Civil Action No. 2:23-cv-00175-JRG
MEL NavIP LLC v. General Motors Company et al.

Exhibit C

U.S. Patent No. 8,649,971 – General Motors Navigation Systems And Software

The following claim chart includes illustrations, diagrams, and references relating to General Motors GMC, Chevrolet, Buick, and Cadillac (collectively referred to as "GM" for brevity herein) vehicles' navigation systems, including the Next-Generation Embedded Navigation system found on GM vehicles' infotainment systems. Various components cited herein are intended to illustrate theories of infringement and are not intended to exclude other components used in GM navigation systems from allegations of infringement, including Maps+. Upon information and belief, including based on public information and information appearing on GM's website, the infringement contentions and evidence of infringement set forth in these charts apply to each GM vehicle equipped with Next-Generation Embedded Navigation, including those identified in Part II of Mel NavIP's Disclosures.

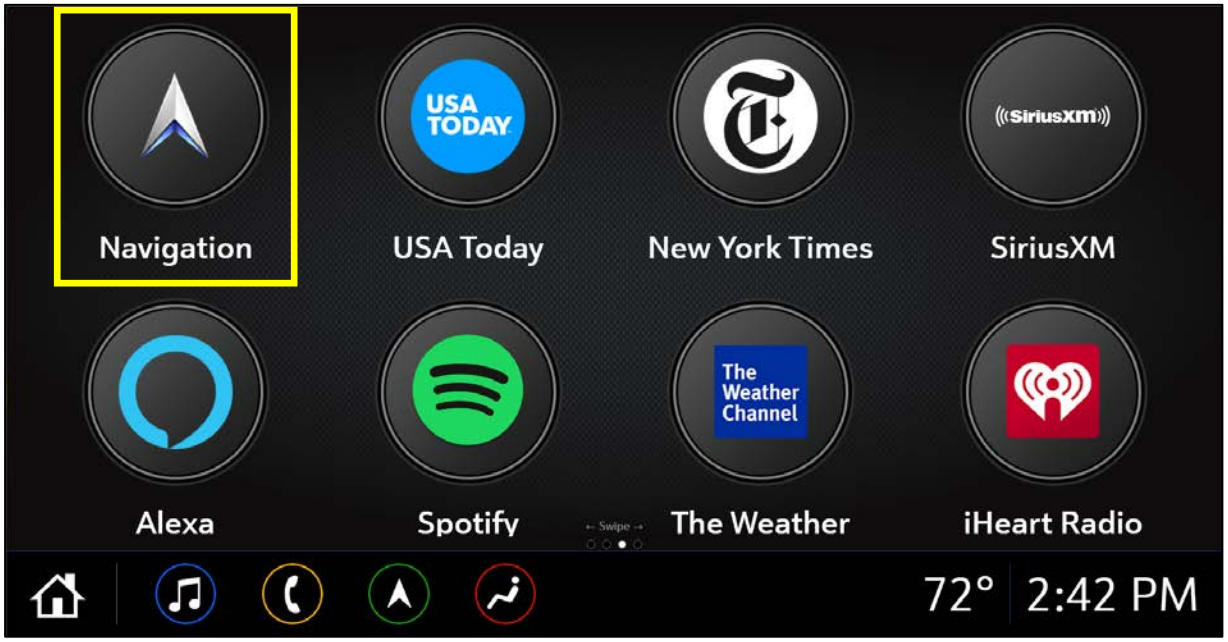
To the extent that multiple cases of infringement are set forth in the below charts, if no reference is made to a specific case with respect to a claim or claim element, the evidence of infringement applies to all cases of infringement set forth for that claim, or the claim(s) on which that claim depends.

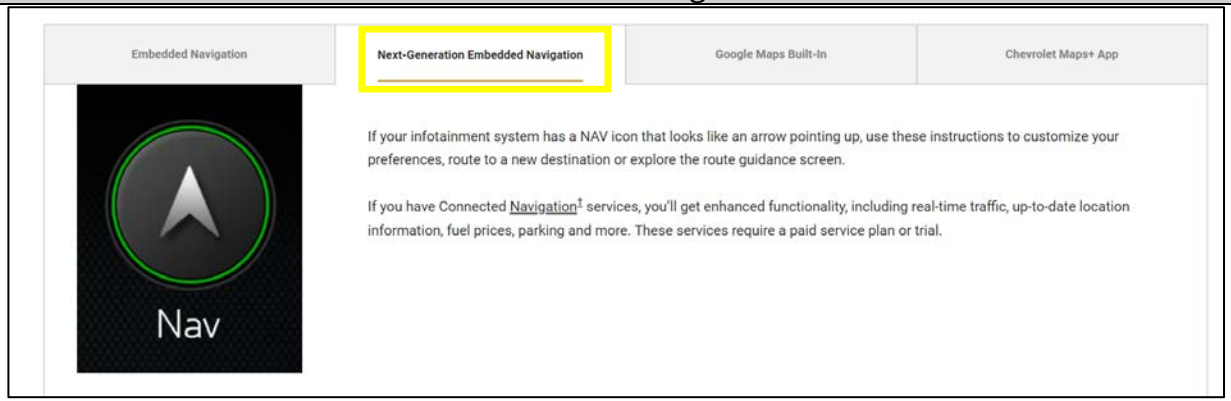
To the extent there are any differences between the accused instrumentalities and the following claim elements, any such differences are insubstantial, and the claim(s) is infringed under the doctrine of equivalents.

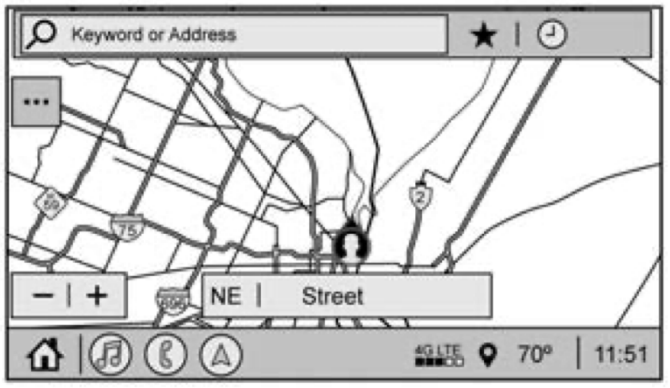
Claim	Claim Element	Evidence of Infringement
1[a]	A navigation device comprising:	General Motors ("GM") vehicles comprise a navigation device. For example, GM vehicles, including under the Chevrolet, GMC, Buick, and Cadillac brands, have a navigation system, such as Next-Generation Embedded Navigation on the Infotainment 3 Plus system (also referred to as the Next Generation Infotainment system) found in the, *inter alia*, 2022 Chevrolet Silverado 2500 HD. *See, e.g.*, Next-Generation Embedded Navigation:

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Claim	Claim Element	Evidence of Infringement
		CHEVROLET  … 2022 SILVERADO HD … SPECIFICATIONS (CONTINUED) ● STANDARD ○ AVAILABLE – NOT AVAILABLE WT CUSTOM LT LTZ HIGH COUNTRY ENTERTAINMENT … Chevrolet Infotainment 3 Plus system with 8-inch diagonal HD color touch-screen, AM/FM stereo, Bluetooth audio streaming[2] for two active devices, voice command pass-through to compatible phone, wireless Apple CarPlay[3] and wireless Android Auto[4] compatibility, available Alexa Built-In,[5] voice recognition and available In-Vehicle Apps[6] (LT requires available Convenience Package II or Advanced Trailering Package) – – ○ ● – 2022 Chevy Silverado HD Brochure at https://www.chevrolet.com/content/dam/chevrolet/na/us/english/index/shopping-tools/download-catalog/08-pdf/2022-chevrolet-silverado-hd-ebrochure.pdf (yellow annotations added) (MEL_GM_TECH_00000020 and MEL_GM_TECH_00000051).

Claim	Claim Element	Evidence of Infringement
		See also:  Chevrolet Infotainment 3 Plus System Demo at https://chevroletdemo.com/invehicleapps (yellow annotations added) (MEL_GM_TECH_00002417). *See also:*

Claim	Claim Element	Evidence of Infringement
		 How to Use Navigation in Your Vehicle, Chevrolet, at https://www.chevrolet.com/support/vehicle/smartphone-connections/navigation/preferences (yellow annotations added) (MEL_GM_TECH_00002430). *See also* GMC Navigation at https://www.gmc.com/support/vehicle/smartphone-connections/navigation/preferences; Buick Navigation at https://www.buick.com/support/vehicle/smartphone-connections/navigation/preferences; and Cadillac Navigation at https://www.cadillac.com/support/vehicle/smartphone-connections/navigation/preferences. *See also:*

Claim	Claim Element	Evidence of Infringement
		Navigation Map View  … **Navigation** **Using the Navigation System** If equipped, launch the Nav application by touching the Nav icon on the Home Page or on the shortcut tray near the bottom of the infotainment display. 2022 Chevrolet Silverado 2500/3500 HD Owner Manual, at pp. 163-164 (available at https://my.chevrolet.com/content/dam/gmownercenter/gmna/dynamic/manuals/2022/chevrolet/silverado/2022-chevrolet-silverado-2500-hd-3500-hd-owners-manual.pdf) (MEL_GM_TECH_00001800-MEL_GM_TECH_00001801).

Claim	Claim Element	Evidence of Infringement
		For example, Next-Generation Embedded Navigation is equipped on and/or available for the exemplary 2022 Chevy Silverado 2500 HD (MEL_GM_TECH_00000020-MEL_GM_TECH_00000060) as well as other GM vehicles with the Infotainment 3 Plus system, including at least the 2022/2023 Chevy Trailblazer (MEL_GM_TECH_00000372-MEL_GM_TECH_00000390 and MEL_GM_TECH_00000755-MEL_GM_TECH_00000773), 2022/2023 Chevy Equinox (MEL_GM_TECH_00000001-MEL_GM_TECH_00000019 and MEL_GM_TECH_00000675-MEL_GM_TECH_00000694), 2022/2023 Chevy Blazer (MEL_GM_TECH_00000310-MEL_GM_TECH_00000331 and MEL_GM_TECH_00000559-MEL_GM_TECH_00000578), 2022/2023 Chevy Traverse (MEL_GM_TECH_00000391-MEL_GM_TECH_00000415 and MEL_GM_TECH_00000774-MEL_GM_TECH_00000798), 2022 Chevy Colorado (MEL_GM_TECH_00000348-MEL_GM_TECH_00000371), 2022/2023 Chevy Bolt EV (MEL_GM_TECH_00000416-MEL_GM_TECH_00000430 and MEL_GM_TECH_00000595-MEL_GM_TECH_00000609), 2022/2023 Chevy Bolt EUV (MEL_GM_TECH_00000332-MEL_GM_TECH_00000347 and MEL_GM_TECH_00000579-MEL_GM_TECH_00000594), 2022/2023 Chevy Malibu (MEL_GM_TECH_00000540-MEL_GM_TECH_00000558 and MEL_GM_TECH_00000695-MEL_GM_TECH_00000713), 2022/2023 Chevy Camaro (MEL_GM_TECH_00000278-MEL_GM_TECH_00000309 and MEL_GM_TECH_00000610-MEL_GM_TECH_00000642), 2022/2023 Chevy Corvette (MEL_GM_TECH_00000431-MEL_GM_TECH_00000460 and MEL_GM_TECH_00000643-MEL_GM_TECH_00000674), 2022 GMC Canyon (MEL_GM_TECH_00000945-MEL_GM_TECH_00000985), 2022 GMC Sierra 1500 Limited (MEL_GM_TECH_00001153-MEL_GM_TECH_00001182), 2022/2023 GMC Sierra 2500 HD/3500 HD (MEL_GM_TECH_00000881-MEL_GM_TECH_00000944 and MEL_GM_TECH_00001183-MEL_GM_TECH_00001246), 2022/2023 GMC Terrain (MEL_GM_TECH_00001072-MEL_GM_TECH_00001152), 2022/2023 GMC Acadia (MEL_GM_TECH_00000986-MEL_GM_TECH_00001071), 2022/2023 Buick Encore GX (MEL_GM_TECH_00000487-MEL_GM_TECH_00000512 and MEL_GM_TECH_00000799-MEL_GM_TECH_00000825), 2022/2023 Buick Envision (MEL_GM_TECH_00000513-MEL_GM_TECH_00000539 and MEL_GM_TECH_00000853-MEL_GM_TECH_00000880), 2022/2023 Buick Enclave (MEL_GM_TECH_00000461-MEL_GM_TECH_00000486 and MEL_GM_TECH_00000826-MEL_GM_TECH_00000852), 2022/2023 Cadillac XT4 (MEL_GM_TECH_00000150-

