

EXHIBIT C2 - U.S. PATENT 9,082,239

Infringement Claim Chart

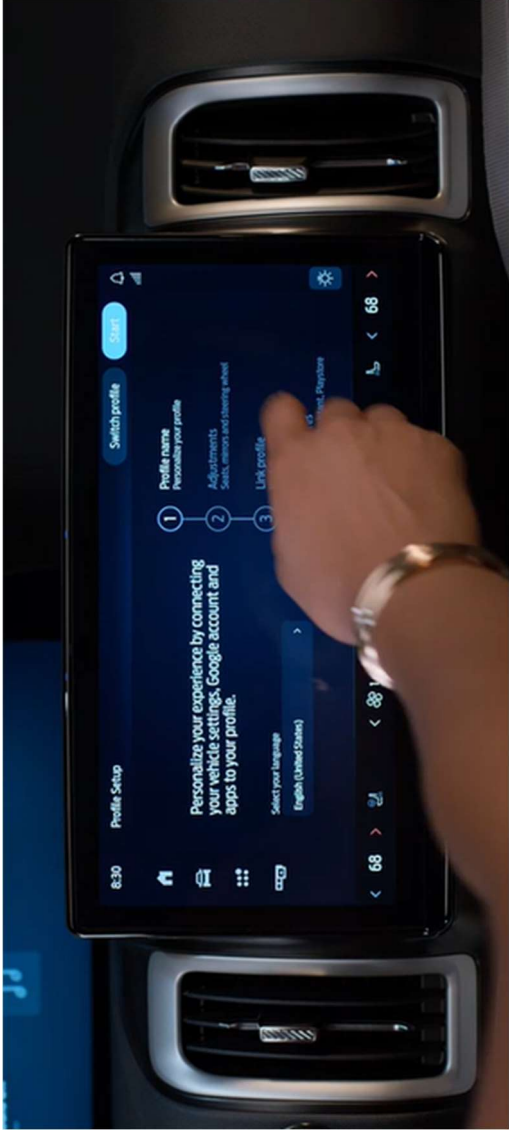
Upon information and belief, all '239A Accused Instrumentalities use the same or similar structures to implement the features described in the following chart in materially the same way, unless expressly stated otherwise. Accordingly, the described structures, features, and corresponding infringement contentions are representative of infringement by all '239A Accused Instrumentalities, including Accused Instrumentalities of the Ford and Lincoln brands. In addition, the exemplary evidence cited herein, while representative of all '239A Accused Instrumentalities, is non-exhaustive, based on publicly available information, and provided for illustrative purposes only. AutoConnect reserves the right to supplement or amend these contentions based on information obtained during discovery, and to rely on additional evidence consistent with the infringement theories set forth in its infringement contentions.

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Row	Claim 1	
1A	A method, comprising: maintaining, by a microprocessor executable profile identification module, a persona of a selected vehicle occupant, wherein the persona comprises one or more of bioinformatics, medical information, driving history, personal information, private information, travel information, and Internet browsing history and/or browsed content. For example, the profile identification module of '239A Accused Instrumentalities maintains a persona of a vehicle occupant that may include, for example, medical information (<i>e.g.</i> , information from connected health and fitness devices and services), personal information (<i>e.g.</i> , name, Gmail address, home address, work address, personal contacts, calendar appointments, business contacts, payment information, preferences), private information (<i>e.g.</i> , user presence information, Google Account access credentials), driving history, Internet browsing history and/or browsed content. ²	The '239A Accused Instrumentalities perform the method set forth in Rows 1A-1D. The '239A Accused Instrumentalities each include a microprocessor' executable profile identification module that maintains a persona of a vehicle occupant, wherein the persona comprises one or more of bioinformatics, medical information, driving history, personal information, private information, travel information, and Internet browsing history and/or browsed content. For example, the profile identification module of '239A Accused Instrumentalities maintains a persona of a vehicle occupant that may include, for example, medical information (<i>e.g.</i> , information from connected health and fitness devices and services), personal information (<i>e.g.</i> , name, Gmail address, home address, work address, personal contacts, calendar appointments, business contacts, payment information, preferences), private information (<i>e.g.</i> , user presence information, Google Account access credentials), driving history, Internet browsing history and/or browsed content. ²

¹ Any reference to a "microprocessor" or "processor" in these contentions includes one or more processors operating individually or in combination to perform the specified claim limitation.

² See, *e.g.*, <https://built-in.google/cars/>; <https://corporate.ford.com/articles/research-and-innovation/digital-experience/>; <https://www.ford.com/technology/ford-digital-experience/>; <https://www.lincoln.com/technology/lincoln-digital-experience/>; <https://www.ford.com/support/how-tos/ford-technology/ford-digital-experience/ford-digital-experience-profile-setup/>; [https://www.nickmayerfordeast.com/blogs/6941/the-new-android-powered-infotainment-system-in-the-2025-ford-explorer-in-cleveland-heights/](https://www.nickmayerfordeast.com/blogs/6941/the-new-android-powered-infotainment-system-in-the-2025-ford-explorer-in-cleveland-heights;);

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and Internet browsing history and/or browsed content;	
1B determining, by a microprocessor executable vehicle control system, vehicle-related information, wherein vehicle related information comprises one or more of vehicle context, state, external surroundings, location, past, current, and/or intended path	The '239A Accused Instrumentalities contain a microprocessor executable vehicle control system. The microprocessor executable vehicle control system determines vehicle-related information, wherein vehicle-related information comprises one or more of vehicle context, state, external surroundings, location, past, current, and/or intended path of travel, waypoint, and destination. For example, the vehicle control system of the '239A Accused Instrumentalities determines vehicle-

<https://www.youtube.com/watch?v=95w2mV4KJ9U>; <https://www.youtube.com/watch?v=losLcvfPcoY>; <https://support.google.com/built-in/answer/9905854>; <https://support.google.com/assistant/answer/11091015>; <https://support.google.com/built-in/answer/13827211>; <https://support.google.com/built-in/answer/9941814>; <https://support.google.com/My-Ad-Center-Help/answer/12155656>; <https://support.google.com/My-Ad-Center-Help/answer/12156161>.

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of travel, waypoint, and destination; and	related information such as vehicle state, location, past, current, and/or intended path of travel, destination, and external surroundings (e.g., traffic) in connection with navigation guidance. ³
1C based on the persona of the selected vehicle occupant and the vehicle-related information, determining, by the microprocessor executable vehicle control system, a type of assistance to provide the selected vehicle occupant. For example, the vehicle control system determines to proactively suggest actions, such as to return a missed incoming phone call, share an estimated arrival time with a contact, or suggest potential destinations and routes based on the occupant's habits and schedule. The system also determines to provide notifications regarding incoming messages and suggests that the user reply to the message, including pre-composed replies for selection by the occupant.⁴ As an additional example, a Ford website states "When connectivity is present, Google Maps automatically downloads maps based on current location and where the vehicle thinks users will go."⁵ Another Ford website states "This system also includes AI-driven suggestions based on driving habits, such as auto-adjusting temperature settings or recommending frequently visited destinations at certain times of day."⁶ In determining the type of assistance to provide, the vehicle control system utilizes vehicle-related information, such as its current location or intended destination, and the persona it	The microprocessor executable vehicle control system of the '239A Accused Instrumentalities determines, based on the occupant's persona and the vehicle-related information, a type of assistance to provide the vehicle occupant, the type of assistance not being based on or in response to a preceding request of the selected vehicle occupant. For example, the vehicle control system determines to proactively suggest actions, such as to return a missed incoming phone call, share an estimated arrival time with a contact, or suggest potential destinations and routes based on the occupant's habits and schedule. The system also determines to provide notifications regarding incoming messages and suggests that the user reply to the message, including pre-composed replies for selection by the occupant.⁴ As an additional example, a Ford website states "When connectivity is present, Google Maps automatically downloads maps based on current location and where the vehicle thinks users will go."⁵ Another Ford website states "This system also includes AI-driven suggestions based on driving habits, such as auto-adjusting temperature settings or recommending frequently visited destinations at certain times of day."⁶ In determining the type of assistance to provide, the vehicle control system utilizes vehicle-related information, such as its current location or intended destination, and the persona it

³ See, e.g., <https://www.youtube.com/watch?v=Qyfhfg39LbM>; <https://blog.google/products/android/android-auto-new-features-google-io-2023/>; <https://corporate.ford.com/articles/research-and-innovation/digital-experience/>; <https://www.ford.com/technology/ford-digital-experience-profile-setup/>;

⁴ See, e.g., <https://www.ford.com/support/how-tos/ford-technology/ford-digital-experience/ford-digital-experience-profile-setup/>; <https://www.youtube.com/watch?v=9x9WUSTve9k>; <https://blog.google/products/android/android-auto-new-features-google-io-2023/>; <https://support.google.com/assistant/answer/11091015>; <https://voicebot.ai/2023/01/13/new-android-auto-upgrades-google-assistant-with-suggestions-shortcuts-whatsapp-phone-calls/>; <https://www.youtube.com/watch?v=Qyfhfg39LbM>; <https://www.snydergm.com/google-built-in.htm>; <https://www.youtube.com/watch?v=LmO85JUqFz4>; <https://www.youtube.com/technology/ford-digital-experience/>;

⁵ See, e.g., <https://www.ford.com/technology/ford-digital-experience/>.

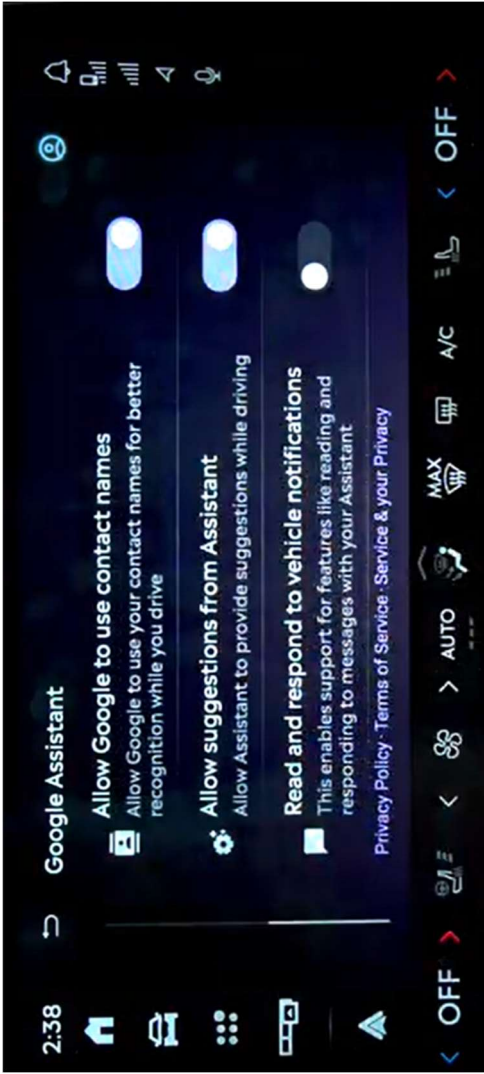
⁶ See, e.g., <https://www.nickmayerfordeast.com/blogs/6941/the-new-android-powered-infotainment-system-in-the-2025-ford-explorer-in-cleveland-heights#:~:text=Just%20say%20what%20you%20need,Schedule%20your%20test%20ride%20today>.

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	maintains for the selected vehicle occupant, such as contact information, calendar information, phone call history, information about frequent contacts and/or frequently visited locations. The assistance is initiated independently and is not based on a specific request made by the vehicle occupant at the time the assistance is offered.  <i>See also</i> Rows 1A and 1B.
1D performing, by the microprocessor executable vehicle control system, an action assisting the selected vehicle occupant, the action being one or more of providing a suggestion or recommendation to the selected vehicle occupant, providing a reminder to the selected vehicle occupant, adding an entry into the selected vehicle occupant's electronic calendar, providing a notification to the selected vehicle occupant regarding an incoming message, call or action of a person, and/or sending a message to a person at a waypoint or destination of the vehicle regarding an arrival time of the vehicle. For example, the vehicle control system may provide suggestions and recommendations of destinations or routes to the selected vehicle occupant, provide a reminder to the selected vehicle occupant, provide a notification to the selected vehicle	The microprocessor executable vehicle control system of the '239A Accused Instrumentalities performs an action assisting the selected vehicle occupant, the action being one or more of providing a suggestion or recommendation to the selected vehicle occupant, providing a reminder to the selected vehicle occupant, scheduling an activity involving the selected vehicle occupant, purchasing an item on line for the selected vehicle occupant, adding an entry into the selected vehicle occupant's electronic calendar, providing a notification to the selected vehicle occupant regarding an incoming message, call or action of a person, and/or sending a message to a person at a waypoint or destination of the vehicle regarding an arrival time of the vehicle. For example, the vehicle control system may provide suggestions and recommendations of destinations or routes to the selected vehicle occupant, provide a reminder to the selected vehicle occupant, provide a notification to the selected vehicle

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providing a notification to the selected vehicle occupant regarding an incoming message, call or action of a person, and/or sending a message to a person at a waypoint or destination of the vehicle regarding an arrival time of the vehicle.	occupant regarding an incoming message, call or action of a person, and/or suggest sending a message to a person at a waypoint or destination of the vehicle regarding an arrival time of the vehicle.⁷  <i>See also Row 1C.</i>
Row	Claim 2
2	The method of claim 1, wherein the vehicle-related information The '239A Accused Instrumentalities perform the method of claim 1 as described above.

⁷ See, e.g., <https://www.youtube.com/watch?v=9x9WUSTve9k>; <https://blog.google/products/android/android-auto-new-features-google-io-2023/>; <https://support.google.com/assistant/answer/9346386?hl=en>; <https://voicebot.ai/2023/01/13/new-android-auto-upgrades-google-assistant-with-suggestions-shortcuts-whatsapp-phone-calls/>; <https://www.youtube.com/watch?v=Qyfhfg39LbM>; <https://www.youtube.com/watch?v=LmO85JUqFz4>; <https://built-in.google/cars/>; <https://www.ford.com/technology/ford-digital-experience/>; <https://www.nickmayerfordeast.com/blogs/6941/the-new-android-powered-infotainment-system-in-the-2025-ford-explorer-in-cleveland-heights#:~:text=Just%20say%20what%20you%20need,Schedule%20your%20ride%20today>; <https://www.youtube.com/watch?v=FgECqxNrExg>.

