, to explore licensing on an accelerated timetable.



Previously, pointSET was seeking an upfront payment and a per-unit running royalty. pointSET reserves the right to return to such licensing, but for a limited time pointSET is offering a one-time, fully-paid licensing flat fee of \$500,000 for a non-exclusive, company-wide right use pointSET's technology. This one-time fee will cover both past and future use of the technology through the expiration of the pointSET patent portfolio.

As mentioned above, pointSET's new management is interested in completing license agreements as rapidly as possible. For a limited time, therefore, the company is offering significant discounts for those companies that agree to enter a license with pointSET promptly, as follows:

License Entered & Payment Made	License Fee
Within 60 days of this letter	\$150,000
After 60 but less than 90 days this letter	\$300,000
More than 90 days after this letter	\$500,000

pointSET is adhering to the listed time frames, so please contact me via phone or email listed below at your earliest convenience should you wish to license the technology claimed by the portfolio.

If Tesla would prefer not to pay for the use of the pointSET technology, we are offering the opportunity to discontinue Tesla's use of the technology within sixty days of the date of this letter. Should Tesla remove the claimed technology within sixty days, we will not seek damages for Tesla's past use of the technology. If you would prefer this option, please notify me within the next sixty days that you have removed the technology claimed in the portfolio, including effective date of removal.

Very truly yours,

Nicholas Dudziak

Enclosures

Notice

pointSET Corporation reserves all rights with regard to its patents, including: (1) the right to seek damages going back as far as the last six years, assuming your company started to make or use pointSET's patented technology before that time; (2) the right to change its royalty rates at any time; (3) the right to change this licensing program at any time without notice, including variance to conform to applicable laws; and (4) the right to seek damages higher than the rates set forth in this letter based on your license agreements. You should not rely on any communication or lack of communication from Global IP Law Group or pointSET as a relinquishment of any of pointSET's rights. This letter is being sent pursuant to Rule 408, Federal Rules of Evidence.

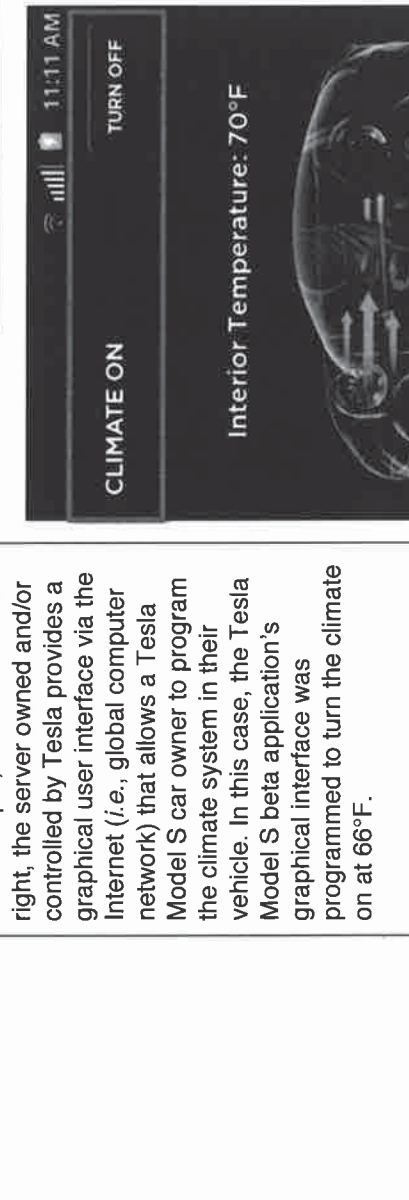
Exhibit C

Based on information presently available (draft/subject to revision)
 Claim preamble may not serve as a limitation.


U.S. Patent No. 7,379,541: Tesla (Model S Beta app)