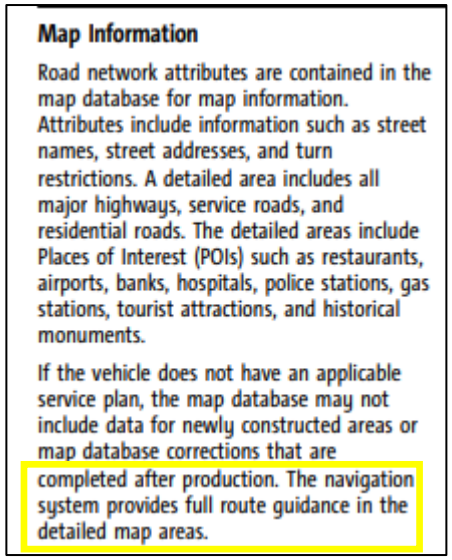
Claim	Claim Element	Evidence of Infringement
		MEL_GM_TECH_00000163 and MEL_GM_TECH_00000237-MEL_GM_TECH_00000250), 2022/2023 Cadillac XT5 (MEL_GM_TECH_00000164-MEL_GM_TECH_00000175 and MEL_GM_TECH_00000251-MEL_GM_TECH_00000263), 2022/2023 Cadillac XT6 (MEL_GM_TECH_00000176-MEL_GM_TECH_00000188 and MEL_GM_TECH_00000264-MEL_GM_TECH_00000277), 2022/2023 Cadillac CT4 (MEL_GM_TECH_00000061-MEL_GM_TECH_00000075 and MEL_GM_TECH_00000189-MEL_GM_TECH_00000202), and 2022/2023 Cadillac CT5 (MEL_GM_TECH_00000094-MEL_GM_TECH_00000110 and MEL_GM_TECH_00000221-MEL_GM_TECH_00000236). *See, generally*, Chevrolet Brochures at https://www.chevrolet.com/download-catalog; GMC Brochures at https://www.gmc.com/download-2022-brochure and https://www.gmc.com/download-2023-brochure; Buick Brochures at https://www.buick.com/download-brochure; and Cadillac Brochures at https://www.cadillac.com/vehicle-brochures.
1[b]	a setting unit configured to set waypoints and a destination;	GM's navigation device comprises a setting unit configured to set waypoints and a destination. For example, GM's navigation device has a setting unit to set waypoints, *e.g.*, stops and/or intermediary destinations on the way to the final destination, and a destination, *e.g.*, a final destination the route is guiding the vehicle to. *See, e.g.*,

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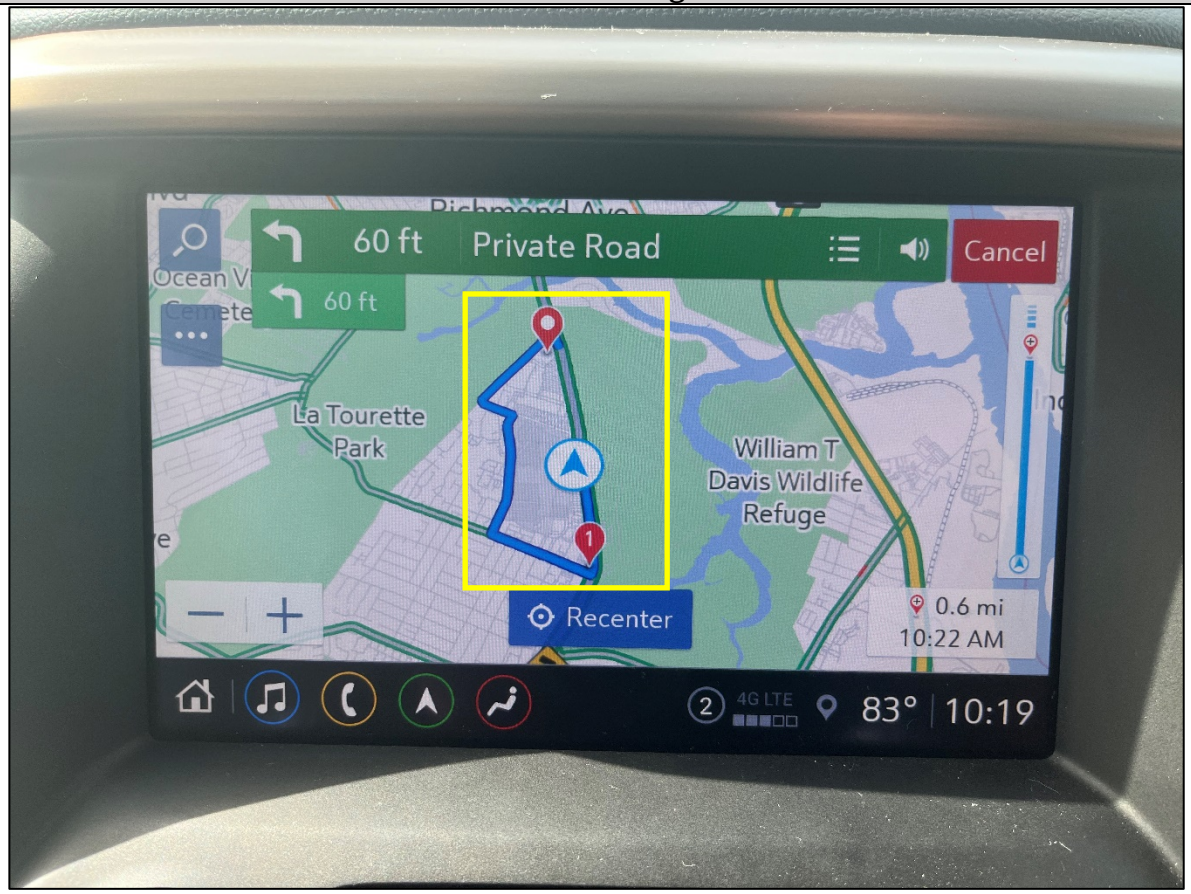
Claim	Claim Element	Evidence of Infringement
		Waypoints Add up to five waypoints, which are additional destinations, along the route. To add an additional stop or waypoint: 1. From active guidance, touch 🔍. 2. Search for the destination using One-Box, Voice search, or the Quick Category icons. 3. Choose search results Along Route, Nearby, or Near Destination. 4. Choose the desired waypoint and touch Add to Trip or replace the current destination by touching New Destination. Route options are not available for waypoints. 2022 Chevrolet Silverado 2500 HD/3500 HD Owner's Manual, at pp. 166-167, at https://www.chevrolet.com/bypass/pcf/gma-content-api/resources/sites/GMA/content/staging/MANUALS/5000/MA5553/en_US/4.0/22_CHEV_Silverado_2500HD_3500HD_OM_en_US_U_84767841C_2022FEB28_3P.pdf (MEL_GM_TECH_00001804- MEL_GM_TECH_00001805).
1[c]	a route searching unit configured to search for a whole route	GM's navigation device comprises a route searching unit configured to search for a whole route leading to the destination via the waypoints set by said setting unit.

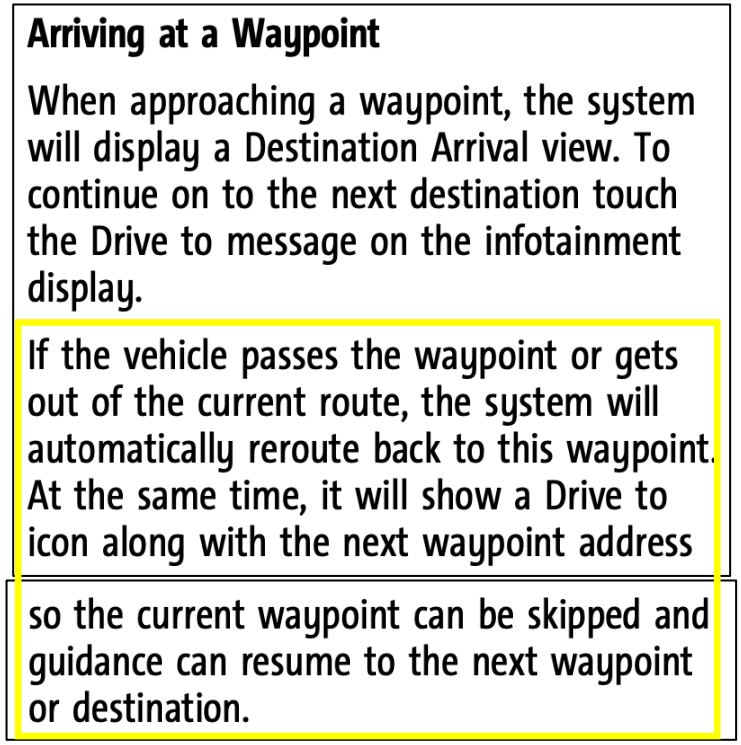
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Claim	Claim Element	Evidence of Infringement
	leading to the destination via the waypoints set by said setting unit;	For example, GM's navigation device has a route searching unit that searches for a whole route leading to the destination discussed above (represented by red pin in the image below) via the waypoints discussed above (represented as a red pin with an alphanumeric character) set by the setting unit discussed above. *See, e.g.,*  Photo of GM Infotainment 3 Plus System (yellow annotations added) (MEL_GM_TECH_00002533).

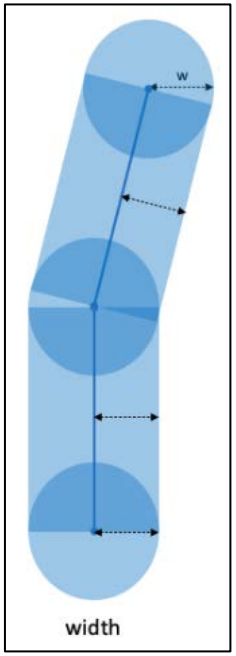
Claim	Claim Element	Evidence of Infringement
		See also:  **Map Information** Road network attributes are contained in the map database for map information. Attributes include information such as street names, street addresses, and turn restrictions. A detailed area includes all major highways, service roads, and residential roads. The detailed areas include Places of Interest (POIs) such as restaurants, airports, banks, hospitals, police stations, gas stations, tourist attractions, and historical monuments. If the vehicle does not have an applicable service plan, the map database may not include data for newly constructed areas or map database corrections that are completed after production. The navigation system provides full route guidance in the detailed map areas. 2022 Chevrolet Silverado 2500 HD/3500 HD Owner's Manual, at p. 167, at https://www.chevrolet.com/bypass/pcf/gma-content-api/resources/sites/GMA/content/staging/MANUALS/5000/MA5553/en_US/4.0/22_CHEV_Silverado_2500HD_3500HD_OM_en_US_U_84767841C_2022FEB28_3P.pdf (yellow annotations added) (MEL_GM_TECH_00001805).
1[d]	a route guidance unit configured to carry out route guidance according to the whole route which is searched for by said route searching unit;	GM's navigation device comprises a route guidance unit configured to carry out route guidance according to the whole route which is searched for by said route searching unit. For example, GM's navigation device has a route guidance unit to carry out route guidance directing the vehicle to the destination(s) according to the whole route searched for by the route searching unit discussed above. *See, e.g.,*

Claim	Claim Element	Evidence of Infringement
		 Photo of GM Infotainment 3 Plus System (yellow annotations added) (MEL_GM_TECH_00002533). *See also:*

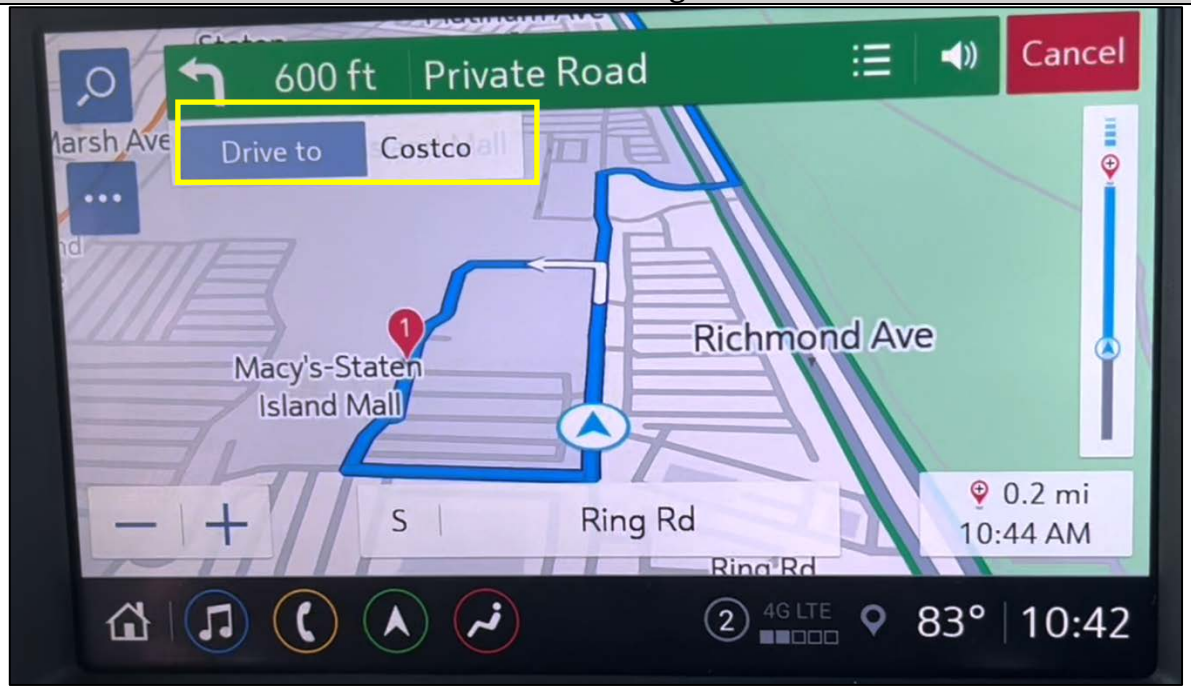
Claim	Claim Element	Evidence of Infringement
		 Photo of GM Infotainment 3 Plus System (yellow annotations added) (MEL_GM_TECH_00002534).
1[e]	an output unit configured to output a message showing that a vehicle has deviated from a route	GM's navigation device comprises an output unit configured to output a message showing that a vehicle has deviated from a route leading to a first next waypoint toward which the vehicle has been heading when said route guidance unit determines that the vehicle has deviated from the route to a predetermined distance or more and is traveling along a route after said first next waypoint.