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	comprises at least one of a current and/or future vehicle location and path of vehicle travel and wherein the action performed by the vehicle control system is providing a notification of an instant message, email, voice mail from, and/or missed phone call from, current activity of and/or location of a friend.	The vehicle-related information comprises at least one of a current and/or future vehicle location and path of vehicle travel and wherein the action performed by the vehicle control system is providing a notification of an instant message, email, voice mail from, and/or missed phone call from, current activity of and/or location of a friend. For example, in a YouTube video published by Android titled “New ways to stay connected with Android Auto,” a scenario is presented where a text message is received from a friend stating, “Hey, when will you arrive?” The display interface provides an actionable option associated with the message to “Share ETA.” When the “Share ETA” option is selected, the interface confirms with a message stating, “Message sharing your arrival time sent.” This process uses vehicle-related information, including the vehicle’s current and future vehicle location and its path of travel, to calculate and send the ETA. The action includes providing a notification of an instant message from a friend, interpreting the context of the message, and presenting an option on the interface to “Share ETA” as a proactive response based on that context. ⁸
Row	Claim 5	
5	The method of claim 1, further comprising: determining, by the vehicle control system, relevant information other than the persona of the selected vehicle occupant and the vehicle-related information, the relevant information comprising one or more of a persona of the selected vehicle occupant, a current activity of the friend and/or family member, a current location of the friend or family member near the vehicle and/or the vehicle’s path of travel, and a road condition along a path of travel of the vehicle. For example, the vehicle control system determines a road condition along a path of travel of the vehicle, such as traffic conditions or road construction, when suggesting routes, providing real-time information on traffic and road closures and updating the vehicle’s ETA. As another example, the vehicle control system determines a message	The ’239A Accused Instrumentalities perform the method of claim 1 as described above. The vehicle control system determines relevant information other than the persona of the selected vehicle occupant and the vehicle-related information, the relevant information comprising one or more of a persona of a selected person not currently in the vehicle, a message from a friend or family member of the selected vehicle occupant, a current activity of the friend and/or family member, a current location of the friend or family member near the vehicle and/or the vehicle’s path of travel, and a road condition along a path of travel of the vehicle. For example, the vehicle control system determines a road condition along a path of travel of the vehicle, such as traffic conditions or road construction, when suggesting routes, providing real-time information on traffic and road closures and updating the vehicle’s ETA. As another example, the vehicle control system determines a message

⁸ See, e.g., <https://www.youtube.com/watch?v=Qyfhfg39LbM>; see also <https://built-in.google/cars/>.

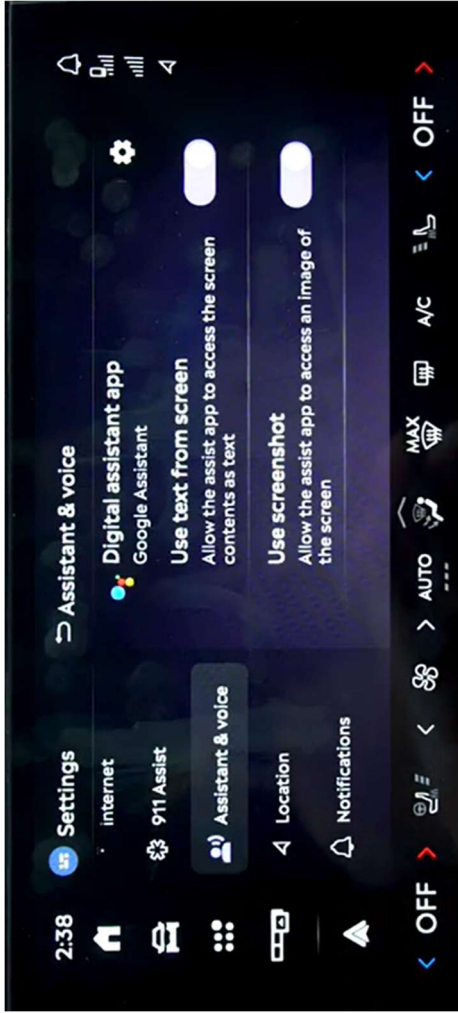
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	friend and/or family member, a current location of the friend or family member near the vehicle and/or the vehicle's path of travel, and a road condition along a path of travel of the vehicle.	from a friend or family member of the selected vehicle occupant when providing suggested message responses. ⁹ <i>See also</i> Claim 1, Row 1C.
Row	Claim 7	
7	The method of claim 1, wherein the maintaining of the persona comprises collecting information from one or more vehicle sensors and/or from a remote information source, wherein the microprocessor executable vehicle control system, based on information received from a sensor identifies and/or distinguishes the selected vehicle occupant's clothing, held object and/or object in the possession of the selected vehicle occupant, and wherein the action is based on the identified and/or distinguished clothing, held object and/or object in the possession of the selected vehicle occupant. For example, the instructions comprise collecting information from one or more vehicle sensors, through Bluetooth or Wi-Fi connections, which incorporate a sensor including an antenna, RF module, and other components responsible for detecting signals. The vehicle control system comprises instructions to identify the vehicle occupant's mobile device, which is a held object and/or object in the possession of the vehicle occupant based on information	The '239A Accused Instrumentalities perform the method of claim 1 as described above. The profile identification module of the '239A Accused Instrumentalities comprises instructions to maintain the persona, which comprises collecting information from one or more vehicle sensors and/or from a remote information source, wherein the microprocessor executable vehicle control system, based on information received from a sensor identifies and/or distinguishes the selected vehicle occupant's clothing, held object and/or object in the possession of the selected vehicle occupant, and wherein the action is based on the identified and/or distinguished clothing, held object and/or object in the possession of the selected vehicle occupant. For example, the instructions comprise collecting information from one or more vehicle sensors, through Bluetooth or Wi-Fi connections, which incorporate a sensor including an antenna, RF module, and other components responsible for detecting signals. The vehicle control system comprises instructions to identify the vehicle occupant's mobile device, which is a held object and/or object in the possession of the vehicle occupant based on information

⁹ See, e.g., <https://www.youtube.com/watch?v=9x9WUSTve9k>; <https://blog.google/products/android/android-auto-new-features-google-io-2023/>; https://www.youtube.com/watch?v=ZSGja_69elo; <https://voicebot.ai/2023/01/13/new-android-auto-upgrades-google-assistant-with-suggestions-shortcuts-whatsapp-phone-calls/>; <https://www.nickmayerfordeast.com/blogs/6941/the-new-android-powered-infotainment-system-in-the-2025-ford-explorer-in-cleveland-heights#:~:text=Just%20say%20what%20you%20need,Schedule%20your%20test%20ride%20today>.

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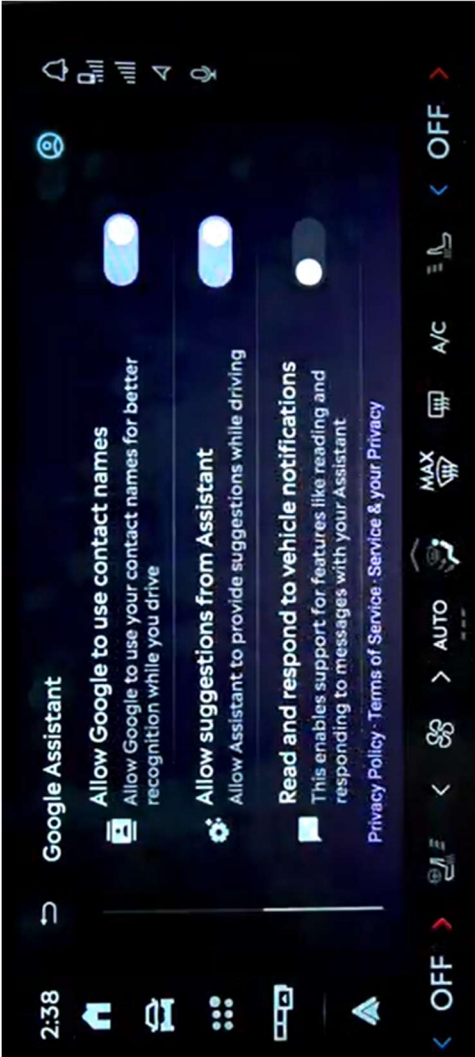
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object and/or object in the possession of the selected vehicle occupant.	received from the vehicle sensor associated with Bluetooth and Wi-Fi signals.¹⁰ The vehicle control system performs an action based on the vehicle occupant's mobile device, such as suggesting that the vehicle occupant respond to a phone call or to share arrival time with a contact from the vehicle display. Additionally, the system provides notifications regarding incoming messages and suggests potential responses.¹¹ 

¹⁰ See, e.g., <https://www.nickmayerfordeast.com/blogs/6941/the-new-android-powered-infotainment-system-in-the-2025-ford-explorer-in-cleveland-heights#:~:text=Just%20say%20what%20you%20need,Schedule%20your%20test%20ride%20today;https://www.youtube.com/watch?v=LmO85JUqFz4>.

¹¹ See, e.g., <https://www.youtube.com/watch?v=9x9WUSTve9k>; <https://blog.google/products/android/auto-new-features-google-io-2023/>; <https://support.google.com/assistant/answer/11091015>; <https://voicebot.ai/2023/01/13/new-android-auto-upgrades-google-assistant-with-suggestions-shortcuts-whatsapp-phone-calls/>; <https://support.google.com/messages/answer/10507055?hl=en#:~:text=Google%20Messages%20saves%20time%20and,Search%20for%20GIFs>.

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	 See also Claim 1, Rows 1A, 1C, and 1D.
Row	Claim 8
8A	A vehicle, comprising: a microprocessor executable profile identification module operable to maintain a persona of a selected vehicle occupant, wherein the persona comprises one or more of bioinformatics, medical information, driving history, personal information, private The '239A Accused Instrumentalities include a vehicle comprising a microprocessor¹² executable profile identification module operable to maintain a persona of a selected vehicle occupant, wherein the persona comprises one or more of bioinformatics, medical information, driving history, personal information, private information, travel information, and Internet browsing history and/or browsed content. For example, the profile identification module of '239A Accused Instrumentalities maintains a persona of a vehicle occupant that may include, for example, medical information (e.g., information from connected health and fitness devices and services), personal information (e.g., name, Gmail address, home address, work address, personal contacts, calendar appointments, business contacts,

¹² Any reference to a “microprocessor” or “processor” in these contentions includes one or more processors operating individually or in combination to perform the specified claim limitation.

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information, travel information, and Internet browsing history and/or browsed content; and	payment information, preferences), private information (e.g., user presence information, Google Account access credentials), driving history, Internet browsing history and/or browsed content.¹³ See also Claim 1, Row 1A.

¹³ See, e.g., <https://built-in.google/cars/>; <https://corporate.ford.com/articles/research-and-innovation/digital-experience/>; <https://www.ford.com/technology/ford-digital-experience/>; <https://www.lincoln.com/technology/lincoln-digital-experience/>; <https://www.ford.com/support/how-tos/ford-technology/ford-digital-experience/ford-digital-experience-profile-setup/>; [https://www.nickmayerfordeast.com/blogs/6941/the-new-android-powered-infotainment-system-in-the-2025-ford-explorer-in-cleveland-heights#:~:text=Just%20say%20what%20you%20need,Schedule%20your%20test%20ride%20today](https://www.nickmayerfordeast.com/blogs/6941/the-new-android-powered-infotainment-system-in-the-2025-ford-explorer-in-cleveland-heights#:~:text=Just%20say%20what%20you%20need,Schedule%20your%20test%20ride%20today;); <https://www.youtube.com/watch?v=95w2mV4KJ9U>; <https://www.youtube.com/watch?v=losLcvfPcoY>; <https://support.google.com/built-in/answer/9905854>; <https://support.google.com/assistant/answer/11091015>; <https://support.google.com/built-in/answer/13827211>; <https://support.google.com/built-in/answer/9941814>; <https://support.google.com/My-Ad-Center-Help/answer/12155656>; <https://support.google.com/My-Ad-Center-Help/answer/12156161>.

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8B a microprocessor executable vehicle control system operable to: determine vehicle-related information, wherein vehicle related information comprises one or more of vehicle context, state, external surroundings, location, past, current, and/or intended path of travel, waypoint, and destination;	The microprocessor executable vehicle control system of the '239A Accused Instrumentalities is operable to determine vehicle-related information, wherein vehicle related information comprises one or more of vehicle context, state, external surroundings, location, past, current, and/or intended path of travel, waypoint, and destination. For example, the vehicle control system of the '239A Accused Instrumentalities determines vehicle-related information such as vehicle state, location, past, current, and/or intended path of travel, destination, and external surroundings (e.g., traffic) in connection with navigation guidance.¹⁴ <i>See also</i> Claim 1, Row 1B.
8C based on the persona of the selected vehicle occupant and the vehicle-related information, determine a type of assistance to provide the selected vehicle occupant, the type of assistance not being based on or in response to a preceding request of the selected vehicle occupant; and	The microprocessor executable vehicle control system of the '239A Accused Instrumentalities, based on the persona of the selected vehicle occupant and the vehicle-related information, determines a type of assistance to provide the selected vehicle occupant, the type of assistance not being based on or in response to a preceding request of the selected vehicle occupant. For example, the vehicle control system determines to proactively suggest actions, such as to return a missed incoming phone call, share an estimated arrival time with a contact, or suggest potential destinations and routes based on the occupant's habits and schedule. The system also determines to provide notifications regarding incoming messages and suggests that the user reply to the message, including pre-composed replies for selection by the occupant.¹⁵

¹⁴ See, e.g., <https://www.youtube.com/watch?v=Qyfhfg39LbM>; <https://blog.google/products/android/android-auto-new-features-google-io-2023/>; <https://corporate.ford.com/articles/research-and-innovation/digital-experience/>; <https://www.ford.com/technology/ford-digital-experience-profile-setup/>.

¹⁵ See, e.g., <https://www.ford.com/support/how-tos/ford-technology/ford-digital-experience/ford-digital-experience-profile-setup/>; <https://www.youtube.com/watch?v=9x9WUSTve9k>; <https://blog.google/products/android/android-auto-new-features-google-io-2023/>; <https://support.google.com/assistant/answer/11091015>; <https://voicebot.ai/2023/01/13/new-android-auto-upgrades-google-assistant-with-suggestions-shortcuts-whatsapp-phone-calls/>; <https://www.youtube.com/watch?v=Qyfhfg39LbM>; <https://www.snydergm.com/google-built-in.htm>; <https://www.youtube.com/watch?v=LmO85JUqFz4>; <https://www.youtube.com/watch?v=FgECqxNrExg>.