Claim 6	Analysis	Select Evidence
<p>A method of controlling an automobile heating, ventilating and air conditioning (HVAC) system comprising:</p>	<p>Tesla provides a method for car owners to control the HVAC system of their vehicle through the use of the Tesla Model S Beta app.</p>	<div data-bbox="342 905 613 1262"> </div> <div data-bbox="342 218 613 898"> </div> <p data-bbox="643 982 662 1255">Users who viewed this also viewed</p> <div data-bbox="683 1163 760 1255"> <p data-bbox="683 1020 703 1150">GalaxSim Unlock</p> <p data-bbox="711 1087 727 1150">SPOCKY</p> <p data-bbox="727 1020 743 1150">★★★★★ (3,060)</p> <p data-bbox="748 1115 764 1150">Free</p> </div> <p data-bbox="643 758 670 890">Description</p> <p data-bbox="691 279 732 890">The Tesla Model S Beta app puts Model S owners in direct communication with their cars anytime, anywhere. With this app, owners can:</p> <ul data-bbox="760 464 805 890" style="list-style-type: none"> - Check charging progress in real time and start or stop charge - Heat or cool Model S before driving — even if it's in a garage <p data-bbox="805 321 833 1262">Source: https://play.google.com/store/apps/details?id=com.teslamotors.tesla&hl=en</p> <p data-bbox="867 856 1463 1262">One of the great features included in every Model S is the ability to add functionality and make changes to the vehicle via remote software updates. We recently uploaded a new software version that fixed a few minor door handle and touchscreen behaviors that customers contacted us about. We recommend all customers proceed with their 4.2 update because it not only fixes a few minor bugs, it also activates many new features and provides access to something a lot of people have been looking forward to... the Android and iPhone apps. Both are now available for download! With these apps installed on your smartphone you can interact with your Model S to monitor charging, precondition your car on very hot or cold days, and even honk the horn to find your Model S in a crowded parking lot. Install the app and let the fun begin!</p> <p data-bbox="1482 569 1510 1262">Source: http://www.teslamotors.com/blog/inside-tesla-020513</p> <div data-bbox="906 464 1354 821"> </div>

Based on information presently available (draft/subject to revision)
 Claim preamble may not serve as a limitation.

Claim 6	Analysis	Select Evidence
<p>providing a server on a global computer network with a graphical user interface tailored to an automobile HVAC system and the programmable features thereof;</p> <p>accessing the server with a user's computer and operating the graphical user interface to program a selected automobile HVAC system function;</p>	<p>Tesla owns and/or controls a server on a global computer network (i.e., the Internet) providing a graphical user interface tailored to an automobile HVAC system and the programmable features thereof.</p> <p>For example, as shown on the right, the server owned and/or controlled by Tesla provides a graphical user interface via the Internet (i.e., global computer network) that allows a Tesla Model S car owner to program the climate system in their vehicle. In this case, the Tesla Model S beta application's graphical interface was programmed to turn the climate on at 66°F.</p> <p>Tesla makes the functionality of its server available for car owners to access with their smartphones. Accordingly, Tesla Model S car owners access Tesla's server through their smartphone (user computer) to program a selected automobile HVAC system function (e.g. turning the climate on or off) by using the graphical user interface of the application.</p>	<p>SOFTWARE UPDATES</p> <p>Model S updates its software wirelessly, providing new features throughout your term of ownership. <u>The first time you enter Model S after an update is made available, a scheduling window displays on the touchscreen.</u></p> <p>IMPORTANT! A software update takes up to two hours to complete, and Model S must be in Park (P) when the new software is installed.</p> <p>Source: http://www.teslamotors.com/sites/default/files/blog_attachments/ms_owners_guide.pdf</p>  <p>Source: https://play.google.com/store/apps/details?id=com.teslamotors.tesla&hl=en</p>

Based on information presently available (draft/subject to revision)
 Claim preamble may not serve as a limitation.

Claim 6	Analysis	Select Evidence
<p>transferring data representative of the selected automobile HVAC system function to an automobile HVAC system remote from the user's computer.</p>	<p>The Tesla Model S beta application is granted "full network access" and uses the Internet "to interact with [the] Model S" (i.e., transfer data) from the user's Internet enabled smartphone to the vehicle.</p> <p>For example, a Tesla Model S car owner's phone will "interact with [the] Model S" (i.e., transfer data from their smartphone to the server to their Tesla Model S car) and remotely control their vehicle through the Tesla Model S beta app, which transfers HVAC function data (turn the climate control on or off) from their smartphone to the cars HVAC system.</p>	<p>NETWORK COMMUNICATION</p> <p>FULL NETWORK ACCESS</p> <p>Allows the app to create network sockets and use custom network protocols. The browser and other applications provide means to send data to the internet, so this permission is not required to send data to the internet.</p> <p>Source: https://play.google.com/store/apps/details?id=com.teslamotors.tesla&hl=en</p>  <p>One of the great features included in every Model S is the ability to add functionality and make changes to the vehicle via remote software updates. We recently uploaded a new software version that fixed a few minor door handle and touchscreen behaviors that customers contacted us about. We recommend all customers proceed with their 4.2 update because it not only fixes a few minor bugs, it also activates many new features and provides access to something a lot of people have been looking forward to... the Android and iPhone apps. Both are now available for download! With these apps installed on your smartphone you can interact with your Model S to monitor charging, precondition your car on very hot or cold days, and even honk the horn to find your Model S in a crowded parking lot. Install the app and let the fun begin!</p> <p>Source: http://www.teslamotors.com/blog/inside-tesla-020513</p>