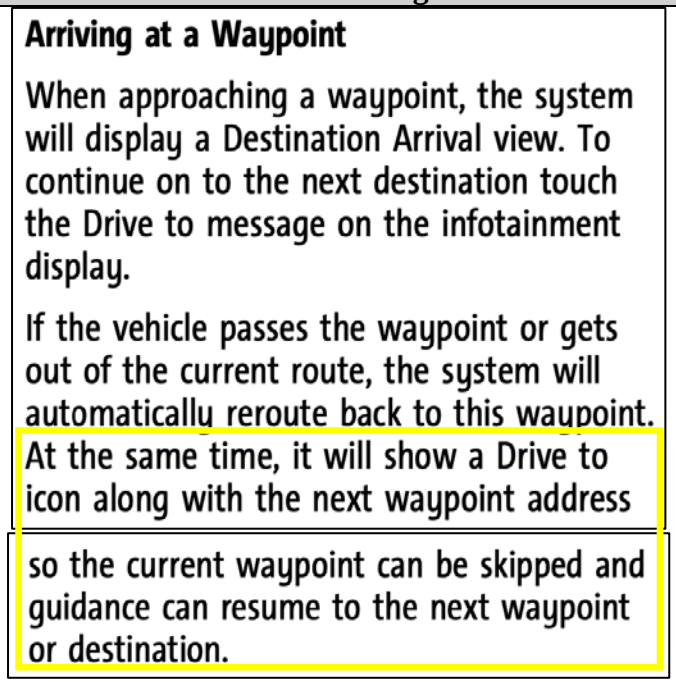
Claim	Claim Element	Evidence of Infringement
	leading to a first next waypoint toward which the vehicle has been heading when said route guidance unit determines that the vehicle has deviated from the route to a predetermined distance or more and is traveling along a route after said first next waypoint; and	For example, GM's navigation device has an output unit, *e.g.*, a display screen, to output a message, *e.g.*, a "Drive to …" icon with the next waypoint address, when the route guidance unit discussed above determines that the vehicle has deviated from a route by a predetermined distance leading to the next waypoint that the vehicle was headed towards. *See, e.g.*,  **Arriving at a Waypoint** When approaching a waypoint, the system will display a Destination Arrival view. To continue on to the next destination touch the Drive to message on the infotainment display. If the vehicle passes the waypoint or gets out of the current route, the system will automatically reroute back to this waypoint. At the same time, it will show a Drive to icon along with the next waypoint address so the current waypoint can be skipped and guidance can resume to the next waypoint or destination. 2022 Chevrolet Silverado 2500 HD/3500 HD Owner's Manual, at p. 167, at https://www.chevrolet.com/bypass/pcf/gma-content-api/resources/sites/GMA/content/staging/MANUALS/5000/MA5553/en_US/4.0/22_CHEV_Silverado_2500HD_3500HD_OM_en_US_U_84767841C_2022FEB28_3P.pdf (yellow annotations added) (MEL_GM_TECH_00001805).

Claim	Claim Element	Evidence of Infringement
		See also: **Map End User License Agreement** **END USER TERMS** The Map Data SD card ("Data") is provided for your personal, internal use only and not for resale. It is protected by copyright, and is subject to the following terms (this "End User License Agreement") and conditions which are agreed to by you, on the one hand, and HERE North America, LLC ("HERE") and its licensors (including their licensors and suppliers) on the other hand. 2022 Chevrolet Silverado 2500 HD/3500 HD Owner's Manual, at p. 197, at https://www.chevrolet.com/bypass/pcf/gma-content-api/resources/sites/GMA/content/staging/MANUALS/5000/MA5553/en_US/4.0/22_CHEV_Silverado_2500HD_3500HD_OM_en_US_U_84767841C_2022FEB28_3P.pdf (MEL_GM_TECH_00001835). *See also:* Listener Name — Purpose … RerouteListener — Whether a route recalculation has begun as a result of the current position deviating from the original route …

Claim	Claim Element	Evidence of Infringement
		Rerouting While navigation is in progress, the following three types of rerouting can occur: • Basic Route Recalculation - This is performed automatically by the guidance engine. The guidance engine checks the current position to see if it is on the route and approaching the target destination. If it is not, then it triggers a route recalculation and updates the navigation session. `RerouteListener.onRerouteBegin()` and `RerouteListener.onRerouteEnd(RouteResult, RoutingError)` callbacks also occur. Navigation Events, HERE Developer, at https://developer.here.com/documentation/android-premium/dev_guide/topics/map-guidance-events.html (MEL_GM_TECH_00002443). *See also:*  Implementing Search Along The Route, HERE Developer, at https://developer.here.com/documentation/geocoding-search-api/dev_guide/topics/implementing-route.html (MEL_GM_TECH_00002446).

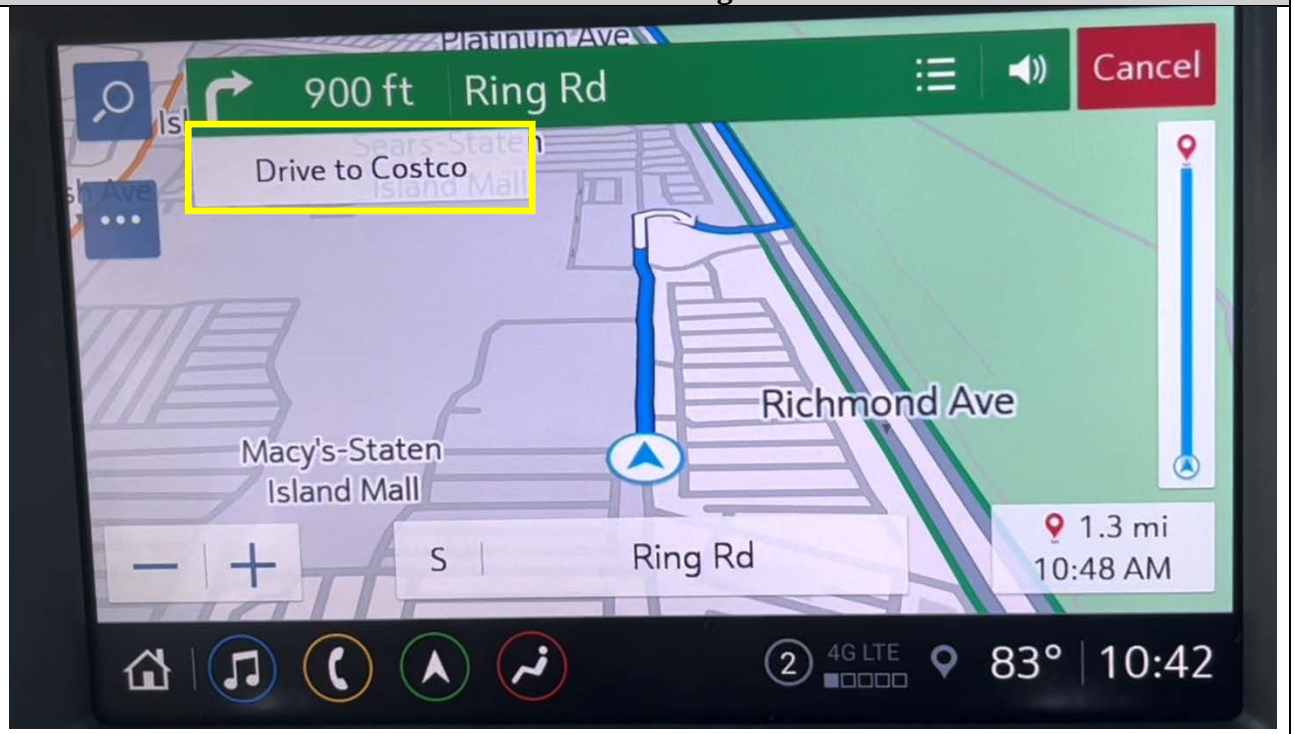
Claim	Claim Element	Evidence of Infringement
		See also:  …

Claim	Claim Element	Evidence of Infringement
		 Photos of GM Infotainment 3 Plus System (yellow annotations added) (MEL_GM_TECH_00002519-MEL_GM_TECH_00002520).
1[f]	an input unit configured to input a command indicating whether or not to travel via said first next waypoint in response to the message outputted by said output unit.	GM's navigation device comprises an input unit configured to input a command indicating whether or not to travel via said first next waypoint in response to the message outputted by said output unit. For example, GM's navigation device has an input unit, *e.g.*, touchscreen and/or button configured to input a command indicating whether or not to travel to the next waypoint/final destination discussed above, including to skip a waypoint, in response to the message outputted by the output unit discussed above. *See, e.g.,*

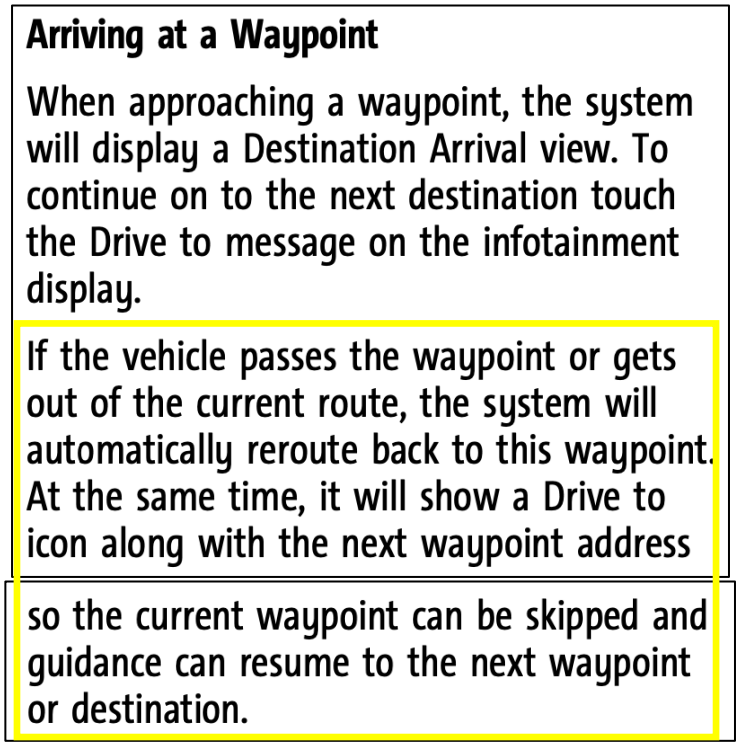
Claim	Claim Element	Evidence of Infringement
		 2022 Chevrolet Silverado 2500HD/3500 HD Owner's Manual, at p. 167, at https://www.chevrolet.com/bypass/pcf/gma-content-api/resources/sites/GMA/content/staging/MANUALS/5000/MA5553/en_US/4.0/22_CHEV_Silverado_2500HD_3500HD_OM_en_US_U_84767841C_2022FEB28_3P.pdf (yellow annotations added) (MEL_GM_TECH_00001805). *See also:*

Claim	Claim Element	Evidence of Infringement
		 …

Claim	Claim Element	Evidence of Infringement
		 …

Claim	Claim Element	Evidence of Infringement
		 Photos of GM Infotainment 3 Plus System (yellow annotations added) (MEL_GM_TECH_00002521-MEL_GM_TECH_00002523).
2	The navigation device according to claim 1, wherein when the command is inputted from the input unit, the output unit deletes the message which said output unit outputs and the route	*See* claim 1. In GM's navigation device according to claim 1, when the command is inputted from the input unit, the output unit deletes the message which said output unit outputs and the route searching unit re-searches for a new whole route. For example, when the command is inputted from the input unit discussed above (*see* element 1[f] above), *e.g.*, the command to skip a waypoint, the output unit discussed above (*see* element 1[e] above) deletes the "Drive to …" message and the route searching unit discussed above (*see* element 1[c] above) re-searches for a new whole route.