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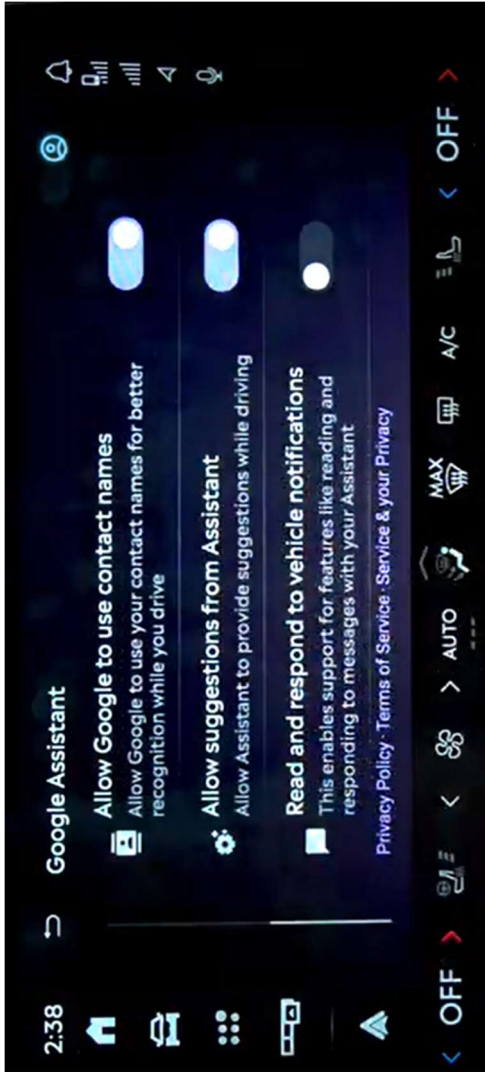
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	As an additional example, a Ford website states “When connectivity is present, Google Maps automatically downloads maps based on current location and where the vehicle thinks users will go.”¹⁶ Another Ford website states “This system also includes AI-driven suggestions based on driving habits, such as auto-adjusting temperature settings or recommending frequently visited destinations at certain times of day.”¹⁷ In determining the type of assistance to provide, the vehicle control system utilizes vehicle-related information, such as its current location or intended destination, and the persona it maintains for the selected vehicle occupant, such as contact information, calendar information, phone call history, information about frequent contacts and/or frequently visited locations. The assistance is initiated independently and is not based on a specific request made by the vehicle occupant at the time the assistance is offered.  <i>See also</i> Claim 1, Row 1C.
8D	The microprocessor executable vehicle control system of the '239A Accused Instrumentalities performs an action assisting the selected vehicle occupant, the action being one or more of providing a suggestion or recommendation to the selected vehicle occupant, providing a reminder to the selected vehicle occupant, scheduling an activity involving the selected vehicle occupant, purchasing an item on line for the selected vehicle occupant, adding an entry into the selected vehicle occupant's

¹⁶ See, e.g., <https://www.ford.com/technology/ford-digital-experience/>.

¹⁷ See, e.g., <https://www.nickmayerfordeast.com/blogs/6941/the-new-and-android-powered-infotainment-system-in-the-2025-ford-explorer-in-cleveland-heights#:~:text=Just%20say%20what%20you%20need,Schedule%20your%20test%20ride%20today.>

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vehicle occupant, providing a reminder to the selected vehicle occupant, scheduling an activity involving the selected vehicle occupant, purchasing an item on line for the selected vehicle occupant, adding an entry into the selected vehicle occupant's electronic calendar, providing a notification to the selected vehicle occupant regarding an incoming message, call or action of a person, and/or sending a message to a person at a waypoint or destination of the vehicle regarding an arrival time of the vehicle.	electronic calendar, providing a notification to the selected vehicle occupant regarding an incoming message, call or action of a person, and/or sending a message to a person at a waypoint or destination of the vehicle regarding an arrival time of the vehicle. For example, the vehicle control system may provide suggestions and recommendations of destinations or routes to the selected vehicle occupant, provide a reminder to the selected vehicle occupant, provide a notification to the selected vehicle occupant regarding an incoming message, call or action of a person, and/or suggest sending a message to a person at a waypoint or destination of the vehicle regarding an arrival time of the vehicle.¹⁸ 

¹⁸ See, e.g., <https://www.youtube.com/watch?v=9x9WUStve9k>; <https://blog.google/products/android/android-auto-new-features-google-io-2023/>; <https://support.google.com/assistant/answer/9346386?hl=en>; <https://voicebot.ai/2023/01/13/new-android-auto-upgrades-google-assistant-with-suggestions-shortcuts-whatsapp-phone-calls/>; <https://www.youtube.com/watch?v=Qyfhfg39LbM>; <https://www.youtube.com/watch?v=LmO85JUqFz4>; <https://built-in.google/cars/>; <https://www.ford.com/technology/ford-digital-experience/>; <https://www.nickmayerfordeast.com/blogs/6941/the-new-android-powered-infotainment-system-in-the-2025-ford-explorer-in-cleveland-heights#:~:text=Just%20say%20what%20you%20need,Schedule%20your%20ride%20today>; <https://www.youtube.com/watch?v=FgECqxNrExg>.

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Infringement Claim Chart

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		<i>See also</i> Claim 1, Row 1D.
Row	Claim 9	
9	The vehicle of claim 8, wherein the vehicle-related information comprises at least one of a current and/or future vehicle location and path of vehicle travel and wherein the action is providing a notification of an instant message, email, voice mail from, and/or missed phone call from, current activity of an instant message, email, voice mail from, and/or missed phone call from, current activity of and/or location of a friend.	The '239A Accused Instrumentalities comprise the vehicle of claim 8 as described above. The microprocessor executable vehicle control system of the '239A Accused Instrumentalities determines vehicle-related information that comprises at least one of a current and/or future vehicle location and path of vehicle travel and wherein the action is providing a notification of an instant message, email, voice mail from, and/or missed phone call from, current activity of and/or location of a friend. For example, in a YouTube video published by Android titled "New ways to stay connected with Android Auto," a scenario is presented where a text message is received from a friend stating, "Hey, when will you arrive?" The display interface provides an actionable option associated with the message to "Share ETA." When the "Share ETA" option is selected, the interface confirms with a message stating, "Message sharing your arrival time sent." This process uses vehicle-related information, including the vehicle's current and future vehicle location and its path of travel, to calculate and send the ETA. The action includes providing a notification of an instant message from a friend, interpreting the context of the message, and presenting an option on the interface to "Share ETA" as a proactive response based on that context.¹⁹ <i>See also</i> Claim 2.
Row	Claim 12	
12	The vehicle of claim 8, wherein the vehicle control system is further operable to determine relevant information other than the persona of the selected vehicle	The '239A Accused Instrumentalities comprise the vehicle of claim 8 as described above. The microprocessor-executable vehicle control system of the '239A Accused Instrumentalities is operable to determine relevant information other than the persona of the selected vehicle occupant and the vehicle-related information, the relevant information comprising one or more of a persona of a

¹⁹ See, e.g., <https://www.youtube.com/watch?v=Qyfhfg39LbM>; see also <https://built-in.google/cars/>.

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	occupant and the vehicle-related information, the relevant information comprising one or more of a persona of a selected person not currently in the vehicle, a message from a friend or family member of the selected vehicle occupant, a current activity of the friend and/or family member, a current location of the friend or family member near the vehicle and/or the vehicle's path of travel, and a road condition along a path of travel of the vehicle. For example, the vehicle control system determines a road condition along a path of travel of the vehicle, such as traffic conditions or road construction, when suggesting routes, providing real-time information on traffic and road closures and updating the vehicle's ETA. As another example, the vehicle control system determines a message from a friend or family member of the selected vehicle occupant when providing suggested message responses. ²⁰	selected person not currently in the vehicle, a message from a friend or family member of the selected vehicle occupant, a current activity of the friend and/or family member, a current location of the friend or family member near the vehicle and/or the vehicle's path of travel, and a road condition along a path of travel of the vehicle. For example, the vehicle control system determines a road condition along a path of travel of the vehicle, such as traffic conditions or road construction, when suggesting routes, providing real-time information on traffic and road closures and updating the vehicle's ETA. As another example, the vehicle control system determines a message from a friend or family member of the selected vehicle occupant when providing suggested message responses. ²⁰
		See <i>also</i> Claim 1, Row 1C; Claim 5.
Row	Claim 15	
15A	A tangible and non-transient computer readable medium comprising microprocessor comprising executable instructions that, when executed, perform functions comprising:	The '239A Accused Instrumentalities include a tangible and non-transient computer readable medium comprising microprocessor ²¹ executable instructions that, when executed, perform functions comprising maintaining a persona of a selected vehicle occupant, wherein the persona comprises one or more of bioinformatics, medical information, driving history, personal information, private information, travel information, and Internet browsing history and/or browsed content.

²⁰ See, e.g., <https://www.youtube.com/watch?v=9x9WUStve9k>; <https://blog.google/products/android/android-auto-new-features-google-io-2023/>; https://www.youtube.com/watch?v=ZSGja_69elo; <https://voicebot.ai/2023/01/13/new-android-auto-upgrades-google-assistant-with-suggestions-shortcuts-whatsapp-phone-calls/>; <https://www.nickmayerfordeast.com/blogs/6941/the-new-android-powered-infotainment-system-in-the-2025-ford-explorer-in-cleveland-heights#:~:text=Just%20say%20what%20you%20need,Schedule%20your%20ride%20today>.

²¹ Any reference to a “microprocessor” or “processor” in these contentions includes one or more processors operating individually or in combination to perform the specified claim limitation.

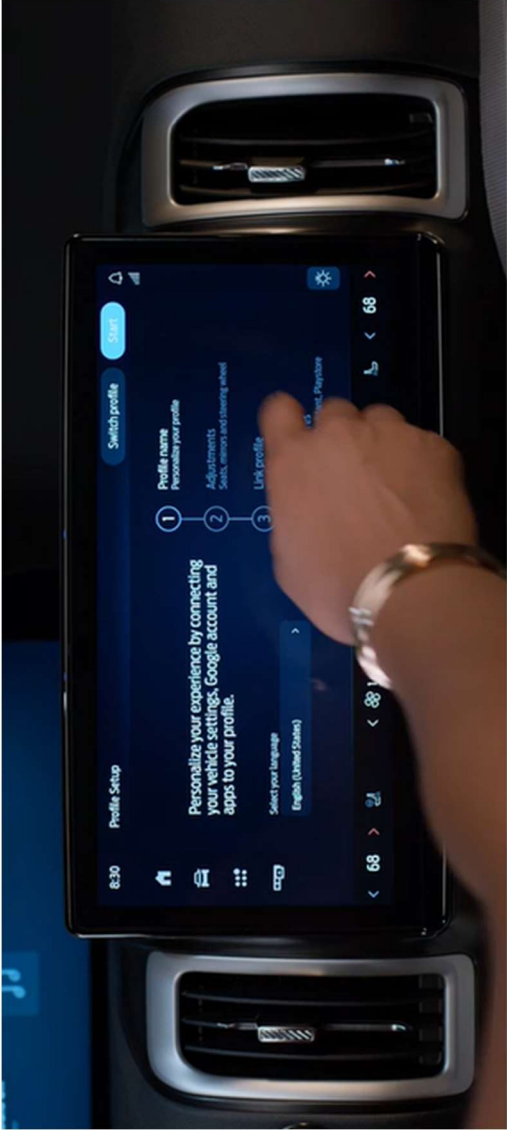
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maintaining a persona of a selected vehicle occupant, wherein the persona comprises one or more of bioinformatics, medical information, driving history, personal information, private information, travel information, and Internet browsing history and/or browsed content;	For example, the profile identification module of '239A Accused Instrumentalities maintains a persona of a vehicle occupant that may include, for example, medical information (<i>e.g.</i> , information from connected health and fitness devices and services), personal information (<i>e.g.</i> , name, Gmail address, home address, work address, personal contacts, calendar appointments, business contacts, payment information, preferences), private information (<i>e.g.</i> , user presence information, Google Account access credentials), driving history, Internet browsing history and/or browsed content. ²²

²² See, e.g., <https://built-in.google/cars/>; <https://corporate.ford.com/articles/research-and-innovation/digital-experience/>; <https://www.ford.com/technology/ford-digital-experience/>; <https://www.lincoln.com/technology/lincoln-digital-experience/>; <https://www.ford.com/support/how-tos/ford-technology/ford-digital-experience/ford-digital-experience-profile-setup/>; [https://www.nickmayerfordeast.com/blogs/6941/the-new-android-powered-infotainment-system-in-the-2025-ford-explorer-in-cleveland-heights#:~:text=Just%20say%20what%20you%20need,Schedule%20your%20test%20ride%20today](https://www.nickmayerfordeast.com/blogs/6941/the-new-android-powered-infotainment-system-in-the-2025-ford-explorer-in-cleveland-heights#:~:text=Just%20say%20what%20you%20need,Schedule%20your%20test%20ride%20today;); <https://www.youtube.com/watch?v=95w2mV4KJ9U>; <https://www.youtube.com/watch?v=losLcvfPcoY>; <https://support.google.com/built-in/answer/9905854>; <https://support.google.com/assistant/answer/11091015>; <https://support.google.com/built-in/answer/13827211>; <https://support.google.com/My-Ad-Center-Help/answer/12155656>; <https://support.google.com/My-Ad-Center-Help/answer/12156161>.

EXHIBIT C2 - U.S. PATENT 9,082,239 Infringement Claim Chart

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15B	 See <i>also</i> Claim 1, Row 1A. The microprocessor executable instructions of the '239A Accused Instrumentalities, when executed, determine vehicle-related information, wherein vehicle related information comprises one or more of vehicle context, state, external surroundings, location, past, current, and/or intended path of travel, waypoint, and destination. For example, the vehicle control system of the '239A Accused Instrumentalities determines vehicle-related information such as vehicle state, location, past, current, and/or intended path of travel, destination, and external surroundings (e.g., traffic) in connection with navigation guidance.²³ See <i>also</i> Claim 1, Row 1B.

²³ See, e.g., <https://www.youtube.com/watch?v=Qyfhfg39LbM>; <https://blog.google/products/android/auto-new-features-google-io-2023/>; <https://corporate.ford.com/articles/research-and-innovation/digital-experience/>; <https://www.ford.com/technology/ford-digital-experience/>.

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15C based on the persona of the selected vehicle occupant and the vehicle-related information, determining a type of assistance to provide the selected vehicle occupant, the type of assistance not being based on or in response to a preceding request of the selected vehicle occupant; and	The microprocessor executable instructions of the '239A Accused Instrumentalities, when executed, determine, based on the persona of the selected vehicle occupant and the vehicle-related information, a type of assistance to provide the selected vehicle occupant, the type of assistance not being based on or in response to a preceding request of the selected vehicle occupant. For example, the vehicle control system determines to proactively suggest actions, such as to return a missed incoming phone call, share an estimated arrival time with a contact, or suggest potential destinations and routes based on the occupant's habits and schedule. The system also determines to provide notifications regarding incoming messages and suggests that the user reply to the message, including pre-composed replies for selection by the occupant.²⁴ As an additional example, a Ford website states "When connectivity is present, Google Maps automatically downloads maps based on current location and where the vehicle thinks users will go."²⁵ Another Ford website states "This system also includes AI-driven suggestions based on driving habits, such as auto-adjusting temperature settings or recommending frequently visited destinations at certain times of day."²⁶ In determining the type of assistance to provide, the vehicle control system utilizes vehicle-related information, such as its current location or intended destination, and the persona it maintains for the selected vehicle occupant, such as contact information, calendar information, phone call history, information about frequent contacts and/or frequently visited locations. The assistance is initiated independently and is not based on a specific request made by the vehicle occupant at the time the assistance is offered.

²⁴ See, e.g., <https://www.ford.com/support/how-tos/ford-technology/ford-digital-experience/ford-digital-experience-profile-setup/>; <https://www.youtube.com/watch?v=9x9WUSTve9k>; <https://blog.google/products/android/android-auto-new-features-google-io-2023/>; <https://support.google.com/assistant/answer/11091015>; <https://voicebot.ai/2023/01/13/new-android-auto-upgrades-google-assistant-with-suggestions-shortcuts-whatsapp-phone-calls/>; <https://www.youtube.com/watch?v=Qyfhfg39LbM>; <https://www.snydergm.com/google-built-in.htm>; <https://www.youtube.com/watch?v=LmO85JUqFz4>; <https://www.youtube.com/watch?v=FgECqXNrExg>.

²⁵ See, e.g., <https://www.ford.com/technology/ford-digital-experience/>.

²⁶ See, e.g., <https://www.nickmayerfordeast.com/blogs/6941/the-new-android-powered-infotainment-system-in-the-2025-ford-explorer-in-cleveland-heights#:~:text=Just%20say%20what%20you%20need,Schedule%20your%20test%20ride%20today>.

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	 <i>See also</i> Claim 1, Row 1C.
15D	performing an action assisting the vehicle occupant, the action being one or more of providing a suggestion or recommendation to the selected vehicle occupant, providing a reminder to the selected vehicle occupant, adding an entry into the selected vehicle occupant's electronic calendar, providing a notification to the selected vehicle occupant regarding an incoming message, call or action of a person, and/or sending a message to a person at a waypoint or destination of the vehicle regarding an arrival time of the vehicle. For example, the vehicle control system may provide suggestions and recommendations of destinations or routes to the selected vehicle occupant, provide a reminder to the selected vehicle occupant, provide a notification to the selected vehicle occupant regarding an incoming message, call or action of a person, and/or suggest sending a message to a person at a waypoint or destination of the vehicle regarding an arrival time of the vehicle.²⁷

²⁷ See, e.g., <https://www.youtube.com/watch?v=9x9WUStve9k>; <https://blog.google/products/android/android-auto-new-features-google-io-2023/>; <https://support.google.com/assistant/answer/9346386?hl=en>; <https://voicebot.ai/2023/01/13/new-android-auto-upgrades-google-assistant-with-suggestions-shortcuts-whatsapp-phone-calls/>; <https://www.youtube.com/watch?v=Qyfhfg39LbM>; <https://www.youtube.com/watch?v=LmO85JUqFz4>; <https://built-in.google/cars/>; <https://www.ford.com/technology/ford-digital-experience/>; <https://www.nickmayerfordeast.com/blogs/6941/the-new-android-powered-infotainment-system-in-the-2025-ford-explorer-in-cleveland-heights#:~:text=Just%20say%20what%20you%20need,Schedule%20your%20ride%20today>; <https://www.youtube.com/watch?v=FgECqxNrExg>.

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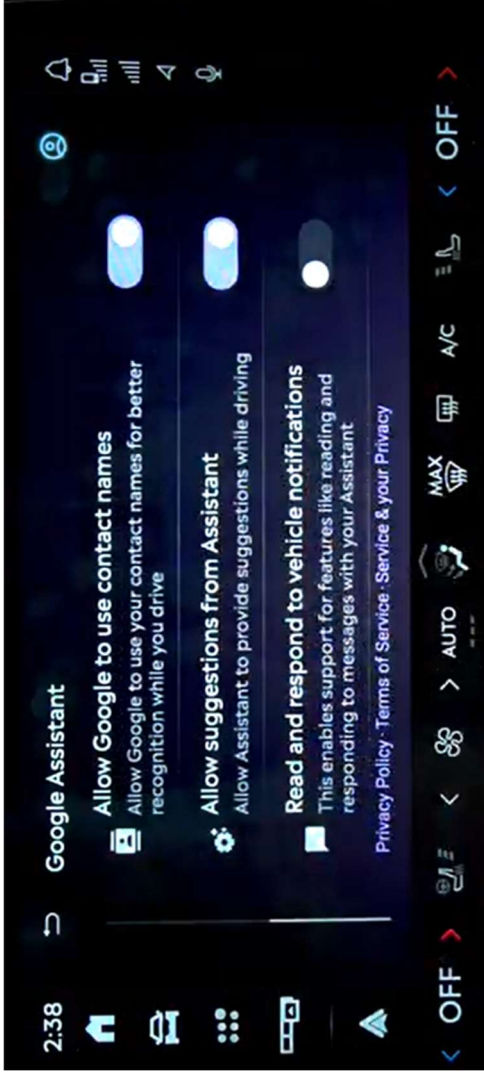
U.S. Patent 9,082,239	Ford Infringing Activities
occupant's electronic calendar, providing a notification to the selected vehicle occupant regarding an incoming message, call or action of a person, and/or sending a message to a person at a waypoint or destination of the vehicle regarding an arrival time of the vehicle.	 <i>See also Claim 1, Row 1D.</i>
Row	Claim 16
16	The computer readable medium of claim 15, wherein the vehicle-related information comprises at least one of a current and/or future vehicle location and path of vehicle travel and wherein the action is providing a notification of an instant message, email, voice mail from, and/or missed phone call from, current activity of and/or location of a friend. The '239A Accused Instrumentalities comprise the computer readable medium of claim 15 as described above. The computer readable medium of the '239A Accused Instrumentalities contains instructions that, when executed, cause the '239A Accused Instrumentalities to determine vehicle-related information comprising at least one of a current and/or future vehicle location and path of vehicle travel and wherein the action is providing a notification of an instant message, email, voice mail from, and/or missed phone call from, current activity of and/or location of a friend. For example, in a YouTube video published by Android titled "New ways to stay connected with Android Auto," a scenario is presented where a text message is received from a friend stating, "Hey, when will you arrive?" The display interface provides an actionable option associated with the message to "Share ETA." When the "Share ETA" option is selected, the interface confirms with a message stating, "Message sharing

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		your arrival time sent.” This process uses vehicle-related information, including the vehicle’s current and future vehicle location and its path of travel, to calculate and send the ETA. The action includes providing a notification of an instant message from a friend, interpreting the context of the message, and presenting an option on the interface to “Share ETA” as a proactive response based on that context.²⁸ See <i>also</i> Claim 2; Claim 9.
Row	Claim 19	
19	The computer readable medium of claim 15, further comprising the function of determining relevant information other than the persona of the selected vehicle occupant and the vehicle-related information, the relevant information comprising one or more of a persona of a selected person not currently in the vehicle, a message from a friend or family member of the selected vehicle occupant, a current activity of the friend and/or family member, a	The ’239A Accused Instrumentalities comprise the computer readable medium of claim 15 as described above. The computer readable medium of the ’239A Accused Instrumentalities contains instructions that, when executed, cause the ’239A Accused Instrumentalities to determine vehicle-related information comprising at least one of a current and/or future vehicle location and path of vehicle travel and wherein the action is providing a notification of an instant message, email, voice mail from, and/or missed phone call from, current activity of and/or location of a friend. For example, the vehicle control system determines a road condition along a path of travel of the vehicle, such as traffic conditions or road construction, when suggesting routes, providing real-time information on traffic and road closures and updating the vehicle’s ETA. As another example, the vehicle control system determines a message from a friend or family member of the selected vehicle occupant when providing suggested message responses.²⁹

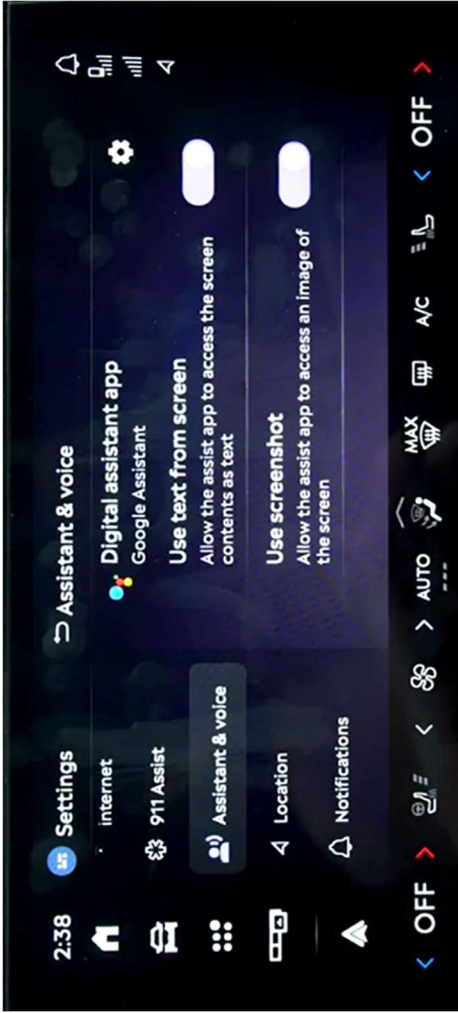
²⁸ See, e.g., <https://www.youtube.com/watch?v=Qyfhfg39LbM>; see *also* <https://built-in.google/cars/>.

²⁹ See, e.g., <https://www.youtube.com/watch?v=9x9WUSTVe9k>; <https://blog.google/products/android/android-auto-new-features-google-io-2023/>; https://www.youtube.com/watch?v=ZSGja_69elo; <https://voicebot.ai/2023/01/13/new-android-auto-upgrades-google-assistant-with-suggestions-shortcuts-whatsapp-phone-calls/>; <https://www.nickmayerfordeast.com/blogs/6941/the-new-android-powered-infotainment-system-in-the-2025-ford-explorer-in-cleveland-heights#:~:text=Just%20say%20what%20you%20need,Schedule%20your%20test%20ride%20today>.

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current location of the friend or family member near the vehicle and/or the vehicle's path of travel, and a road condition along a path of travel of the vehicle.	See <i>also</i> Claim 1, Row 1C; Claim 5; Claim 12.
Row	Claim 21
21	The computer readable medium of claim 15, wherein the maintaining of the persona comprises collecting information from one or more vehicle sensors and/or from a remote information source, wherein the microprocessor executable vehicle control system, based on information received from a sensor identifies and/or distinguishes the selected vehicle occupant's clothing, held object and/or object in the possession of the selected vehicle occupant, and wherein the action is based on the identified and/or distinguished clothing, held object and/or object in the possession of the selected vehicle occupant. For example, the instructions comprise collecting information from one or more vehicle sensors, through Bluetooth or Wi-Fi connections, which incorporate a sensor including an antenna, RF module, and other components responsible for detecting signals. The vehicle control system comprises instructions to identify the vehicle occupant's mobile device, which is a held object and/or object in the possession of the vehicle occupant based on information received from the vehicle sensor associated with Bluetooth and Wi-Fi signals.³⁰ The vehicle control system performs an action based on the vehicle occupant's mobile device, such as suggesting that the vehicle occupant respond to a phone call or to share arrival time with a contact from the vehicle

³⁰ See, e.g., <https://www.nickmayerfordeast.com/blogs/6941/the-new-android-powered-in-fortainment-system-in-the-2025-ford-explorer-in-cleveland-heights#:~:text=Just%20say%20what%20you%20need,Schedule%20your%20test%20ride%20today;https://www.youtube.com/watch?v=LmO85JUqFz4>.

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	display. Additionally, the system provides notifications regarding incoming messages and suggests potential responses.³¹ 

³¹ See, e.g., <https://www.youtube.com/watch?v=9x9WUSTve9k>; <https://blog.google/products/android/android-auto-new-features-google-io-2023/>; <https://support.google.com/assistant/answer/11091015>; <https://voicebot.ai/2023/01/13/new-android-auto-upgrades-google-assistant-with-suggestions-shortcuts-whatsapp-phone-calls/>; <https://support.google.com/messages/answer/10507055?hl=en#:~:text=Google%20Messages%20saves%20time%20and,Search%20for%20GIFs,>

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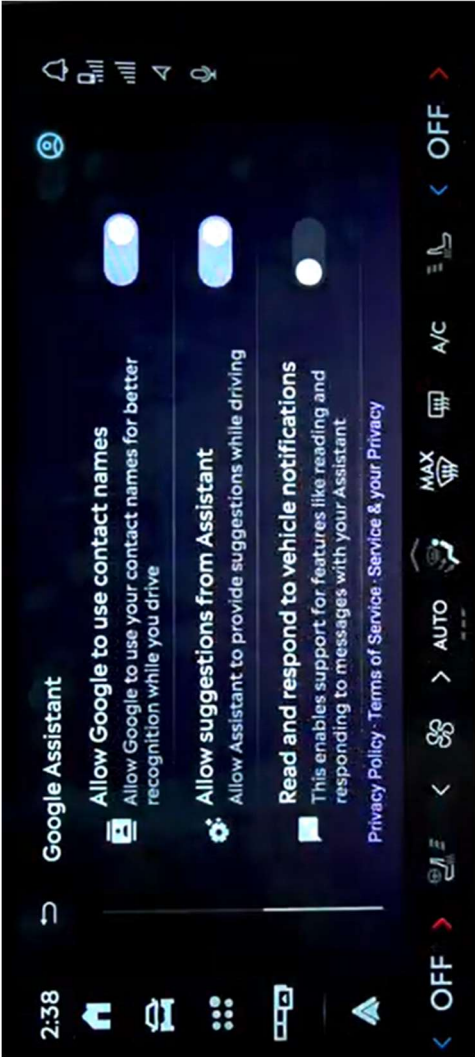
U.S. Patent 9,082,239	Ford Infringing Activities
	 <i>See also</i> Claim 1, Rows 1A, 1C, and 1D; Claim 7.
Row	Claim 22
22	The computer readable medium of claim 21, wherein the maintaining of the persona comprises collecting information from one or more vehicle sensors and/or from a remote information source and wherein a type of information collected depends on one or more of an identity of the selected vehicle occupant, an age of the selected vehicle occupant, a seating position of the selected vehicle occupant, and an The '239A Accused Instrumentalities include the computer readable medium of claim 21 as described above. The computer readable medium of the '239A Accused Instrumentalities provides instructions that, when executed by the processor, maintains the persona, which comprises collecting information from one or more vehicle sensors and/or from a remote information source and wherein a type of information collected depends on one or more of an identity of the selected vehicle occupant, an age of the selected vehicle occupant, a seating position of the selected vehicle occupant, and an association of the selected vehicle occupant with the vehicle. For example, the '239A Accused Instrumentalities collect information from a remote information source such as a remote server containing information associated with a user's Google account. The type of information collected from the user's Google account depends on the identity of the selected vehicle occupant whose Google account is accessed. For example, the '239A Accused Instrumentalities have an advertising

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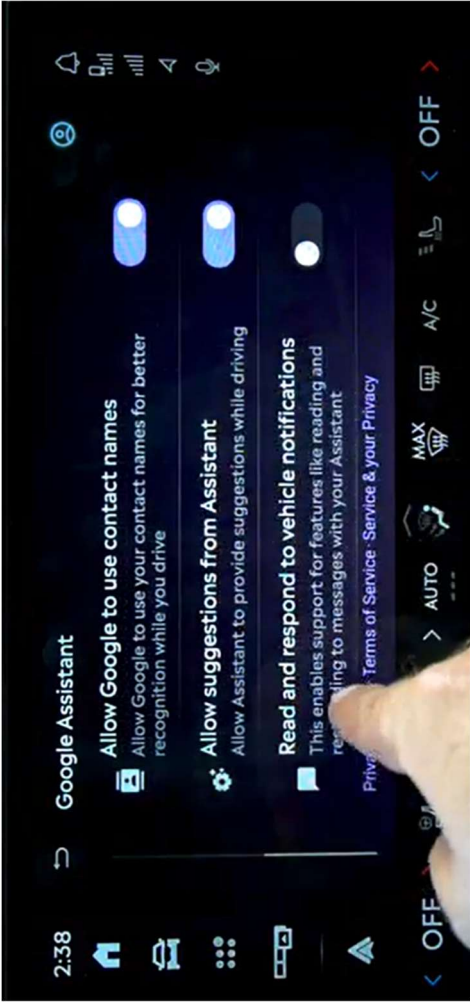
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association of the selected vehicle occupant with the vehicle.	ID unique to each persona, which contains information such as a user's age and gender and activity saved to a user's Google Account, such as Google Searches, videos watched, installed apps, content a user has interacted with, and the user's general area.³² As an additional example, users may create a user profile that, among other things, permits or prohibits the '239A Accused Instrumentalities from collecting certain types of information, such as contact names or incoming messages from a remote information source such as a user's mobile device.³³ In this scenario, the type of information collected depends on an identity and/or association of the selected vehicle occupant with the vehicle.