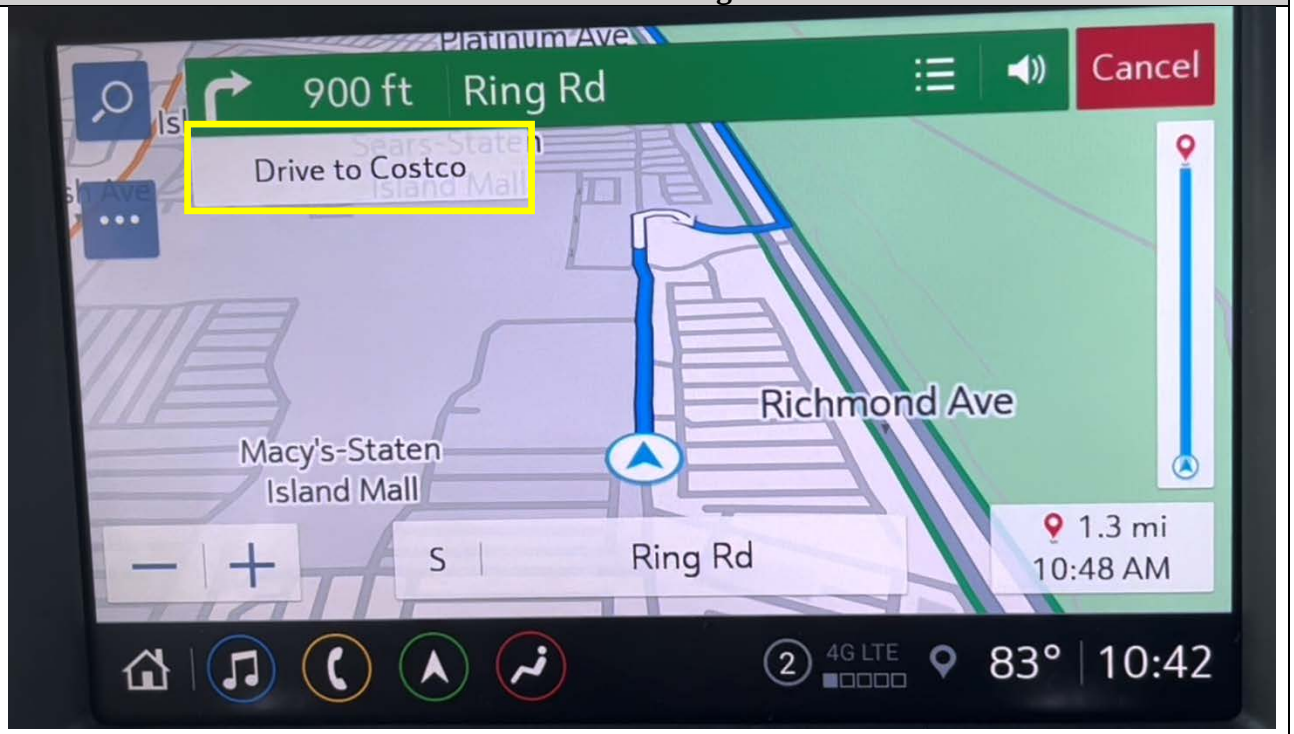
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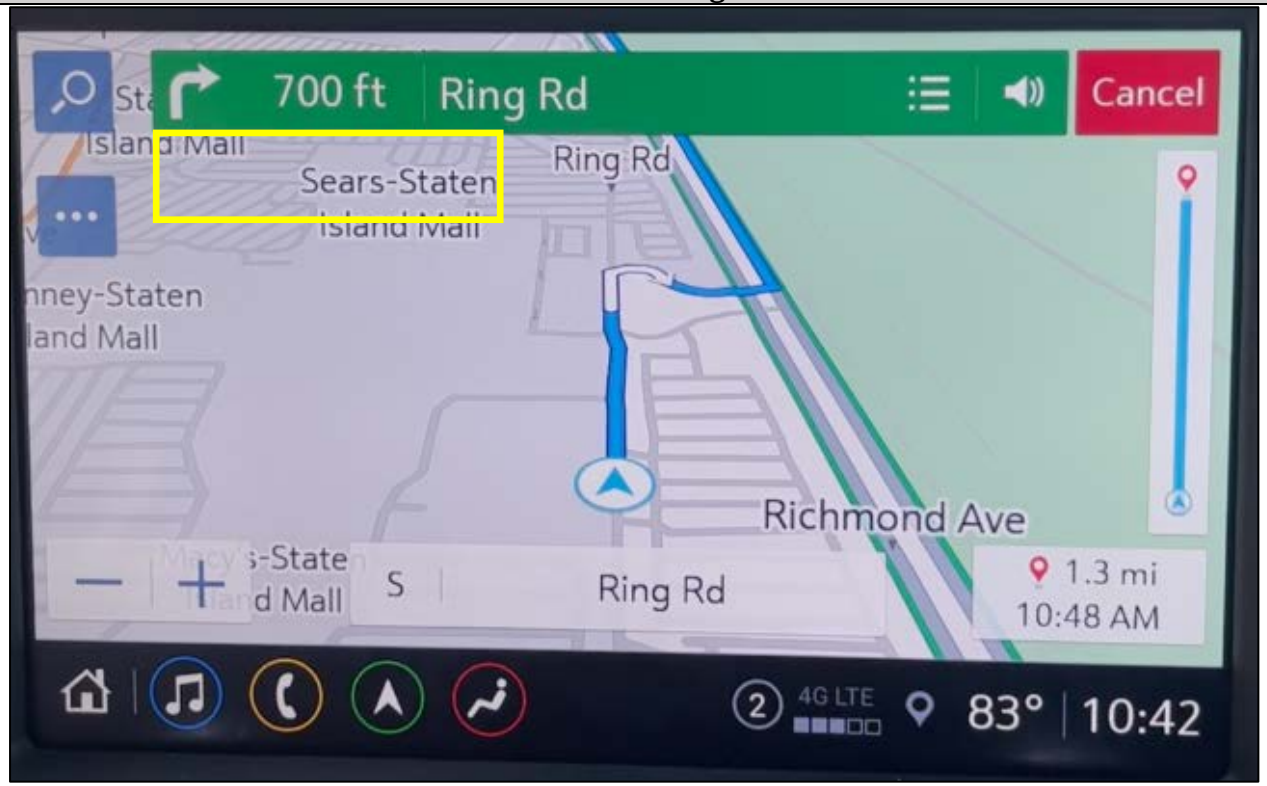
Claim	Claim Element	Evidence of Infringement
	searching unit re-searches for a new whole route.	*See, e.g.,*  **Arriving at a Waypoint** When approaching a waypoint, the system will display a Destination Arrival view. To continue on to the next destination touch the Drive to message on the infotainment display. If the vehicle passes the waypoint or gets out of the current route, the system will automatically reroute back to this waypoint. At the same time, it will show a Drive to icon along with the next waypoint address so the current waypoint can be skipped and guidance can resume to the next waypoint or destination. 2022 Chevrolet Silverado 2500 HD/3500 HD Owner's Manual, at p. 167, at https://www.chevrolet.com/bypass/pcf/gma-content-api/resources/sites/GMA/content/staging/MANUALS/5000/MA5553/en_US/4.0/22_CHEV_Silverado_2500HD_3500HD_OM_en_US_U_84767841C_2022FEB28_3P.pdf (yellow annotations added) (MEL_GM_TECH_00001805). *See also:*

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Claim	Claim Element	Evidence of Infringement
		 …

Claim	Claim Element	Evidence of Infringement
		 …

Claim	Claim Element	Evidence of Infringement
		 …

Claim	Claim Element	Evidence of Infringement
		 Photos of GM Infotainment 3 Plus System (yellow annotations added) (MEL_GM_TECH_00002521-MEL_GM_TECH_00002524).
3	The navigation device according to claim 1, wherein when the command indicating that the vehicle does not travel via the first next waypoint is	*See* claim 1. In GM's navigation device according to claim 1, when the command indicating that the vehicle does not travel via the first next waypoint is inputted, the output unit outputs a waypoint list in which a list of the waypoints set by the setting unit is shown, and the route searching unit re-searches for a new whole route according to a new waypoint list which is acquired by changing the waypoint list outputted by said output unit by using said input unit.

Claim	Claim Element	Evidence of Infringement
	inputted, the output unit outputs a waypoint list in which a list of the waypoints set by the setting unit is shown, and the route searching unit re-searches for a new whole route according to a new waypoint list which is acquired by changing the waypoint list outputted by said output unit by using said input unit.	For example, when the command indicating that the vehicle is not traveling to the next waypoint is inputted using the input unit discussed above (*see* element 1[f] above), GM's navigation device outputs via its output unit discussed above a list of waypoints set by the setting unit discussed above and re-searches for a new whole route without the deleted next waypoint via its route searching unit discussed above according to the new waypoint list. *See, e.g.,*

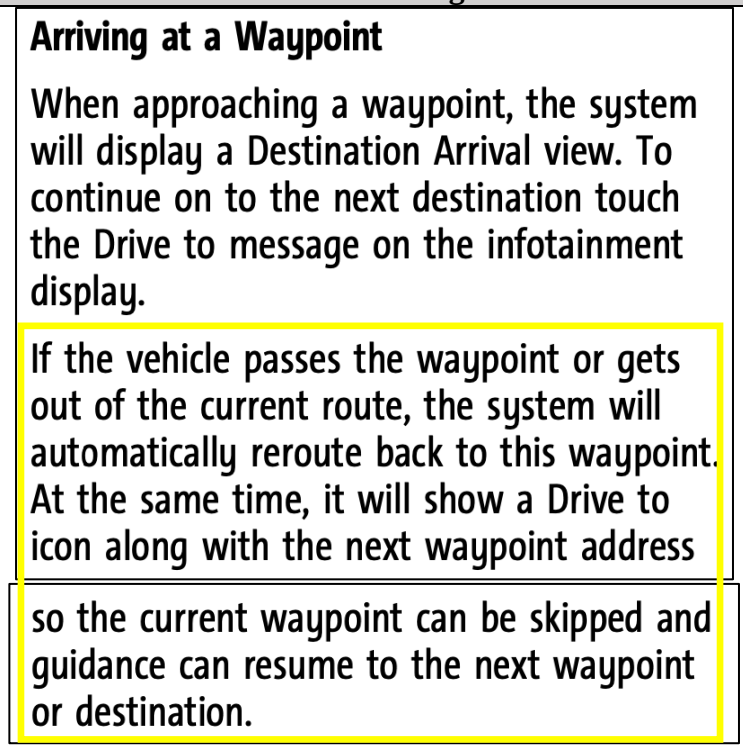
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Claim	Claim Element	Evidence of Infringement
		Editing a Waypoint When waypoints are added during active guidance, the system allows a stop to be deleted or the order to be changed. To edit a waypoint: 1. Touch ⋯. 2. Touch Edit Destinations. • Modify destination order by touching and holding the arrow until it is highlighted. Drag to move the waypoint up or down the list. • Delete a waypoint by touching 🗑. A pop-up will appear to confirm waypoint removal. Once the request is confirmed, the system will remove the address from the destinations list. Touch ✕ on the top right corner so the system can recalculate the route. If there is only one address in the destinations list, the system will disable the move and delete functions. The system will not allow the final destination to be deleted.