³² See, e.g., <https://support.google.com/built-in/answer/13827211>; <https://support.google.com/My-Ad-Center-Help/answer/12155656>; <https://www.youtube.com/watch?v=LmO85JUqFz4>; <https://support.google.com/built-in/answer/9941814>; <https://support.google.com/built-in/answer/9905854>; <https://support.google.com/assistant/answer/11091015>; <https://www.youtube.com/watch?v=LmO85JUqFz4>; <https://www.youtube.com/watch?v=FgECqxNrExg>.

³³ See, e.g., <https://www.youtube.com/watch?v=LmO85JUqFz4>; <https://corporate.ford.com/articles/research-and-innovation/digital-experience/>; <https://www.youtube.com/watch?v=FgECqxNrExg>.

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Row	Claim 31
31	The method of claim 1, wherein the vehicle control system synchronizes with an electronic calendar of the selected vehicle occupant to provide scheduled activity alarms and calendar updates. The '239A Accused Instrumentalities perform the method of claim 1 as described above. The vehicle control system of the '239A Accused Instrumentalities synchronizes with an electronic calendar of the selected vehicle occupant to provide schedule activity alarms and calendar updates. For example, the vehicle control system gathers information from a calendar associated with the user and provides alerts regarding upcoming events on the user's electronic calendar and calendar updates.³⁴

³⁴ See, e.g., <https://built-in-google/cars/>; <https://www.yahoo.com/tech/psa-google-maps-tell-leave-140113327.html>; <https://www.nickmayerfordcast.com/blogs/6941/the-new-android-powered-in-fo-entertainment-system-in-the-2025-ford-explorer-in-cleveland-heights#:~:text=Just%20say%20what%20you%20need,Schedule%20your%20ride%20today;https://www.youtube.com/watch?v=9x9WUSTve9k>.

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Row	Claim 33	
33	The method of claim 1, wherein the vehicle control system provides a display to the selected vehicle occupant, the display comprising a plurality of selectable applications, an indicator of vehicle-related information, one or more messages for the selected vehicle occupant, a navigation input field for receiving a location-enabled object as a waypoint or destination for a route of travel, contact addresses of persons associated with the selected vehicle occupant, and electronic calendar information for the selected vehicle occupant. For example, the '239A Accused Instrumentalities include a display that provides a plurality of selectable applications (e.g., Google Maps, YouTube Spotify, Webex), an indicator of vehicle-related information such as vehicle state, location, speed, fuel efficiency and/or charge, past, current, and/or intended path of travel, destination, and external surroundings (e.g., traffic), one or more messages for the vehicle occupant, a navigation input field which can receive a location-enabled object as a waypoint or destination for a route of travel, contact addresses for the vehicle occupant's contacts, and electronic calendar information for the vehicle occupant. ³⁵	The '239A Accused Instrumentalities perform the method of claim 1 as described above. The vehicle control system of the '239A Accused Instrumentalities provides a display to the selected vehicle occupant, the display comprising a plurality of selectable applications, an indicator of vehicle-related information, one or more messages for the selected vehicle occupant, a navigation input field for receiving a location-enabled object as a waypoint or destination for a route of travel, contact addresses of persons associated with the selected vehicle occupant, and electronic calendar information for the selected vehicle occupant. For example, the '239A Accused Instrumentalities include a display that provides a plurality of selectable applications (e.g., Google Maps, YouTube Spotify, Webex), an indicator of vehicle-related information such as vehicle state, location, speed, fuel efficiency and/or charge, past, current, and/or intended path of travel, destination, and external surroundings (e.g., traffic), one or more messages for the vehicle occupant, a navigation input field which can receive a location-enabled object as a waypoint or destination for a route of travel, contact addresses for the vehicle occupant's contacts, and electronic calendar information for the vehicle occupant.³⁵
Row	Claim 35	
35	The method of claim 1, further comprising: determining, by the vehicle control system, relevant information other than the persona of the selected vehicle occupant	The '239A Accused Instrumentalities perform the method of claim 1 as described above. The vehicle control system of the '239A Accused Instrumentalities determines relevant information other than the persona of the selected vehicle occupant and the vehicle-related information, the relevant information comprising one or more of a location, hours of operation, and/or descriptive

³⁵ See, e.g., <https://www.youtube.com/watch?v=9x9WUStve9k>; <https://www.youtube.com/watch?v=Qyfhfg39LbM>; <https://blog.google/products/android/android-auto-new-features-google-io-2023/>; <https://built-in.google/cars/>; <https://www.youtube.com/watch?v=LmO85JUqFz4>; <https://www.youtube.com/watch?v=95w2mV4KJ9U>.

EXHIBIT C2 - U.S. PATENT 9,082,239

Infringement Claim Chart

U.S. Patent 9,082,239	Ford Infringing Activities
and the vehicle-related information, the relevant information comprising one or more of a location, hours of operation, and/or descriptive information about a point and/or location of interest near the vehicle and/or the vehicle's path of travel, a location, hours of operation, and/or descriptive information about a vehicle service facility near the vehicle and/or the vehicle's path of travel, and a location, hours of operation, and/or descriptive information about a hotel and/or motel near the vehicle and/or the vehicle's path of travel.	information about a point and/or location of interest near the vehicle and/or the vehicle's path of travel, a location, hours of operation, and/or descriptive information about a vehicle service facility near the vehicle and/or the vehicle's path of travel, and a location, hours of operation, and/or descriptive information about a hotel and/or motel near the vehicle and/or the vehicle's path of travel. For example, the vehicle control system determines relevant information such as the location of and/or descriptive information about a point and/or location of interest near the vehicle and/or the vehicle's path of travel.³⁶

³⁶ See, e.g.,

[https://support.google.com/maps/answer/6289989?hl=en&co=GENIE.Platform%3DAndroid#:~:text=How%20Maps%20chooses%20places%20you,turn%20on%20the%20settings%20below.&text=Web%20App%20Activity:%20This%20might,%2C%20calendar%20entries%2C%20and%20apps;https://arstechnica.com/gadgets/2017/11/google-maps-adds-color-to-help-you-hone-in-on-points-of-interest/#:~:text=Google%20is%20rolling%20out%20a%20new%20look,Points%20of%20Interest%20\(POI\)%20on%20Google%20Maps;https://mapsplatform.google.com/resources/blog/discover-more-faster-ai-powered-summaries-for-places-areas-and-reviews-are-now-generally-available/#:~:text=Why%20Google-.Discover%20more%2C%20faster:%20AI%20Dpowered%20summaries%20for%20places%2C,reviews%20are%20now%20Generally%20Available&text=Get%20up%20to%2010%2C000%20free,%2C%20review%2C%20and%20area%20summaries.](https://support.google.com/maps/answer/6289989?hl=en&co=GENIE.Platform%3DAndroid#:~:text=How%20Maps%20chooses%20places%20you,turn%20on%20the%20settings%20below.&text=Web%20App%20Activity:%20This%20might,%2C%20calendar%20entries%2C%20and%20apps;https://arstechnica.com/gadgets/2017/11/google-maps-adds-color-to-help-you-hone-in-on-points-of-interest/#:~:text=Google%20is%20rolling%20out%20a%20new%20look,Points%20of%20Interest%20(POI)%20on%20Google%20Maps;https://mapsplatform.google.com/resources/blog/discover-more-faster-ai-powered-summaries-for-places-areas-and-reviews-are-now-generally-available/#:~:text=Why%20Google-.Discover%20more%2C%20faster:%20AI%20Dpowered%20summaries%20for%20places%2C,reviews%20are%20now%20Generally%20Available&text=Get%20up%20to%2010%2C000%20free,%2C%20review%2C%20and%20area%20summaries.)

EXHIBIT C4 - U.S. PATENT 9,082,239

Infringement Claim Chart

Upon information and belief, all '239B Accused Instrumentalities use the same or similar structures to implement the features described in the following chart in materially the same way, unless expressly stated otherwise. Accordingly, the described structures, features, and corresponding infringement contentions are representative of infringement by all '239B Accused Instrumentalities, including Accused Instrumentalities of the Ford and Lincoln brands. In addition, the exemplary evidence cited herein, while representative of all '239B Accused Instrumentalities, is non-exhaustive, based on publicly available information, and provided for illustrative purposes only. AutoConnect reserves the right to supplement or amend these contentions based on information obtained during discovery, and to rely on additional evidence consistent with the infringement theories set forth in its infringement contentions.

U.S. Patent 9,082,239		Ford Infringing Activities
Row	Claim 1	
1A	A method, comprising: maintaining, by a microprocessor executable profile identification module, a persona of a selected vehicle occupant, wherein the persona comprises one or more of bioinformatics, medical	The '239B Accused Instrumentalities perform the method set forth in Rows 1A-1D. The '239B Accused Instrumentalities each include a microprocessor' executable profile identification module that maintains a persona of a vehicle occupant, wherein the persona comprises one or more of bioinformatics, medical information, driving history, personal information, private information, travel information, and Internet browsing history and/or browsed content. For example, the profile identification module of '239B Accused Instrumentalities maintains a persona of a vehicle occupant that may include, for example, personal information (e.g., name, home address, personal and business contacts, phone call data), private information, driving history, and/or travel information. ²

¹ Any reference to a "microprocessor" or "processor" in these contentions includes one or more processors operating individually or in combination to perform the specified claim limitation.

² See, e.g., <https://www.youtube.com/watch?v=h3457G5mWF0>; <https://www.ford.com/support/how-tos/sync/sync-4a/what-personal-data-does-sync-4a-collect-to-customize-suggestions/>; [https://www.fordservicecontent.com/Ford_Content/vdirtsnet/OwnerManual/Home/Content?variantid=9193&languageCode=en&countryCode=USA&Uid=G2322007&ProcUid=G2322008&userMarket=GBR&div=f&vFilteringEnabled=False&buildtype=web](https://www.fordservicecontent.com/Ford_Content/vdirtsnet/OwnerManual/Home/Content?variantid=9193&languageCode=en&countryCode=USA&Uid=G2322007&ProcUid=G2322008&userMarket=GBR&div=f&vFilteringEnabled=False&buildtype=web;); [https://media.ford.com/content/fordmedia/feu/en/news/2020/09/04/ford-next-generation-sync-technical-briefing.html#:~:text=Debuting%20in%20the%20all%20Electric,recommendations%20based%20upon%20previous%20journeys](https://media.ford.com/content/fordmedia/feu/en/news/2020/09/04/ford-next-generation-sync-technical-briefing.html#:~:text=Debuting%20in%20the%20all%20Electric,recommendations%20based%20upon%20previous%20journeys;); <https://www.ford.com/support/how-tos/sync/getting-started-with-sync/how-do-i-create-a-personal-profile-with->

EXHIBIT C4 - U.S. PATENT 9,082,239

Infringement Claim Chart

U.S. Patent 9,082,239	Ford Infringing Activities
information, driving history, personal information, private information, travel information, and Internet browsing history and/or browsed content;	
1B determining, by a microprocessor executable vehicle control system, vehicle-related information, wherein vehicle related information comprises one or more of vehicle context, state, external surroundings, location, past, current, and/or intended path of travel, waypoint, and destination; and	The '239B Accused Instrumentalities contain a microprocessor executable vehicle control system. The microprocessor executable vehicle control system determines vehicle-related information, wherein vehicle-related information comprises one or more of vehicle context, state, external surroundings, location, past, current, and/or intended path of travel, waypoint, and destination. For example, the vehicle control system of the '239B Accused Instrumentalities determines vehicle-related information such as vehicle state, location, past, current, and/or intended path of travel, destination, and external surroundings (e.g., traffic) in connection with, for example, navigation guidance. ³
1C based on the persona of the selected vehicle occupant and the vehicle-related information, determining, by the	The microprocessor executable vehicle control system of the '239B Accused Instrumentalities determines, based on the occupant's persona and the vehicle-related information, a type of assistance to provide the vehicle occupant, the type of assistance not being based on or in response to a preceding request of the selected vehicle occupant. For example, the vehicle control system

[sync/#:~:text=to%20Intelligent%20Suggestions.-](#)

,These%20are%20suggestions%20that%20will%20appear%20on%20the%20SYNC%20screen,Personal%20Profiles%20section%20under%20Settings; [https://www.ford.com/help/privacy/#connectedvehicleprivacynotice](#); [https://www.dorianford.com/ford-navigation-system#:~:text=Personalized%20Navigation%20with%20Real%20Time,suggestions%20based%20on%20past%20trips.](#)

³ See, e.g., [https://www.ford.com/technology/connected-navigation/](#); [https://www.ford.com/help/privacy/#connectedvehicleprivacynotice](#); [https://www.ford.com/support/how-tos/sync/sync-4/how-do-i-use-the-sync-4-technology-navigation-systems/#:~:text=Support%3ESYNC%3ESYNC%204%3E,trips%20has%20changed%20as%20well.](#)

EXHIBIT C4 - U.S. PATENT 9,082,239

Infringement Claim Chart

U.S. Patent 9,082,239	Ford Infringing Activities
microprocessor executable vehicle control system, a type of assistance to provide the selected vehicle occupant, the type of assistance not being based on or in response to a preceding request of the selected vehicle occupant;	determines to proactively suggest actions, such as to call a contact, to apply a climate setting, to listen to media, to navigate to a particular destination, or suggest a search for parking or electric vehicle charging locations based on persona information, such as the occupant's habits and schedule. In determining the type of assistance to provide, the vehicle control system utilizes vehicle-related information, such as its external surroundings; location; past, current, and/or intended path of travel; and/or destination, and the persona it maintains for the selected vehicle occupant, such as information about contacts, call history, personal habits or preferences and/or frequently visited locations. The assistance is not based on a specific request made by the vehicle occupant at the time the assistance is offered.⁴ <i>See also</i> Rows 1A and 1B.

⁴ See e.g., <https://www.ford.com/technology/connected-navigation/>; <https://www.ford.com/help/privacy/#connectedvehicleprivacynotice>; https://www.fordservicecontent.com/Ford_Content/vdirsnet/OwnerManual/Home/Content?variantid=7748&languageCode=en&countryCode=USA&moidRef=G2128011&Uid=G2209847&ProcUid=G2167905&userMarket=CAN&div=f&vFilteringEnabled=False&buildtype=web; [https://www.ford.com/support/how-tos/sync/sync-4/how-do-i-use-the-sync-4-technology-navigation-systems/#:~:text=Support%3ESYNC%204%3E,trips%20has%20changed%20as%20well](https://www.ford.com/support/how-tos/sync/sync-4/how-do-i-use-the-sync-4-technology-navigation-systems/#:~:text=Support%3ESYNC%204%3E,trips%20has%20changed%20as%20well;); <https://www.youtube.com/watch?v=h3457G5mWF0>; <https://www.ford.com/support/how-tos/sync/sync-4a/what-personal-data-does-sync-4a-collect-to-customize-suggestions/#:~:text=With%20your%20consent%2C%20the%20SYNC,are%20compatible%20with%20all%20phones>; <https://www.willisford.com/ford-ai-driving-experience.htm#:~:text=Personalized%20In%20DCar%20Experience,latest%20features%20and%20security%20patches>; <https://media.ford.com/content/fordmedia/feu/en/news/2020/09/04/ford-next-generation-sync-technical-briefing.html#:~:text=Debuting%20in%20the%20all%20Electric,recommendations%20based%20upon%20previous%20journeys>; <https://www.ford.com/support/how-tos/sync/getting-started-with-sync/how-do-i-create-a-personal-profile-with-sync/#:~:text=to%20Intelligent%20Suggestions,-These%20are%20suggestions%20that%20will%20appear%20on%20the%20SYNC%20screen,Personal%20Profiles%20section%20under%20Settings>; <https://www.dorianford.com/ford-navigation-system#:~:text=Personalized%20Navigation%20with%20Real%20Time,suggestions%20based%20on%20past%20trips>; <https://www.prestonford.com/blogs/3406/ford-sync-4/#:~:text=Navigation%20and%20Routing,step%20ahead%20on%20the%20road>.

EXHIBIT C4 - U.S. PATENT 9,082,239

Infringement Claim Chart

U.S. Patent 9,082,239	Ford Infringing Activities
1D performing, by the microprocessor executable vehicle control system, an action assisting the selected vehicle occupant, the action being one or more of providing a suggestion or recommendation to the selected vehicle occupant, adding an entry into the selected vehicle occupant's electronic calendar, providing a notification to the selected vehicle occupant regarding an incoming message, call or action of a person, and/or sending a message to a person at a waypoint or destination of the vehicle regarding an arrival time of the vehicle. For example, the vehicle control system may provide suggestions and recommendations of destinations and routes to the selected vehicle occupant, suggestions and recommendations to call a contact to the selected vehicle occupant, suggestions and recommendations to apply a climate setting to the selected vehicle occupant, suggestions and recommendations to listen to media to the selected vehicle occupant, and/or a notification to the selected vehicle occupant regarding an incoming message, call or action of a person.⁵ <i>See also</i> Row 1C.	The microprocessor executable vehicle control system of the '239B Accused Instrumentalities performs an action assisting the selected vehicle occupant, the action being one or more of providing a suggestion or recommendation to the selected vehicle occupant, providing a reminder to the selected vehicle occupant, scheduling an activity involving the selected vehicle occupant, purchasing an item on line for the selected vehicle occupant, adding an entry into the selected vehicle occupant's electronic calendar, providing a notification to the selected vehicle occupant regarding an incoming message, call or action of a person, and/or sending a message to a person at a waypoint or destination of the vehicle regarding an arrival time of the vehicle. For example, the vehicle control system may provide suggestions and recommendations of destinations and routes to the selected vehicle occupant, suggestions and recommendations to call a contact to the selected vehicle occupant, suggestions and recommendations to apply a climate setting to the selected vehicle occupant, suggestions and recommendations to listen to media to the selected vehicle occupant, and/or a notification to the selected vehicle occupant regarding an incoming message, call or action of a person.⁵

⁵ See, e.g., <https://www.dorianford.com/ford-navigation-system#:~:text=Personalized%20Navigation%20with%20Real%20Time,suggestions%20based%20on%20past%20trips;https://www.ford.com/support/how-tos/sync/getting-started-with-sync/how-do-i-create-a-personal-profile-with-sync/#:~:text=to%20Intelligent%20Suggestions,-.These%20are%20suggestions%20that%20will%20appear%20on%20the%20SYNC%20screen,Personal%20Profiles%20section%20under%20Settings;https://media.ford.com/content/fordmedia/feu/en/news/2020/09/04/ford-next-generation-sync-technical-briefing.html#:~:text=Debuting%20in%20the%20all%20Electric,recommendations%20based%20upon%20previous%20journeys;https://www.willisford.com/ford-ai-driving-experience.htm#:~:text=Personalized%20In%20Car%20Experience,latest%20features%20and%20security%20patches;https://www.ford.com/support/how-tos/sync/sync-4a/what-personal-data-does-sync-4a-collect-to-customize-suggestions/#:~:text=With%20your%20consent%20the%20SYNC,are%20compatible%20with%20all%20phones;https://www.youtube.com/watch?v=h3457G5mWF0;https://www.prestonford.com/blogs/3406/ford-sync-4/#:~:text=Navigation%20and%20Routing,step%20ahead%20on%20the%20road.>

EXHIBIT C4 - U.S. PATENT 9,082,239 Infringement Claim Chart

U.S. Patent 9,082,239		Ford Infringing Activities
	selected vehicle occupant regarding an incoming message, call or action of a person, and/or sending a message to a person at a waypoint or destination of the vehicle regarding an arrival time of the vehicle.	
Row	Claim 5	
5	The method of claim 1, further comprising: determining, by the vehicle control system, relevant information other than the persona of the selected vehicle occupant and the vehicle-related information, the relevant information comprising one or more of a persona of a selected person not currently in the vehicle, a current activity of the friend and/or family member, a current location of the friend or family member near the vehicle and/or the vehicle's path of travel, and a road condition along a path of travel of the vehicle. For example, the vehicle control system determines a road condition along a path of travel of the vehicle, such as traffic conditions or road construction, when suggesting routes and providing real-time information on traffic and road closures and updating the vehicle's ETA.⁶	The '239B Accused Instrumentalities perform the method of claim 1 as described above. The vehicle control system determines relevant information other than the persona of the selected vehicle occupant and the vehicle-related information, the relevant information comprising one or more of a persona of a selected person not currently in the vehicle, a message from a friend or family member of the selected vehicle occupant, a current activity of the friend and/or family member, a current location of the friend or family member near the vehicle and/or the vehicle's path of travel, and a road condition along a path of travel of the vehicle. For example, the vehicle control system determines a road condition along a path of travel of the vehicle, such as traffic conditions or road construction, when suggesting routes and providing real-time information on traffic and road closures and updating the vehicle's ETA.⁶

⁶ See, e.g., <https://www.dorianford.com/ford-navigation-system#:~:text=Personalized%20Navigation%20with%20Real%2DTime,suggestions%20based%20on%20past%20trips;https://media.ford.com/content/fordmedia/feu/en/news/2020/09/04/ford-next-generation-sync-technical-briefing.html#:~:text=Debuting%20in%20the%20all%2Delectric,recommendations%20based%20upon%20previous%20journeys;https://www.ford.com/support/how-tos/sync-4/how-do-i-use-the-sync-4-technology-navigation-systems/#:~:text=Support%3ESYNC%3ESYNC%204%3E,trips%20has%20changed%20as%20well;https://www.ford.com/technology/connected-navigation/;https://www.prestonford.com/blogs/3406/ford-sync-4/#:~:text=Navigation%20and%20Routing,step%20ahead%20on%20the%20road.>

EXHIBIT C4 - U.S. PATENT 9,082,239

Infringement Claim Chart

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	a message from a friend or family member of the selected vehicle occupant, a current activity of the friend and/or family member, a current location of the friend or family member near the vehicle and/or the vehicle's path of travel, and a road condition along a path of travel of the vehicle.	See <i>also</i> Claim 1, Row 1C.
Row	Claim 7	
7	The method of claim 1, wherein the maintaining of the persona comprises collecting information from one or more vehicle sensors and/or from a remote information source, wherein the microprocessor executable vehicle control system, based on information received from a sensor identifies and/or distinguishes the selected vehicle occupant's clothing, held object and/or object in the possession of the selected vehicle occupant, and wherein the action is based on the identified and/or distinguished clothing, held object and/or object in the possession of the selected vehicle occupant. For example, the instructions comprise collecting information from one or more vehicle sensors, through Bluetooth or Wi-Fi connections, which incorporate a sensor including an antenna, RF module, and other components responsible for detecting signals. The vehicle control system comprises instructions to identify the vehicle occupant's mobile device, which is a held object and/or object in the possession of the vehicle occupant based on information received from the vehicle sensor associated with Bluetooth and Wi-Fi signals. The vehicle control	The '239B Accused Instrumentalities perform the method of claim 1 as described above. The profile identification module of the '239B Accused Instrumentalities comprises instructions to maintain the persona, which comprises collecting information from one or more vehicle sensors and/or from a remote information source, wherein the microprocessor executable vehicle control system, based on information received from a sensor identifies and/or distinguishes the selected vehicle occupant's clothing, held object and/or object in the possession of the selected vehicle occupant, and wherein the action is based on the identified and/or distinguished clothing, held object and/or object in the possession of the selected vehicle occupant. For example, the instructions comprise collecting information from one or more vehicle sensors, through Bluetooth or Wi-Fi connections, which incorporate a sensor including an antenna, RF module, and other components responsible for detecting signals. The vehicle control system comprises instructions to identify the vehicle occupant's mobile device, which is a held object and/or object in the possession of the vehicle occupant based on information received from the vehicle sensor associated with Bluetooth and Wi-Fi signals. The vehicle control

EXHIBIT C4 - U.S. PATENT 9,082,239 Infringement Claim Chart

U.S. Patent 9,082,239		Ford Infringing Activities
		system performs an action based on the vehicle occupant's mobile device, such as suggesting that the vehicle occupant place a phone call to a person on the occupant's contact list.⁷ <i>See also</i> Claim 1, Rows 1A, 1C, and 1D.
Row	Claim 8	
8A	A vehicle, comprising: a microprocessor executable profile identification module operable to maintain a persona of a selected vehicle occupant, wherein the persona comprises one or more of bioinformatics, medical information, driving history, and/or browsed content. For example, the profile identification module of '239B Accused Instrumentalities maintains a persona of a vehicle occupant that may include, for example, personal information (e.g., name, home address, personal and business contacts, phone call data), private information, driving history, and/or travel information. ⁹	The '239B Accused Instrumentalities include a vehicle comprising a microprocessor⁸ executable profile identification module operable to maintain a persona of a selected vehicle occupant, wherein the persona comprises one or more of bioinformatics, medical information, driving history, personal information, private information, travel information, and Internet browsing history and/or browsed content. For example, the profile identification module of '239B Accused Instrumentalities maintains a persona of a vehicle occupant that may include, for example, personal information (e.g., name, home address, personal and business contacts, phone call data), private information, driving history, and/or travel information.⁹

⁷ See, e.g., https://www.ford.com/support/how-tos/sync/getting-started-with-sync/how-do-i-create-a-personal-profile-with-sync/#:~:text=to%20Intelligent%20Suggestions,-,These%20are%20suggestions%20that%20will%20appear%20on%20the%20SYNC%20screen,Personal%20Profiles%20section%20under%20Settings;https://media.ford.com/content/fordmedia/feu/en/news/2020/09/04/ford-next-generation-sync-technical-briefing.html#:~:text=Debuting%20in%20the%20all%20Electric,recommendations%20based%20upon%20previous%20journeys;https://www.ford.com/support/how-tos/sync/sync-4a/what-personal-data-does-sync-4a-collect-to-customize-suggestions/#:~:text=With%20your%20consent%20C%20the%20SYNC,are%20compatible%20with%20all%20phones;https://www.fordservicecontent.com/Ford_Content/vdirtsnet/OwnerManual/Home/Content?variantid=9193&languageCode=en&countryCode=USA&Uid=G2322007&ProcUid=G2322008&userMarket=GBR&div=f&vFilteringEnabled=False&buildtype=web.

⁸ Any reference to a "microprocessor" or "processor" in these contentions includes one or more processors operating individually or in combination to perform the specified claim limitation.