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Claim	Claim Element	Evidence of Infringement
		2022 Chevrolet Silverado 2500 HD/3500 HD Owner's Manual, at p. 167, at https://www.chevrolet.com/bypass/pcf/gma-content-api/resources/sites/GMA/content/staging/MANUALS/5000/MA5553/en_US/4.0/22_CHEV_Silverado_2500HD_3500HD_OM_en_US_U_84767841C_2022FEB28_3P.pdf (yellow annotations added) (MEL_GM_TECH_00001805).
4	The navigation device according to claim 1, wherein when the command indicating that the vehicle does not travel via the first next waypoint is inputted, the route searching unit re-searches for a new whole route leading to the destination via another waypoint when the other waypoint exists forward of the first next waypoint, or re-searches for a new whole route leading to the destination when no other waypoint exists forward of the first next waypoint.	*See* claim 1. In GM's navigation device according to claim 1, when the command indicating that the vehicle does not travel via the first next waypoint is inputted, the route searching unit re-searches for a new whole route leading to the destination via another waypoint when the other waypoint exists forward of the first next waypoint, or re-searches for a new whole route leading to the destination when no other waypoint exists forward of the first next waypoint. For example, when the command indicating that the vehicle is not traveling to the next waypoint is inputted using the input unit discussed above (*see* element 1[f] above), GM's navigation device re-calculates a new whole route to the destination discussed above via its route searching unit discussed above including when no other waypoint exists in front of the next waypoint. *See, e.g.,*

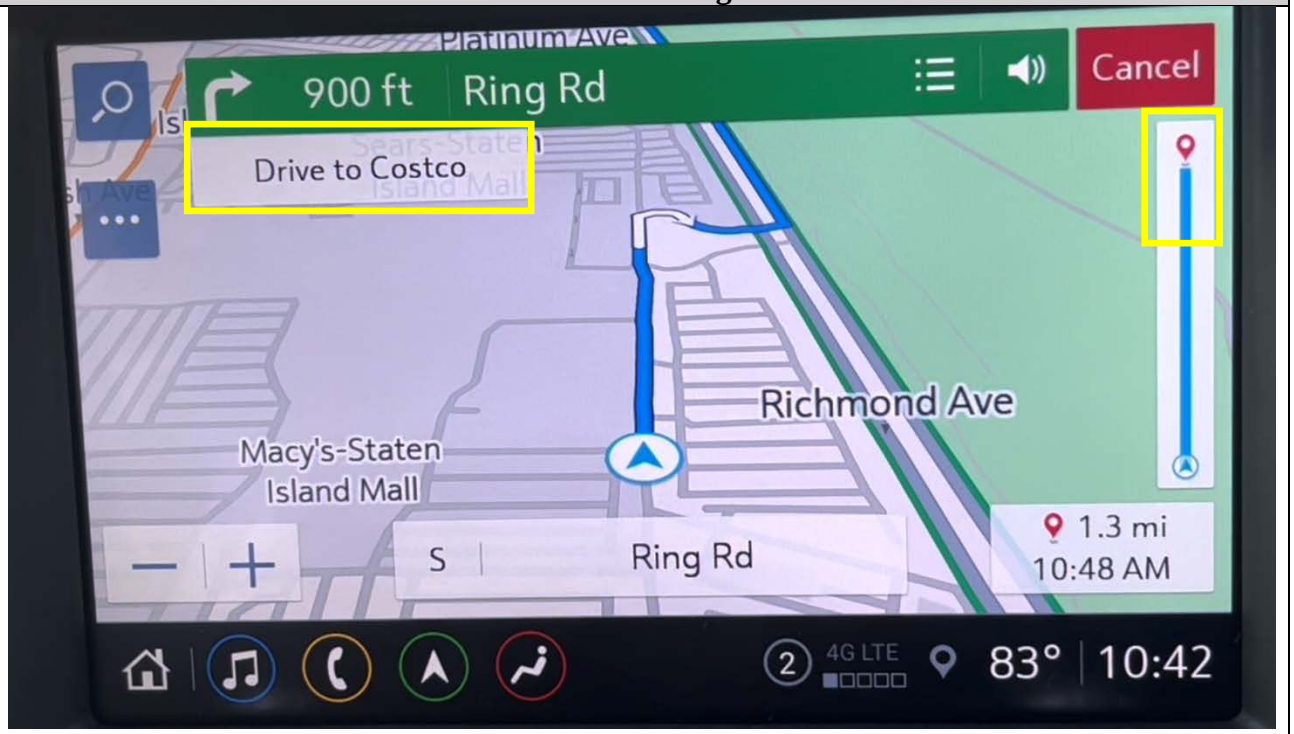
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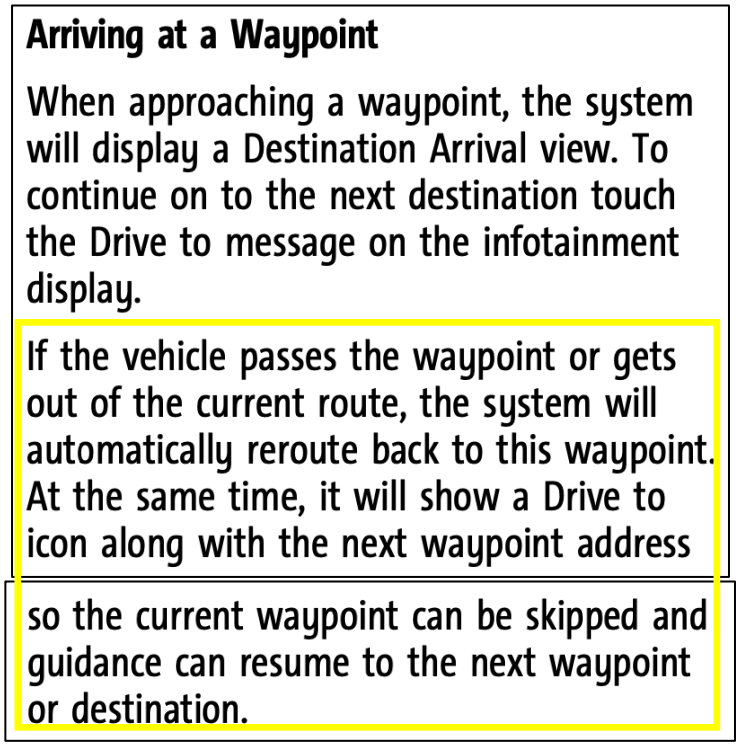
Claim	Claim Element	Evidence of Infringement
		 **Arriving at a Waypoint** When approaching a waypoint, the system will display a Destination Arrival view. To continue on to the next destination touch the Drive to message on the infotainment display. If the vehicle passes the waypoint or gets out of the current route, the system will automatically reroute back to this waypoint. At the same time, it will show a Drive to icon along with the next waypoint address so the current waypoint can be skipped and guidance can resume to the next waypoint or destination. 2022 Chevrolet Silverado 2500 HD/3500 HD Owner's Manual, at p. 167, at https://www.chevrolet.com/bypass/pcf/gma-content-api/resources/sites/GMA/content/staging/MANUALS/5000/MA5553/en_US/4.0/22_CHEV_Silverado_2500HD_3500HD_OM_en_US_U_84767841C_2022FEB28_3P.pdf (yellow annotations added) (MEL_GM_TECH_00001805). *See also:*

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Claim	Claim Element	Evidence of Infringement
		 …

Claim	Claim Element	Evidence of Infringement
		 …

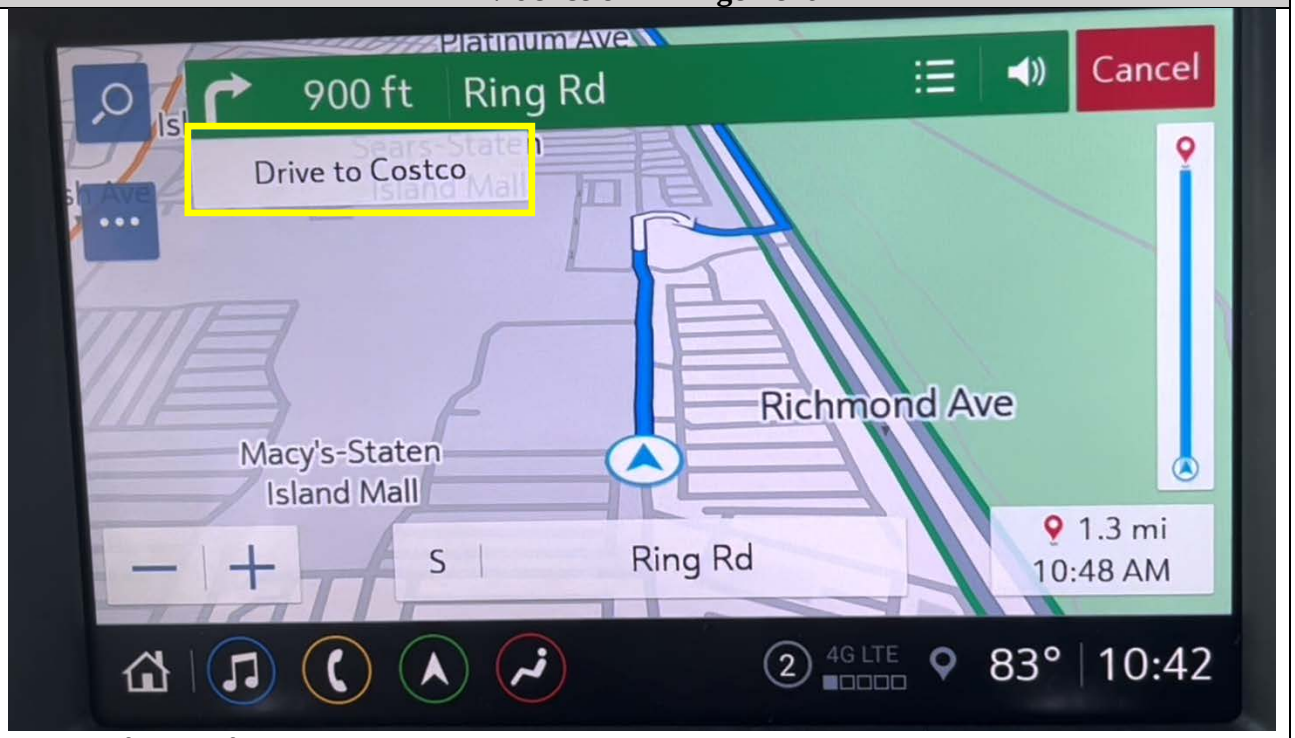
Claim	Claim Element	Evidence of Infringement
		 Photos of GM Infotainment 3 Plus System (yellow annotations added) (MEL_GM_TECH_00002521-MEL_GM_TECH_00002523).
8	The navigation device according to claim 1, wherein the output unit includes a display unit, and the input unit inputs the command according to either pushing down of a button displayed on a screen	*See* claim 1. In GM's navigation device according to claim 1, the output unit includes a display unit, and the input unit inputs the command according to either pushing down of a button displayed on a screen of said display unit, or voice. For example, the output unit discussed above of GM's navigation device includes a display unit, *e.g.*, a display screen. For example, the input unit discussed above of GM's navigation device inputs the command (*see* element 1[f] above) by pressing a button displayed on the display unit's screen.