⁹ See, e.g., <https://www.youtube.com/watch?v=h3457G5mWF0>; <https://www.ford.com/support/how-tos/sync/sync-4a/what-personal-data-does-sync-4a-collect-to-customize-suggestions/>;

EXHIBIT C4 - U.S. PATENT 9,082,239

Infringement Claim Chart

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information, driving history, personal information, private information, travel information, and Internet browsing history and/or browsed content; and	<i>See also</i> Claim 1, Row 1A.
8B a microprocessor executable vehicle control system operable to: determine vehicle-related information, wherein vehicle related information comprises one or more of vehicle context, state, external surroundings, location, past, current, and/or intended path of travel, waypoint, and destination. For example, the vehicle control system of the '239B Accused Instrumentalities determines vehicle-related information such as vehicle state, location, past, current, and/or intended path of travel, destination, and external surroundings (e.g., traffic) in connection with navigation guidance. ¹⁰	The microprocessor executable vehicle control system of the '239B Accused Instrumentalities is operable to determine vehicle-related information, wherein vehicle related information comprises one or more of vehicle context, state, external surroundings, location, past, current, and/or intended path of travel, waypoint, and destination. For example, the vehicle control system of the '239B Accused Instrumentalities determines vehicle-related information such as vehicle state, location, past, current, and/or intended path of travel, destination, and external surroundings (e.g., traffic) in connection with navigation guidance. ¹⁰ <i>See also</i> Claim 1, Row 1B.

https://www.fordservicecontent.com/Ford_Content/vdirsnet/OwnerManual/Home/Content?variantid=9193&languageCode=en&countryCode=USA&Uid=G2322007&ProcUid=G2322008&userMarket=GBR&div=f&vFilteringEnabled=False&buildtype=web;briefing.html#:~:text=Debuting%20in%20the%20all%20Electric,recommendations%20based%20upon%20previous%20journeys;https://www.ford.com/support/how-tos/sync/getting-started-with-sync/how-do-i-create-a-personal-profile-with-sync/#:~:text=to%20Intelligent%20Suggestions.-,These%20are%20suggestions%20that%20will%20appear%20on%20the%20SYNC%20screen,Personal%20Profiles%20section%20under%20Settings;https://www.ford.com/help/privacy/#connectedvehicleprivacynotice;https://www.dorianford.com/ford-navigation-system#:~:text=Personalized%20Navigation%20with%20Real%20Time,suggestions%20based%20on%20past%20trips.
¹⁰ See, e.g., <https://www.ford.com/technology/connected-navigation/>; <https://www.ford.com/help/privacy/#connectedvehicleprivacynotice;https://www.ford.com/support/how-tos/sync/sync-4/how-do-i-use-the-sync-4-technology-navigation-systems/#:~:text=Support%3ESYNC%3ESYNC%204%3E,rips%20has%20changed%20as%20well.>

EXHIBIT C4 - U.S. PATENT 9,082,239

Infringement Claim Chart

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of travel, waypoint, and destination;	
8C based on the persona of the selected vehicle occupant and the vehicle-related information, determine a type of assistance to provide the selected vehicle occupant, the type of assistance not being based on or in response to a preceding request of the selected vehicle occupant; and	The microprocessor executable vehicle control system of the '239B Accused Instrumentalities, based on the persona of the selected vehicle occupant and the vehicle-related information, determines a type of assistance to provide the selected vehicle occupant, the type of assistance not being based on or in response to a preceding request of the selected vehicle occupant. For example, the vehicle control system determines to proactively suggest actions, such as to call a contact, to apply a climate setting, to listen to media, to navigate to a particular destination, or suggest a search for parking or electric vehicle charging locations based on persona information, such as the occupant's habits and schedule. In determining the type of assistance to provide, the vehicle control system utilizes vehicle-related information, such as its external surroundings; location; past, current, and/or intended path of travel; and/or destination, and the persona it maintains for the selected vehicle occupant, such as information about contacts, call history, personal habits or preferences and/or frequently visited locations. The assistance is not based on a specific request made by the vehicle occupant at the time the assistance is offered.¹¹

¹¹ See e.g., <https://www.ford.com/technology/connected-navigation/>; <https://www.ford.com/help/privacy/#connectedvehicleprivacynotice>; https://www.fordservicecontent.com/Ford_Content/vdirtsnet/OwnerManual/Home/Content?variantid=7748&languageCode=en&countryCode=USA&moidRef=G2128011&Uid=G2209847&ProcUid=G2167905&userMarket=CAN&div=f&vFilteringEnabled=False&buildtype=web; [https://www.ford.com/support/how-tos/sync-4/how-do-i-use-the-sync-4-technology-navigation-systems/#:~:text=Support%3ESYNC%204%3E,trips%20has%20changed%20as%20well](https://www.ford.com/support/how-tos/sync-4/how-do-i-use-the-sync-4-technology-navigation-systems/#:~:text=Support%3ESYNC%204%3E,trips%20has%20changed%20as%20well;); <https://www.youtube.com/watch?v=h3457G5mWF0>; [https://www.ford.com/support/how-tos/sync/sync-4a/what-personal-data-does-sync-4a-collect-to-customize-suggestions/#:~:text=With%20your%20consent%2C%20the%20SYNC,are%20compatible%20with%20all%20phones](https://www.ford.com/support/how-tos/sync/sync-4a/what-personal-data-does-sync-4a-collect-to-customize-suggestions/#:~:text=With%20your%20consent%2C%20the%20SYNC,are%20compatible%20with%20all%20phones;); [https://www.willisford.com/ford-ai-driving-experience.htm#:~:text=Personalized%20In%20Car%20Experience,latest%20features%20and%20security%20patches](https://www.willisford.com/ford-ai-driving-experience.htm#:~:text=Personalized%20In%20Car%20Experience,latest%20features%20and%20security%20patches;); [https://media.ford.com/content/fordmedia/feu/en/news/2020/09/04/ford-next-generation-sync-technical-briefing.html#:~:text=Debuting%20in%20the%20all%20Electric,recommendations%20based%20upon%20previous%20journeys](https://media.ford.com/content/fordmedia/feu/en/news/2020/09/04/ford-next-generation-sync-technical-briefing.html#:~:text=Debuting%20in%20the%20all%20Electric,recommendations%20based%20upon%20previous%20journeys;); <https://www.ford.com/support/how-tos/sync/getting-started-with-sync/how-do-i-create-a-personal-profile-with->

EXHIBIT C4 - U.S. PATENT 9,082,239

Infringement Claim Chart

U.S. Patent 9,082,239	Ford Infringing Activities
	<i>See also</i> Claim 1, Row 1C.
8D perform an action assisting the selected vehicle occupant, the action being one or more of providing a suggestion or recommendation to the selected vehicle occupant, adding an entry into the selected vehicle occupant's electronic calendar, providing a notification to the selected vehicle occupant regarding an incoming message, call or action of a person, and/or sending a message to a person at a waypoint or destination of the vehicle regarding an arrival time of the vehicle. For example, the vehicle control system may provide suggestions and recommendations of destinations and routes to the selected vehicle occupant, suggestions and recommendations to call a contact to the selected vehicle occupant, suggestions and recommendations to apply a climate setting to the selected vehicle occupant, suggestions and recommendations to listen to media to the selected vehicle occupant, and/or a notification to the selected vehicle occupant regarding an incoming message, call or action of a person. ¹²	The microprocessor executable vehicle control system of the '239B Accused Instrumentalities performs an action assisting the selected vehicle occupant, the action being one or more of providing a suggestion or recommendation to the selected vehicle occupant, providing a reminder to the selected vehicle occupant, scheduling an activity involving the selected vehicle occupant, purchasing an item on line for the selected vehicle occupant, adding an entry into the selected vehicle occupant's electronic calendar, providing a notification to the selected vehicle occupant regarding an incoming message, call or action of a person, and/or sending a message to a person at a waypoint or destination of the vehicle regarding an arrival time of the vehicle. For example, the vehicle control system may provide suggestions and recommendations of destinations and routes to the selected vehicle occupant, suggestions and recommendations to call a contact to the selected vehicle occupant, suggestions and recommendations to apply a climate setting to the selected vehicle occupant, suggestions and recommendations to listen to media to the selected vehicle occupant, and/or a notification to the selected vehicle occupant regarding an incoming message, call or action of a person. ¹²

[sync/#:~:text=to%20Intelligent%20Suggestions.-,These%20are%20suggestions%20that%20will%20appear%20on%20the%20SYNC%20screen,Personal%20Profiles%20section%20under%20Setting%20s;https://www.dorianford.com/ford-navigation-system#:~:text=Personalized%20Navigation%20with%20Real%2DTime,suggestions%20based%20on%20past%20trips;https://www.prestonford.com/blogs/3406/ford-sync-4/#:~:text=Navigation%20and%20Routing,step%20ahead%20on%20the%20road.](#)¹² See, e.g., <https://www.dorianford.com/ford-navigation-system#:~:text=Personalized%20Navigation%20with%20Real%2DTime,suggestions%20based%20on%20past%20trips;https://www.ford.com/support/how-tos/sync/getting-started-with-sync/how-do-i-create-a-personal-profile-with-sync/#:~:text=to%20Intelligent%20Suggestions.-,These%20are%20suggestions%20that%20will%20appear%20on%20the%20SYNC%20screen,Personal%20Profiles%20section%20under%20Setting%20s;https://media.ford.com/content/fordmedia/feu/en/news/2020/09/04/ford-next-generation-sync-technical->

EXHIBIT C4 - U.S. PATENT 9,082,239 Infringement Claim Chart

U.S. Patent 9,082,239		Ford Infringing Activities
	electronic calendar, providing a notification to the selected vehicle occupant regarding an incoming message, call or action of a person, and/or sending a message to a person at a waypoint or destination of the vehicle regarding an arrival time of the vehicle.	See <i>also</i> Claim 1, Row 1D.
Row	Claim 12	
12	The vehicle of claim 8, wherein the vehicle control system is further operable to determine relevant information other than the persona of the selected vehicle occupant and the vehicle-related information, the relevant information comprising one or more of a persona of a person not currently in the vehicle, a message from a friend or family member of the selected vehicle, a message from a friend or family member of the selected vehicle, a current activity of the friend and/or family member, a current location of the friend or family member near the vehicle and/or the vehicle's path of travel, and a road condition along a path of travel of the vehicle. For example, the vehicle control system determines a road condition along a path of travel of the vehicle, such as traffic conditions or road construction, when suggesting	The '239B Accused Instrumentalities comprise the vehicle of claim 8 as described above. The microprocessor-executable vehicle control system of the '239B Accused Instrumentalities is operable to determine relevant information other than the persona of the selected vehicle occupant and the vehicle-related information, the relevant information comprising one or more of a persona of a selected person not currently in the vehicle, a message from a friend or family member of the selected vehicle occupant, a current activity of the friend and/or family member, a current location of the friend or family member near the vehicle and/or the vehicle's path of travel, and a road condition along a path of travel of the vehicle. For example, the vehicle control system determines a road condition along a path of travel of the vehicle, such as traffic conditions or road construction, when suggesting

[briefing.html#:~:text=Debuting%20in%20the%20all%20Electric,recommendations%20based%20upon%20previous%20journeys;https://www.willisford.com/ford-ai-driving-experience.htm#:~:text=Personalized%20in%20the%20Car%20Experience,latest%20features%20and%20security%20patches;https://www.ford.com/support/how-tos/sync/sync-4a/what-personal-data-does-sync-4a-collect-to-customize-suggestions/#:~:text=With%20your%20consent%20the%20SYNC,are%20compatible%20with%20all%20phones;https://www.youtube.com/watch?v=h3457G5mWF0;https://www.prestonford.com/blogs/3406/ford-sync-4/#:~:text=Navigation%20and%20Routing,step%20ahead%20on%20the%20road.](https://www.willisford.com/ford-ai-driving-experience.htm#:~:text=Personalized%20in%20the%20Car%20Experience,latest%20features%20and%20security%20patches,suggestions/#:~:text=With%20your%20consent%20the%20SYNC,are%20compatible%20with%20all%20phones,https://www.youtube.com/watch?v=h3457G5mWF0;https://www.prestonford.com/blogs/3406/ford-sync-4/#:~:text=Navigation%20and%20Routing,step%20ahead%20on%20the%20road.)

EXHIBIT C4 - U.S. PATENT 9,082,239 Infringement Claim Chart

U.S. Patent 9,082,239		Ford Infringing Activities
	occupant, a current activity of the friend and/or family member, a current location of the friend or family member near the vehicle and/or the vehicle's path of travel, and a road condition along a path of travel of the vehicle.	routes and providing real-time information on traffic and road closures and updating the vehicle's ETA. ¹³ <i>See also</i> Claim 1, Row 1C; Claim 5.
Row	Claim 15	
15A	A tangible and non-transient computer readable medium comprising microprocessor executable instructions that, when executed, perform functions comprising: maintaining a persona of a selected vehicle occupant, wherein the	The '239B Accused Instrumentalities include a tangible and non-transient computer readable medium comprising microprocessor ¹⁴ executable instructions that, when executed, perform functions comprising maintaining a persona of a selected vehicle occupant, wherein the persona comprises one or more of bioinformatics, medical information, driving history, personal information, private information, travel information, and Internet browsing history and/or browsed content. For example, the profile identification module of '239B Accused Instrumentalities maintains a persona of a vehicle occupant that may include, for example, personal information (e.g., name, home address, personal and

¹³ See, e.g., <https://www.dorianford.com/ford-navigation-system#:~:text=Personalized%20Navigation%20with%20Real%2DTime,suggestions%20based%20on%20past%20trips;https://media.ford.com/content/fordmedia/feu/en/news/2020/09/04/ford-next-generation-sync-technical-briefing.html#:~:text=Debuting%20in%20the%20all%2Delectric,recommendations%20based%20upon%20previous%20journeys;https://www.ford.com/support/how-tos/sync/sync-4/how-do-i-use-the-sync-4-technology-navigation-systems/#:~:text=Support%3ESYNC%3ESYNC%204%3E,trips%20has%20changed%20as%20well;https://www.ford.com/technology/connected-navigation/;https://www.prestonford.com/blogs/3406/ford-sync-4/#:~:text=Navigation%20and%20Routing,step%20ahead%20on%20the%20road.>

¹⁴ Any reference to a “microprocessor” or “processor” in these contentions includes one or more processors operating individually or in combination to perform the specified claim limitation.

EXHIBIT C4 - U.S. PATENT 9,082,239 Infringement Claim Chart

U.S. Patent 9,082,239		Ford Infringing Activities
	persona comprises one or more of bioinformatics, medical information, driving history, personal information, private information, travel information, and Internet browsing history and/or browsed content;	business contacts, phone call data), private information, driving history, and/or travel information. ¹⁵ <i>See also</i> Claim 1, Row 1A.
15B	determining vehicle-related information, wherein vehicle related information comprises one or more of vehicle context, state, external surroundings, location, past, current, and/or intended path of travel, waypoint, and destination. For example, the vehicle control system of the '239B Accused Instrumentalities determines vehicle-related information such as vehicle state, location, past, current,	The microprocessor executable instructions of the '239B Accused Instrumentalities, when executed, determine vehicle-related information, wherein vehicle related information comprises one or more of vehicle context, state, external surroundings, location, past, current, and/or intended path of travel, waypoint, and destination. For example, the vehicle control system of the '239B Accused Instrumentalities determines vehicle-related information such as vehicle state, location, past, current,

¹⁵ See, e.g., <https://www.youtube.com/watch?v=h3457G5mWF0>; <https://www.ford.com/support/how-tos/sync/sync-4a/what-personal-data-does-sync-4a-collect-to-customize-suggestions/>; [https://www.fordservicecontent.com/Ford_Content/vdirsnet/OwnerManual/Home/Content?variantid=9193&languageCode=en&countryCode=USA](https://www.fordservicecontent.com/Ford_Content/vdirsnet/OwnerManual/Home/Content?variantid=9193&languageCode=en&countryCode=USA&Uid=G2322007&ProcUid=G2322008&userMarket=GBR&div=f&vFilteringEnabled=False&buildtype=web); <https://media.ford.com/content/fordmedia/feu/en/news/2020/09/04/ford-next-generation-sync-technical-briefing.html#:~:text=Debuting%20in%20the%20all%20Electric,recommendations%20based%20upon%20previous%20journeys>; <https://www.ford.com/support/how-tos/sync/getting-started-with-sync/how-do-i-create-a-personal-profile-with-sync/#:~:text=to%20Intelligent%20Suggestions>; <https://www.ford.com/help/privacy/#connectedvehicleprivacynotice>; <https://www.dorianford.com/ford-navigation-system#:~:text=Personalized%20Navigation%20with%20Real%20Time,suggestions%20based%20on%20past%20trips>.

EXHIBIT C4 - U.S. PATENT 9,082,239

Infringement Claim Chart

U.S. Patent 9,082,239	Ford Infringing Activities
	and/or intended path of travel, destination, and external surroundings (e.g., traffic) in connection with navigation guidance.¹⁶ <i>See also</i> Claim 1, Row 1B.
15C based on the persona of the selected vehicle occupant and the vehicle-related information, determining a type of assistance to provide the selected vehicle occupant, the type of assistance not being based on or in response to a preceding request of the selected vehicle occupant; and	The microprocessor executable instructions of the '239B Accused Instrumentalities, when executed, determine, based on the persona of the selected vehicle occupant and the vehicle-related information, a type of assistance to provide the selected vehicle occupant, the type of assistance not being based on or in response to a preceding request of the selected vehicle occupant. For example, the vehicle control system determines to proactively suggest actions, such as to call a contact, to apply a climate setting, to listen to media, to navigate to a particular destination, or suggest a search for parking or electric vehicle charging locations based on persona information, such as the occupant's habits and schedule. In determining the type of assistance to provide, the vehicle control system utilizes vehicle-related information, such as its external surroundings; location; past, current, and/or intended path of travel; and/or destination, and the persona it maintains for the selected vehicle occupant, such as information about contacts, call history, personal habits or preferences and/or frequently visited locations. The assistance is not based on a specific request made by the vehicle occupant at the time the assistance is offered.¹⁷

¹⁶ See, e.g., <https://www.ford.com/technology/connected-navigation/>; <https://www.ford.com/help/privacy/#connectedvehicleprivacynotice>; <https://www.ford.com/support/how-tos/sync-4/how-do-i-use-the-sync-4-technology-navigation-systems/#:-:text=Support%3ESYNC%204%3E,trips%20has%20changed%20as%20well>.

¹⁷ See e.g., <https://www.ford.com/technology/connected-navigation/>; <https://www.ford.com/help/privacy/#connectedvehicleprivacynotice>; https://www.fordservicecontent.com/Ford_Content/vdirtsnet/OwnerManual/Home/Content?variantid=7748&languageCode=en&countryCode=USA&moidRef=G2128011&Uid=G2209847&ProcUid=G2167905&userMarket=CAN&div=f&vFilteringEnabled=False&buildtype=web; <https://www.ford.com/support/how-tos/sync-4/how-do-i-use-the-sync-4-technology-navigation-systems/#:-:text=Support%3ESYNC%204%3E,trips%20has%20changed%20as%20well>; <https://www.youtube.com/watch?v=h3457G5mWF0>; <https://www.ford.com/support/how-tos/sync/sync-4a/what-personal-data-does-sync-4a-collect->

EXHIBIT C4 - U.S. PATENT 9,082,239

Infringement Claim Chart

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	See <i>also</i> Claim 1, Row 1C.
15D performing an action assisting the vehicle occupant, the action being one or more of providing a suggestion or recommendation to the selected vehicle occupant, providing a reminder to the selected vehicle occupant, adding an entry into the selected vehicle occupant's electronic calendar, providing a notification to the selected vehicle occupant regarding an incoming message, call or action of a person, and/or sending a message to a person at a waypoint or destination of the vehicle regarding an arrival time of the vehicle. For example, the vehicle control system may provide suggestions and recommendations of destinations and routes to the selected vehicle occupant, suggestions and recommendations to call a contact to the selected vehicle occupant, suggestions and recommendations to apply a climate setting to the selected vehicle occupant, suggestions and	The microprocessor executable instructions of the '239B Accused Instrumentalities, when executed, perform an action assisting the vehicle occupant, the action being one or more of providing a suggestion or recommendation to the selected vehicle occupant, providing a reminder to the selected vehicle occupant, scheduling an activity involving the selected vehicle occupant, purchasing an item on line for the selected vehicle occupant, adding an entry into the selected vehicle occupant's electronic calendar, providing a notification to the selected vehicle occupant regarding an incoming message, call or action of a person, and/or sending a message to a person at a waypoint or destination of the vehicle regarding an arrival time of the vehicle. For example, the vehicle control system may provide suggestions and recommendations of destinations and routes to the selected vehicle occupant, suggestions and recommendations to call a contact to the selected vehicle occupant, suggestions and recommendations to apply a climate setting to the selected vehicle occupant, suggestions and

to-customize-suggestions/#:~:text=With%20your%20consent%2C%20the%20SYNC,are%20compatible%20with%20all%20phones;

EXHIBIT C4 - U.S. PATENT 9,082,239 Infringement Claim Chart

U.S. Patent 9,082,239		Ford Infringing Activities
	regarding an incoming message, call or action of a person, and/or sending a message to a person at a waypoint or destination of the vehicle regarding an arrival time of the vehicle.	recommendations to listen to media to the selected vehicle occupant, and/or a notification to the selected vehicle occupant regarding an incoming message, call or action of a person. ¹⁸ <i>See also</i> Claim 1, Row 1D.
Row	Claim 19	
19	The computer readable medium of claim 15, further comprising the function of determining relevant information other than the persona of the selected vehicle occupant and the vehicle-related information, the relevant information comprising one or	The '239B Accused Instrumentalities comprise the computer readable medium of claim 15 as described above. The computer readable medium of the '239B Accused Instrumentalities contains instructions that, when executed, cause the '239B Accused Instrumentalities to determine vehicle-related information comprising at least one of a current and/or future vehicle location and path of vehicle travel and wherein the action is providing a notification of an instant message, email, voice mail from, and/or missed phone call from, current activity of and/or location of a friend. For example, the vehicle

¹⁸ See, e.g., [16](https://www.dorianford.com/ford-navigation-system#:~:text=Personalized%20Navigation%20with%20Real%2DTime,suggestions%20based%20on%20past%20trips;https://www.ford.com/support/how-tos/sync/getting-started-with-sync/how-do-i-create-a-personal-profile-with-sync/#:~:text=to%20Intelligent%20Suggestions,-.These%20are%20suggestions%20that%20will%20appear%20on%20the%20SYNC%20screen,Personal%20Profiles%20section%20under%20Settings;https://media.ford.com/content/fordmedia/feu/en/news/2020/09/04/ford-next-generation-sync-technical-briefing.html#:~:text=Debuting%20in%20the%20all%2DElectric,recommendations%20based%20upon%20previous%20journeys;https://www.willisford.com/ford-ai-driving-experience.htm#:~:text=Personalized%20In%20Car%20Experience,latest%20features%20and%20security%20patches;https://www.ford.com/support/how-tos/sync/sync-4a/what-personal-data-does-sync-4a-collect-to-customize-suggestions/#:~:text=With%20your%20consent%20the%20SYNC,are%20compatible%20with%20all%20phones;https://www.youtube.com/watch?v=h3457G5mWF0;https://www.prestonford.com/blogs/3406/ford-sync-4/#:~:text=Navigation%20and%20Routing,step%20ahead%20on%20the%20road.</p>
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EXHIBIT C4 - U.S. PATENT 9,082,239

Infringement Claim Chart

U.S. Patent 9,082,239		Ford Infringing Activities
	more of a persona of a selected person not currently in the vehicle, a message from a friend or family member of the selected vehicle occupant, a current activity of the friend and/or family member, a current location of the friend or family member near the vehicle and/or the vehicle's path of travel, and a road condition along a path of travel of the vehicle.	control system determines a road condition along a path of travel of the vehicle, such as traffic conditions or road construction, when suggesting routes and providing real-time information on traffic and road closures and updating the vehicle's ETA. ¹⁹ <i>See also</i> Claim 1, Row 1C; Claim 5; Claim 12.
Row	Claim 21	
21	The computer readable medium of claim 15, wherein the maintaining of the persona comprises collecting information from one or more vehicle sensors and/or from a remote information source, wherein the microprocessor	The '239B Accused Instrumentalities comprise the computer readable medium of claim 15 as described above. The computer readable medium of the '239B Accused Instrumentalities contains instructions that, when executed, cause the '239B Accused Instrumentalities to maintain a persona in a manner that comprises collecting information from one or more vehicle sensors and/or from a remote information source, wherein the microprocessor executable vehicle control system, based on information received

¹⁹ See, e.g., <https://www.dorianford.com/ford-navigation-system#:~:text=Personalized%20Navigation%20with%20Real%2DTime,suggestions%20based%20on%20past%20trips;https://media.ford.com/content/fordmedia/feu/en/news/2020/09/04/ford-next-generation-sync-technical-briefing.html#:~:text=Debuting%20in%20the%20all%2Delectric,recommendations%20based%20upon%20previous%20journeys;https://www.ford.com/support/how-tos/sync/sync-4/how-do-i-use-the-sync-4-technology-navigation-systems/#:~:text=Support%3ESYNC%3ESYNC%204%3E,trips%20has%20changed%20as%20well;https://www.ford.com/technology/connected-navigation/;https://www.prestonford.com/blogs/3406/ford-sync-4/#:~:text=Navigation%20and%20Routing,step%20ahead%20on%20the%20road.>

EXHIBIT C4 - U.S. PATENT 9,082,239

Infringement Claim Chart

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	executable vehicle control system, based on information received from a sensor identifies and/or distinguishes the selected vehicle occupant's clothing, held object and/or object in the possession of the selected vehicle occupant, and wherein the action is based on the identified and/or distinguished clothing, held object and/or object in the possession of the selected vehicle occupant. For example, the instructions comprise collecting information from one or more vehicle sensors, through Bluetooth or Wi-Fi connections, which incorporate a sensor including an antenna, RF module, and other components responsible for detecting signals.	from a sensor identifies and/or distinguishes the selected vehicle occupant's clothing, held object and/or object in the possession of the selected vehicle occupant, and wherein the action is based on the identified and/or distinguished clothing, held object and/or object in the possession of the selected vehicle occupant. For example, the instructions comprise collecting information from one or more vehicle sensors, through Bluetooth or Wi-Fi connections, which incorporate a sensor including an antenna, RF module, and other components responsible for detecting signals.
	wherein the action is based on the identified and/or distinguished clothing, held object and/or object in the possession of the selected vehicle occupant.	The vehicle control system comprises instructions to identify the vehicle occupant's mobile device, which is a held object and/or object in the possession of the vehicle occupant based on information received from the vehicle sensor associated with Bluetooth and Wi-Fi signals. The vehicle control system performs an action based on the vehicle occupant's mobile device, such as suggesting that the vehicle occupant place a phone call to a person on the occupant's contact list. ²⁰
Row	Claim 29	<i>See also</i> Claim 1, Rows 1A, 1C, and 1D; Claim 7.
29	The method of claim 1, wherein the vehicle control system translates signage located outside	The '239B Accused Instrumentalities perform the method of claim 1 as described above.

²⁰ See, e.g., https://www.ford.com/support/how-tos/sync/getting-started-with-sync/how-do-i-create-a-personal-profile-with-sync/#:~:text=to%20Intelligent%20Suggestions,-.These%20are%20suggestions%20that%20will%20appear%20on%20the%20SYNC%20screen,Personal%20Profiles%20section%20under%20Settings.https://media.ford.com/content/fordmedia/feu/en/news/2020/09/04/ford-next-generation-sync-technical-briefing.html#:~:text=Debuting%20in%20the%20all%20Delectric,recommendations%20based%20upon%20previous%20journeys;https://www.ford.com/support/how-tos/sync/sync-4a/what-personal-data-does-sync-4a-collect-to-customize-suggestions/#:~:text=With%20your%20consent%20the%20SYNC,are%20compatible%20with%20all%20phones;https://www.fordservicecontent.com/Ford_Content/vdirtsnet/OwnerManual/Home/Content?variantid=9193&languageCode=en&countryCode=USA&Uid=G2322007&ProcUid=G2322008&userMarket=GBR&div=f&vFilteringEnabled=False&buildtype=web.

EXHIBIT C4 - U.S. PATENT 9,082,239 Infringement Claim Chart

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the vehicle and provides a translated signage message to the selected vehicle occupant.	The vehicle control system of the '239B Accused Instrumentalities translates signage located outside the vehicle and provides a translated signage message to the selected vehicle occupant. For example, the vehicle control system receives input from cameras that detect speed signs and provides a graphical depiction of the speed limit sign to the selected vehicle occupant.²¹ 
Row	Claim 35
35	The method of claim 1, further comprising: determining, by the

²¹ See, e.g., https://www.fordservicecontent.com/Ford_Content/vdirtsnet/OwnerManual/Home/Content?variantid=10119&languageCode=en&countryCode=USA&moidRef=G2128031&Uid=G2409359&ProcUid=G2364810&userMarket=CAN&div=f&vFilteringEnabled=False&buildtype=web;https://www.ford.com/support/how-tos/ford-technology/driver-assist-features/what-is-speed-sign-recognition/.

**EXHIBIT C4 - U.S. PATENT 9,082,239
Infringement Claim Chart**

U.S. Patent 9,082,239	vehicle control system, relevant information other than the persona of the selected vehicle occupant and the vehicle-related information about a point and/or location of interest near the vehicle and/or the vehicle's path of travel, and a location, hours of operation, and/or descriptive information about a vehicle service facility near the vehicle and/or the vehicle's path of travel, and a location, hours of operation, and/or descriptive information about a hotel and/or motel near the vehicle and/or the vehicle's path of travel.
Ford Infringing Activities	The vehicle control system of the '239B Accused Instrumentalities determines relevant information other than the persona of the selected vehicle occupant and the vehicle-related information, the relevant information comprising one or more of a location, hours of operation, and/or descriptive information about a point and/or location of interest near the vehicle and/or the vehicle's path of travel, a location, hours of operation, and/or descriptive information about a vehicle service facility near the vehicle and/or the vehicle's path of travel, and a location, hours of operation, and/or descriptive information about a hotel and/or motel near the vehicle and/or the vehicle's path of travel. For example, the vehicle control system determines relevant information such as the location of a point and/or location of interest near the vehicle and/or the vehicle's path of travel.²²

²² See, e.g.,

https://www.fordservicecontent.com/Ford_Content/vdirsnet/OwnerManual/Home/Content?variantid=8987&languageCode=en&countryCode=USA&moidRef=G2128014&Uid=G2274615&ProcUId=G2164198&userMarket=usa&div=f&vFilteringEnabled=False&buildtype=web;
<https://www.dorianford.com/ford-navigation-system; https://www.ford.com/support/how-tos/sync/sync-4/how-do-i-use-the-sync-4-technology-navigation-systems/#::-:text=Support%3ESYNC%204%3E,trips%20has%20changed%20as%20well.>