Claim	Claim Element	Evidence of Infringement
	of said display unit, or voice.	*See, e.g.,*  **Arriving at a Waypoint** When approaching a waypoint, the system will display a Destination Arrival view. To continue on to the next destination touch the Drive to message on the infotainment display. If the vehicle passes the waypoint or gets out of the current route, the system will automatically reroute back to this waypoint. At the same time, it will show a Drive to icon along with the next waypoint address so the current waypoint can be skipped and guidance can resume to the next waypoint or destination. 2022 Chevrolet Silverado 2500 HD/3500 HD Owner's Manual, at p. 167, at https://www.chevrolet.com/bypass/pcf/gma-content-api/resources/sites/GMA/content/staging/MANUALS/5000/MA5553/en_US/4.0/22_CHEV_Silverado_2500HD_3500HD_OM_en_US_U_84767841C_2022FEB28_3P.pdf (yellow annotations added) (MEL_GM_TECH_00001805). *See also:*

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Claim	Claim Element	Evidence of Infringement
		 …

Claim	Claim Element	Evidence of Infringement
		 …

Claim	Claim Element	Evidence of Infringement
		 Photos of GM Infotainment 3 Plus System (yellow annotations added) (MEL_GM_TECH_00002521-MEL_GM_TECH_00002523).
9	The navigation device according to claim 1, wherein when the command is not inputted from the input unit even if a predetermined period of time has elapsed after the output unit outputs the message	*See* claim 1. In GM's navigation device according to claim 1, when the command is not inputted from the input unit even if a predetermined period of time has elapsed after the output unit outputs the message showing that the vehicle has deviated from the route, the output unit deletes the message which said output unit outputs and the route searching unit re-searches for a new whole route. For example, when the command is not inputted from the input unit discussed above, *e.g.*, the "Drive to …" icon is not selected, even if a predetermined period of time has elapsed after the output unit discussed above outputs the "Drive to …" message showing that the vehicle has

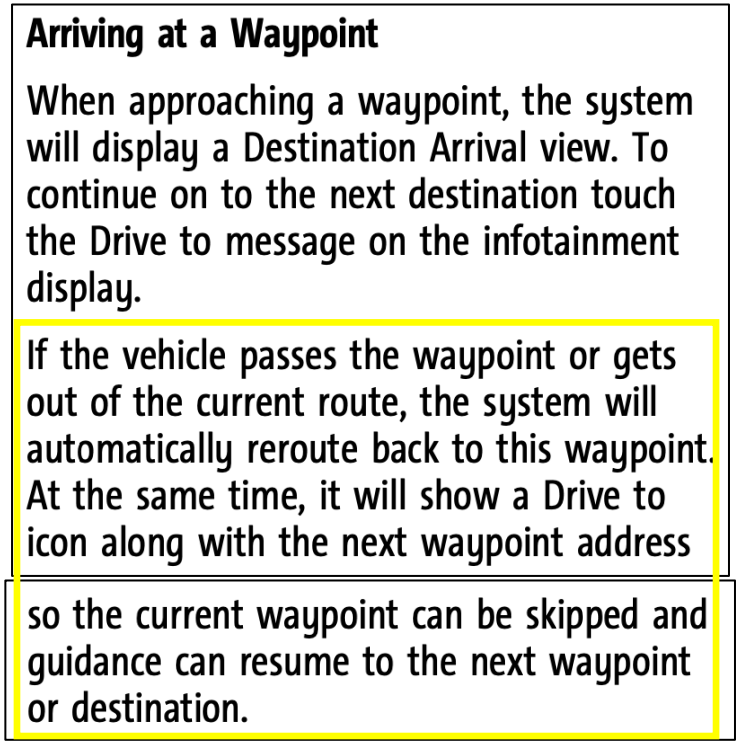
Claim	Claim Element	Evidence of Infringement
	showing that the vehicle has deviated from the route, the output unit deletes the message which said output unit outputs and the route searching unit re-searches for a new whole route.	deviated from the route, the output unit deletes the "Drive to …" message and the route searching unit discussed above re-searches for a new whole route. *See, e.g.,* **Arriving at a Waypoint** When approaching a waypoint, the system will display a Destination Arrival view. To continue on to the next destination touch the Drive to message on the infotainment display. If the vehicle passes the waypoint or gets out of the current route, the system will automatically reroute back to this waypoint. At the same time, it will show a Drive to icon along with the next waypoint address so the current waypoint can be skipped and guidance can resume to the next waypoint or destination. 2022 Chevrolet Silverado 2500 HD/3500 HD Owner's Manual, at p. 167, at https://www.chevrolet.com/bypass/pcf/gma-content-api/resources/sites/GMA/content/staging/MANUALS/5000/MA5553/en_US/4.0/22_CHEV_Silverado_2500HD_3500HD_OM_en_US_U_84767841C_2022FEB28_3P.pdf (yellow annotations added) (MEL_GM_TECH_00001805). *See also:*

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Claim	Claim Element	Evidence of Infringement
		 …

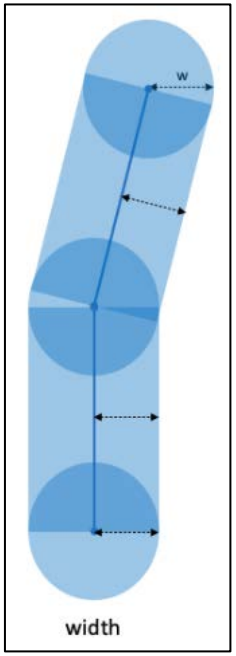
Claim	Claim Element	Evidence of Infringement
		 …

Claim	Claim Element	Evidence of Infringement
		 Photos of GM Infotainment 3 Plus System (yellow annotations added) (MEL_GM_TECH_00002525-MEL_GM_TECH_00002527).
10	The navigation device according to claim 1, wherein when the route guidance unit determines that the vehicle has deviated from the route to the predetermined	*See* claim 1. In GM's navigation device according to claim 1, when the route guidance unit determines that the vehicle has deviated from the route to the predetermined distance or more in a state in which the output unit outputs the message showing that the vehicle has deviated from the route, the output unit deletes the message which said output unit outputs and the route searching unit re-searches for a new whole route.

Claim	Claim Element	Evidence of Infringement
	distance or more in a state in which the output unit outputs the message showing that the vehicle has deviated from the route, the output unit deletes the message which said output unit outputs and the route searching unit re-searches for a new whole route.	For example, when the route guidance unit discussed above determines that the vehicle has deviated from the route to the predetermined distance or more (*see* element 1[e] above), GM's navigation device enters a state in which the output unit discussed above outputs a "Drive to …" message showing that the vehicle has deviated from the route and then deletes the message when the route searching unit discussed above searches for and obtains a new whole route. *See, e.g.,*  **Arriving at a Waypoint** When approaching a waypoint, the system will display a Destination Arrival view. To continue on to the next destination touch the Drive to message on the infotainment display. If the vehicle passes the waypoint or gets out of the current route, the system will automatically reroute back to this waypoint. At the same time, it will show a Drive to icon along with the next waypoint address so the current waypoint can be skipped and guidance can resume to the next waypoint or destination. 2022 Chevrolet Silverado 2500 HD/3500 HD Owner's Manual, at p. 167, at https://www.chevrolet.com/bypass/pcf/gma-content-api/resources/sites/GMA/content/staging/MANUALS/5000/MA5553/en_US/4.0/22_CHEV_Silverado_2500HD_3500HD_OM_en_US_U_84767841C_2022FEB28_3P.pdf (yellow annotations added) (MEL_GM_TECH_00001805).

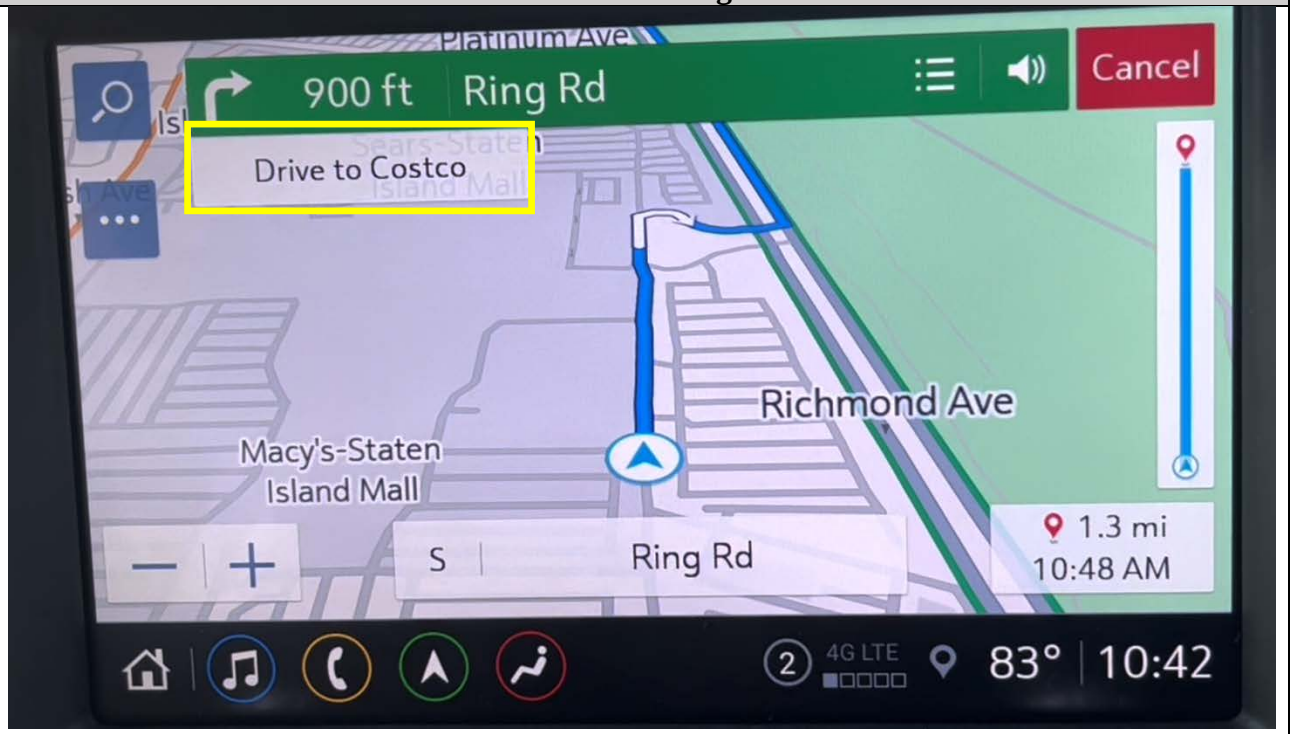
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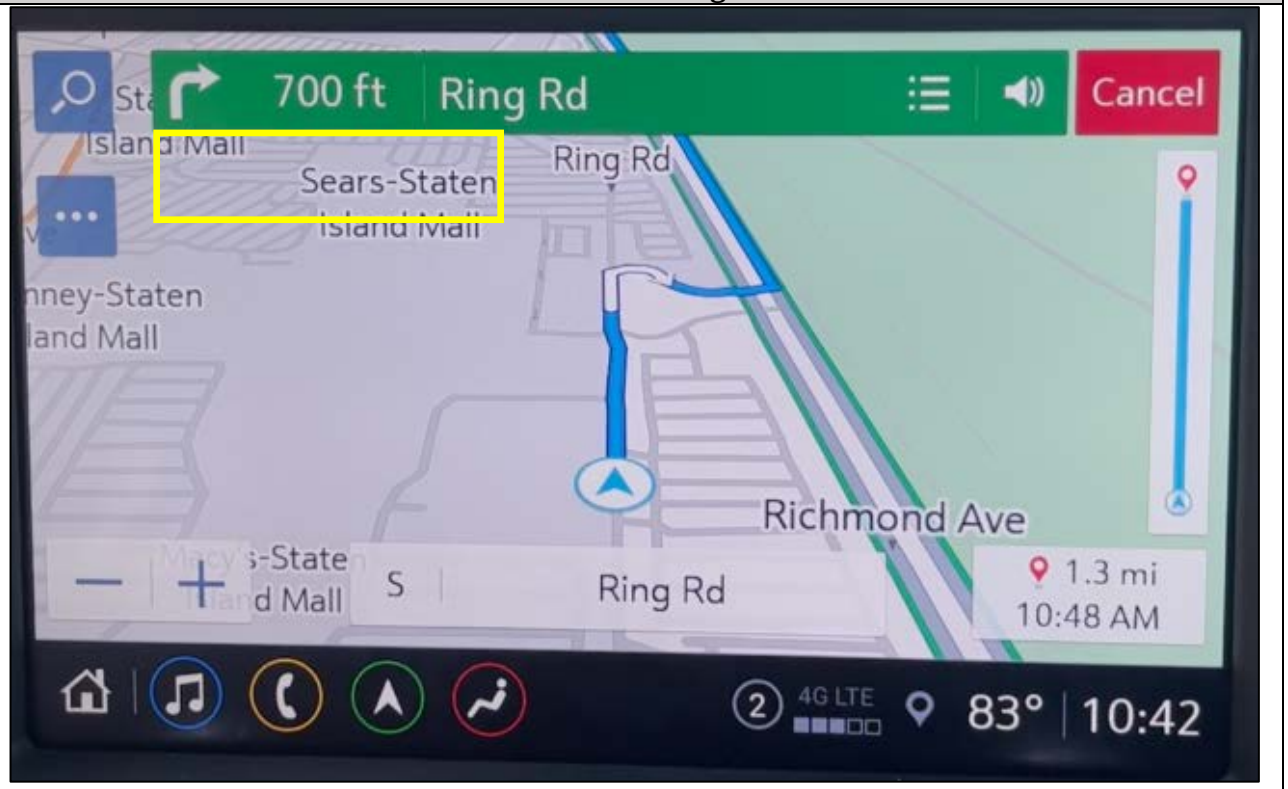
Claim	Claim Element	Evidence of Infringement
		See also: **Map End User License Agreement** **END USER TERMS** The Map Data SD card ("Data") is provided for your personal, internal use only and not for resale. It is protected by copyright, and is subject to the following terms (this "End User License Agreement") and conditions which are agreed to by you, on the one hand, and HERE North America, LLC ("HERE") and its licensors (including their licensors and suppliers) on the other hand. 2022 Chevrolet Silverado 2500 HD/3500 HD Owner's Manual, at p. 197, at https://www.chevrolet.com/bypass/pcf/gma-content-api/resources/sites/GMA/content/staging/MANUALS/5000/MA5553/en_US/4.0/22_CHEV_Silverado_2500HD_3500HD_OM_en_US_U_84767841C_2022FEB28_3P.pdf (MEL_GM_TECH_00001835). *See also:* Listener Name — Purpose … RerouteListener — Whether a route recalculation has begun as a result of the current position deviating from the original route …

Claim	Claim Element	Evidence of Infringement
		Rerouting While navigation is in progress, the following three types of rerouting can occur: • Basic Route Recalculation - This is performed automatically by the guidance engine. The guidance engine checks the current position to see if it is on the route and approaching the target destination. If it is not, then it triggers a route recalculation and updates the navigation session. `RerouteListener.onRerouteBegin()` and `RerouteListener.onRerouteEnd(RouteResult, RoutingError)` callbacks also occur. Navigation Events, HERE Developer, at https://developer.here.com/documentation/android-premium/dev_guide/topics/map-guidance-events.html (MEL_GM_TECH_00002443). *See also:*  Implementing Search Along The Route, HERE Developer, at https://developer.here.com/documentation/geocoding-search-api/dev_guide/topics/implementing-route.html (MEL_GM_TECH_00002446).

Claim	Claim Element	Evidence of Infringement
		See also:  …

Claim	Claim Element	Evidence of Infringement
		 …

Claim	Claim Element	Evidence of Infringement
		 …

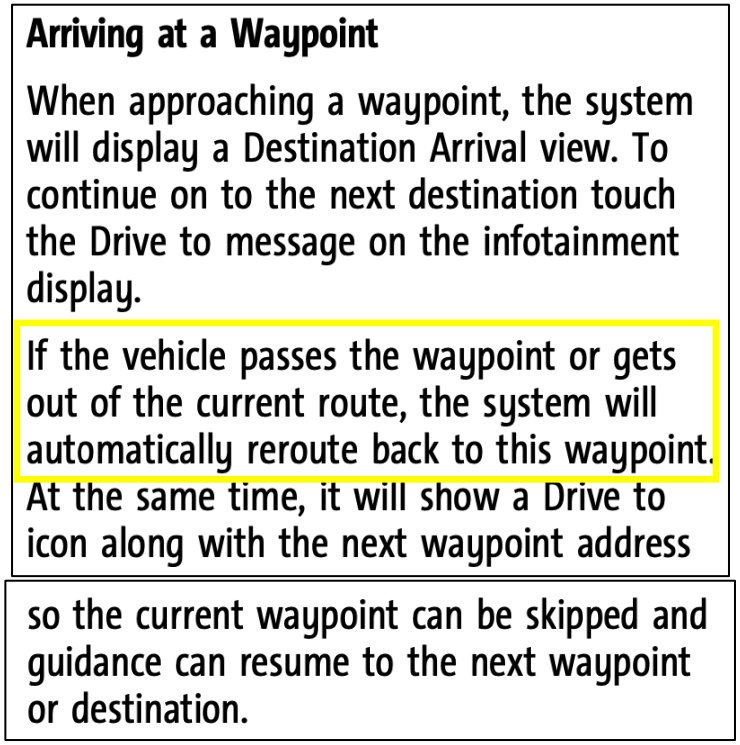
Claim	Claim Element	Evidence of Infringement
		 Photos of GM Infotainment 3 Plus System (yellow annotations added) (MEL_GM_TECH_00002521-MEL_GM_TECH_00002524).
11	The navigation device according to claim 9, wherein the route searching unit re-searches for a new whole route leading to the destination via	*See* claim 9. In GM's navigation device according to claim 9, the route searching unit re-searches for a new whole route leading to the destination via the first next waypoint. For example, the route searching unit of GM's navigation system re-searches for a new whole route leading to the destination via the first next waypoint.

Claim	Claim Element	Evidence of Infringement
	the first next waypoint.	*See, e.g.,* **Arriving at a Waypoint** When approaching a waypoint, the system will display a Destination Arrival view. To continue on to the next destination touch the Drive to message on the infotainment display. If the vehicle passes the waypoint or gets out of the current route, the system will automatically reroute back to this waypoint. At the same time, it will show a Drive to icon along with the next waypoint address so the current waypoint can be skipped and guidance can resume to the next waypoint or destination. 2022 Chevrolet Silverado 2500 HD/3500 HD Owner's Manual, at p. 167, at https://www.chevrolet.com/bypass/pcf/gma-content-api/resources/sites/GMA/content/staging/MANUALS/5000/MA5553/en_US/4.0/22_CHEV_Silverado_2500HD_3500HD_OM_en_US_U_84767841C_2022FEB28_3P.pdf (yellow annotations added) (MEL_GM_TECH_00001805). *See also:*

Claim	Claim Element	Evidence of Infringement
		 …

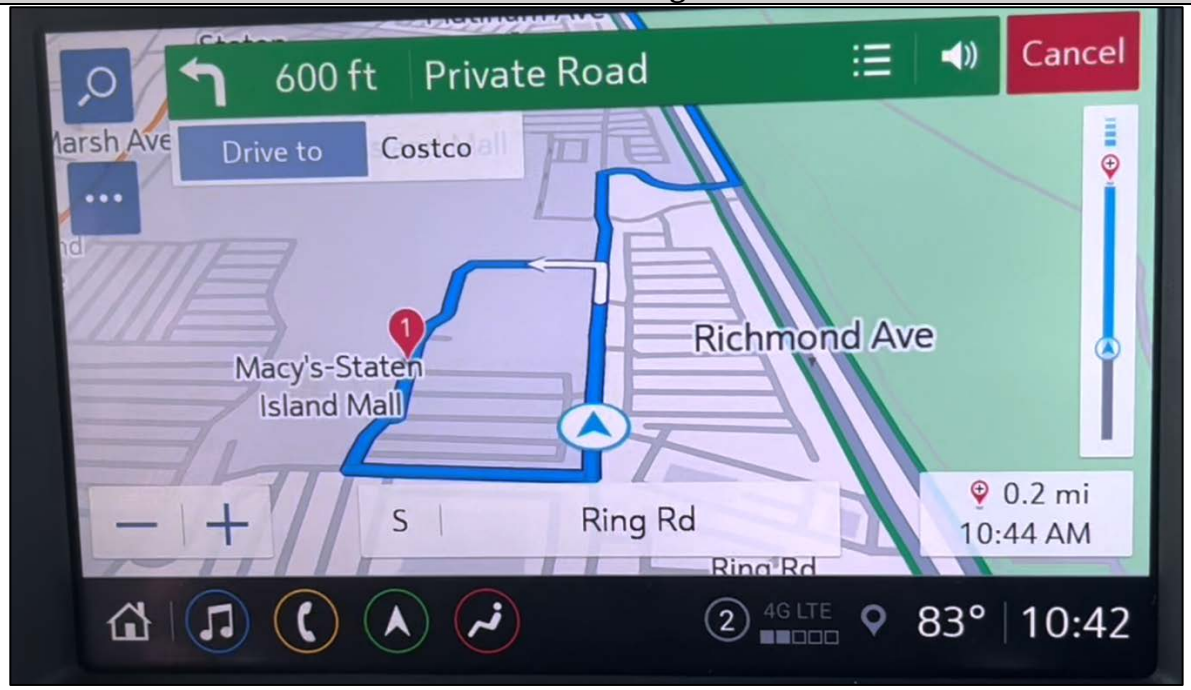
Claim	Claim Element	Evidence of Infringement
		 …

Claim	Claim Element	Evidence of Infringement
		 Photos of GM Infotainment 3 Plus System (yellow annotations added) (MEL_GM_TECH_00002525-MEL_GM_TECH_00002527).
12	The navigation device according to claim 10, wherein the route searching unit re-searches for a new whole route leading to the destination via the first next waypoint.	*See* claim 10. In GM's navigation device according to claim 10, the route searching unit re-searches for a new whole route leading to the destination via the first next waypoint. For example, the route searching unit discussed above of GM's navigation device re-searches for a new whole route leading to the destination discussed above via the first next waypoint discussed above.

Claim	Claim Element	Evidence of Infringement
		See, e.g.,  **Arriving at a Waypoint** When approaching a waypoint, the system will display a Destination Arrival view. To continue on to the next destination touch the Drive to message on the infotainment display. If the vehicle passes the waypoint or gets out of the current route, the system will automatically reroute back to this waypoint. At the same time, it will show a Drive to icon along with the next waypoint address so the current waypoint can be skipped and guidance can resume to the next waypoint or destination. 2022 Chevrolet Silverado 2500 HD/3500 HD Owner's Manual, at p. 167, at https://www.chevrolet.com/bypass/pcf/gma-content-api/resources/sites/GMA/content/staging/MANUALS/5000/MA5553/en_US/4.0/22_CHEV_Silverado_2500HD_3500HD_OM_en_US_U_84767841C_2022FEB28_3P.pdf (yellow annotations added) (MEL_GM_TECH_00001805). *See also:*

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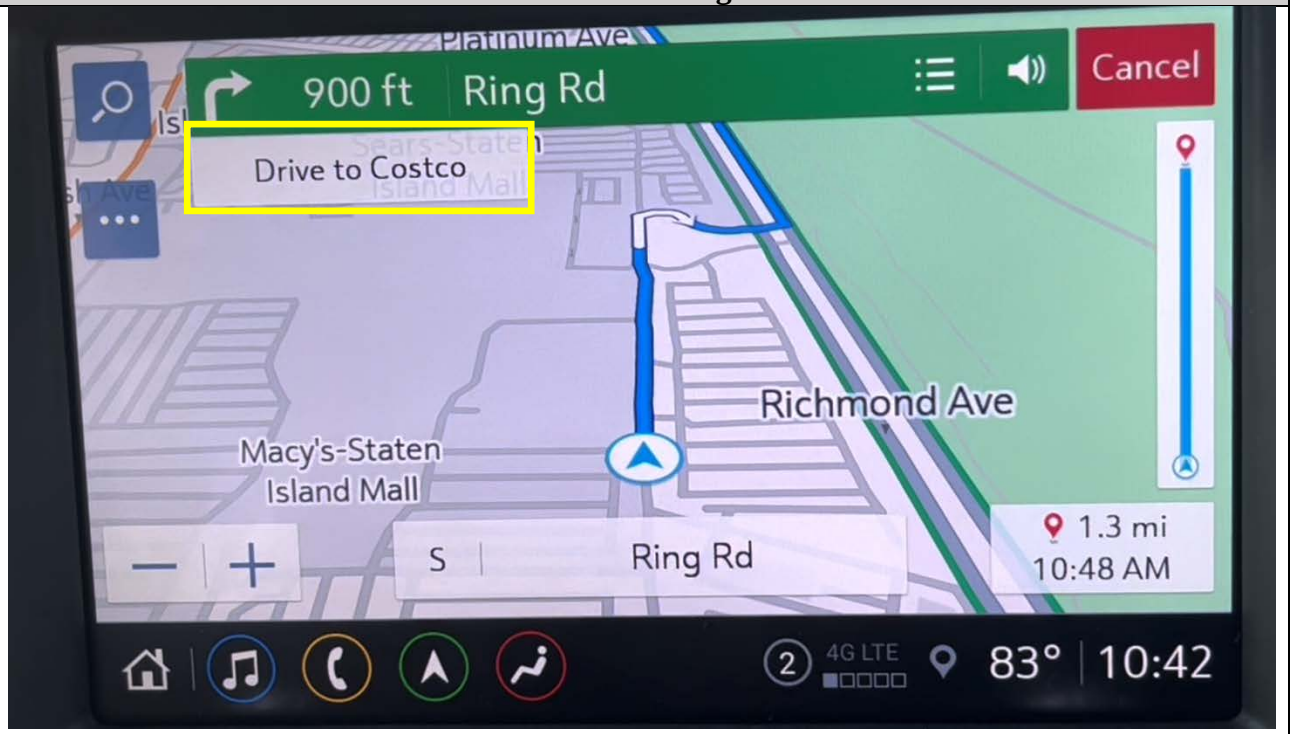
Claim	Claim Element	Evidence of Infringement
		 …

Claim	Claim Element	Evidence of Infringement
		 Photos of GM Infotainment 3 Plus System (yellow annotations added) (MEL_GM_TECH_00002519-MEL_GM_TECH_00002520).
14	The navigation device according to claim 10, wherein the route searching unit re-searches for a new whole route leading to the destination via another waypoint when the other waypoint exists forward of the first	*See* claim 10. In GM's navigation device according to claim 10, the route searching unit re-searches for a new whole route leading to the destination via another waypoint when the other waypoint exists forward of the first next waypoint, or re-searches for a new whole route leading to the destination when no other waypoint exists forward of the first next waypoint. For example, the route searching unit discussed above of GM's navigation device re-searches for a new whole route leading to the destination discussed above including when no other waypoints exist.

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Claim	Claim Element	Evidence of Infringement
	next waypoint, or re-searches for a new whole route leading to the destination when no other waypoint exists forward of the first next waypoint.	*See, e.g.*,  …

Claim	Claim Element	Evidence of Infringement
		 …

Claim	Claim Element	Evidence of Infringement
		 Photos of GM Infotainment 3 Plus System (yellow annotations added) (MEL_GM_TECH_00002521-MEL_GM_TECH_00002523).
16	The navigation device according to claim 1, wherein when the command is not inputted from the input unit even if a predetermined period of time has elapsed after the output unit outputs the message	*See* claim 1. In GM's navigation device according to claim 1, when the command is not inputted from the input unit even if a predetermined period of time has elapsed after the output unit outputs the message showing that the vehicle has deviated from the route, the output unit deletes the message which said output unit outputs and the route searching unit re-searches for a new whole route leading to the destination via the first next waypoint, a new whole route leading to the destination via another waypoint when the other waypoint exists forward of said first next waypoint, or a new whole route leading to the destination when no other waypoint exists forward of said first next waypoint.

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Claim	Claim Element	Evidence of Infringement
	showing that the vehicle has deviated from the route, the output unit deletes the message which said output unit outputs and the route searching unit re-searches for a new whole route leading to the destination via the first next waypoint, a new whole route leading to the destination via another waypoint when the other waypoint exists forward of said first next waypoint, or a new whole route leading to the destination when no other waypoint exists forward of said first next waypoint.	For example, when the command is not inputted from the input unit discussed above, *e.g.*, the "Drive to …" icon is not selected, even if a predetermined period of time has elapsed after the output unit discussed above outputs the "Drive to …" message showing that the vehicle has deviated from the route, the output unit deletes the "Drive to …" message and the route searching unit discussed above re-searches for a new whole route including leading to the destination via the first next waypoint. *See, e.g.*, **Arriving at a Waypoint** When approaching a waypoint, the system will display a Destination Arrival view. To continue on to the next destination touch the Drive to message on the infotainment display. If the vehicle passes the waypoint or gets out of the current route, the system will automatically reroute back to this waypoint. At the same time, it will show a Drive to icon along with the next waypoint address so the current waypoint can be skipped and guidance can resume to the next waypoint or destination. 2022 Chevrolet Silverado 2500 HD/3500 HD Owner's Manual, at p. 167, at https://www.chevrolet.com/bypass/pcf/gma-content-api/resources/sites/GMA/content/staging/MANUALS/5000/MA5553/en_US/4.0/22_CHEV_Silve

Claim	Claim Element	Evidence of Infringement
		rado_2500HD_3500HD_OM_en_US_U_84767841C_2022FEB28_3P.pdf (yellow annotations added) (MEL_GM_TECH_00001805). *See also:*  …

Claim	Claim Element	Evidence of Infringement
		 …

Claim	Claim Element	Evidence of Infringement
		 Photos of GM Infotainment 3 Plus System (yellow annotations added) (MEL_GM_TECH_00002525-MEL_GM_TECH_00002527).
17	The navigation device according to claim 1, wherein when the command is not inputted from the input unit even if the vehicle travels a fixed distance after the output unit outputs	*See* claim 1. In GM's navigation device according to claim 1, when the command is not inputted from the input unit even if the vehicle travels a fixed distance after the output unit outputs the message showing that the vehicle has deviated from the route, the output unit deletes the message which said output unit outputs and the route searching unit re-searches for a new whole route leading to the destination via the first next waypoint, a new whole route leading to the destination via another waypoint when the other waypoint exists forward of said first next waypoint, or a new whole route leading to the destination when no other waypoint exists forward of said first next waypoint.

Claim	Claim Element	Evidence of Infringement
	the message showing that the vehicle has deviated from the route, the output unit deletes the message which said output unit outputs and the route searching unit re-searches for a new whole route leading to the destination via the first next waypoint, a new whole route leading to the destination via another waypoint when the other waypoint exists forward of said first next waypoint, or a new whole route leading to the destination when no other waypoint exists forward of said first next waypoint.	For example, when the command is not inputted from the input unit discussed above, *e.g.*, the "Drive to …" icon is not selected, even if the vehicle travels a fixed distance after the output unit discussed above outputs the "Drive to …" message showing that the vehicle has deviated from the route, the output unit deletes the "Drive to …" message and the route searching unit discussed above re-searches for a new whole route including leading to the destination via the first next waypoint. *See, e.g.*, **Arriving at a Waypoint** When approaching a waypoint, the system will display a Destination Arrival view. To continue on to the next destination touch the Drive to message on the infotainment display. If the vehicle passes the waypoint or gets out of the current route, the system will automatically reroute back to this waypoint. At the same time, it will show a Drive to icon along with the next waypoint address so the current waypoint can be skipped and guidance can resume to the next waypoint or destination. 2022 Chevrolet Silverado 2500 HD/3500 HD Owner's Manual, at p. 167, at https://www.chevrolet.com/bypass/pcf/gma-content-api/resources/sites/GMA/content/staging/MANUALS/5000/MA5553/en_US/4.0/22_CHEV_Silve

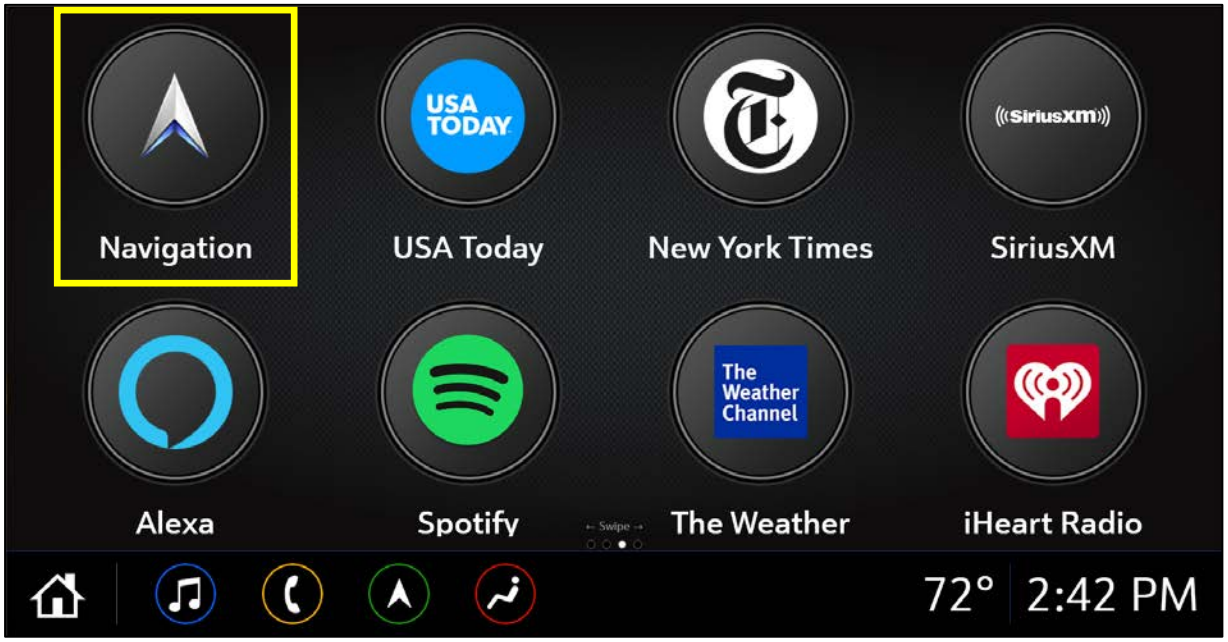
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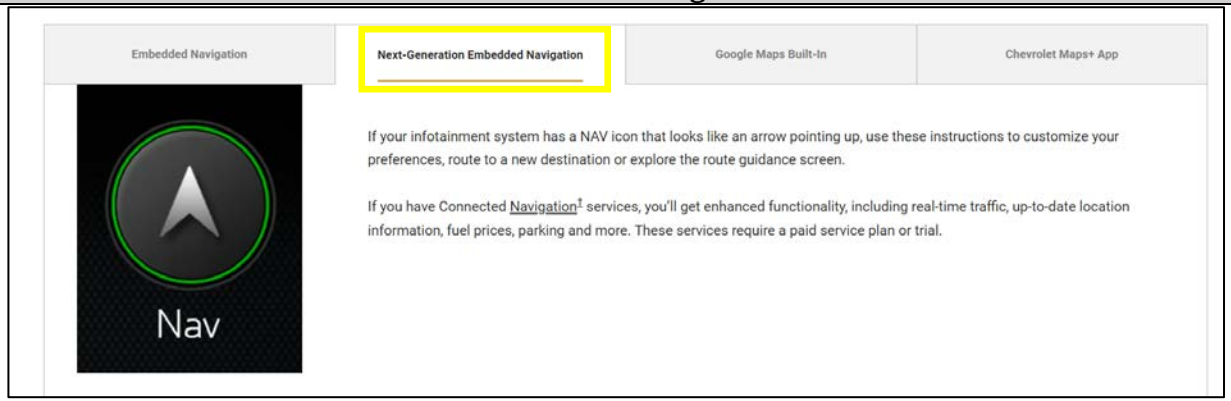
Claim	Claim Element	Evidence of Infringement
		rado_2500HD_3500HD_OM_en_US_U_84767841C_2022FEB28_3P.pdf (yellow annotations added) (MEL_GM_TECH_00001805). *See also:*  …

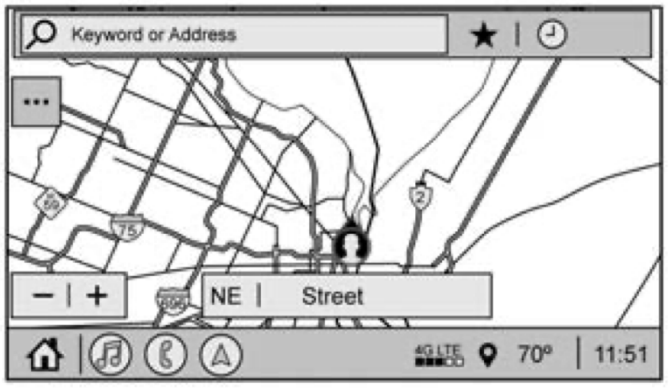
Claim	Claim Element	Evidence of Infringement
		 …

Claim	Claim Element	Evidence of Infringement
		 Photos of GM Infotainment 3 Plus System (yellow annotations added) (MEL_GM_TECH_00002525-MEL_GM_TECH_00002527).
19[a]	A navigation method performed by utilizing a navigation apparatus, comprising:	General Motors ("GM") or another direct infringer performs a navigation method performed by utilizing a navigation apparatus. For example, GM vehicles, including under the Chevrolet, GMC, Buick, and Cadillac brands, have a navigation system, such as Next-Generation Embedded Navigation on the Infotainment 3 Plus system (also referred to as the Next Generation Infotainment system) found in the, *inter alia*, 2022 Chevrolet Silverado 2500 HD. *See, e.g.*, Next-Generation Embedded Navigation:

Claim	Claim Element	Evidence of Infringement
		CHEVROLET  … 2022 SILVERADO HD … SPECIFICATIONS (CONTINUED) ● STANDARD ○ AVAILABLE – NOT AVAILABLE WT CUSTOM LT LTZ HIGH COUNTRY ENTERTAINMENT … Chevrolet Infotainment 3 Plus system with 8-inch diagonal HD color touch-screen, AM/FM stereo, Bluetooth audio streaming[2] for two active devices, voice command pass-through to compatible phone, wireless Apple CarPlay[3] and wireless Android Auto[4] compatibility, available Alexa Built-In,[5] voice recognition and available In-Vehicle Apps[6] (LT requires available Convenience Package II or Advanced Trailering Package) – – ○ ● – 2022 Chevy Silverado HD Brochure at https://www.chevrolet.com/content/dam/chevrolet/na/us/english/index/shopping-tools/download-catalog/08-pdf/2022-chevrolet-silverado-hd-ebrochure.pdf (yellow annotations added) (MEL_GM_TECH_00000020 and MEL_GM_TECH_00000051).

Claim	Claim Element	Evidence of Infringement
		See also:  Chevrolet Infotainment 3 Plus System Demo at https://chevroletdemo.com/invehicleapps (yellow annotations added) (MEL_GM_TECH_00002417). *See also:*

Claim	Claim Element	Evidence of Infringement
		 How to Use Navigation in Your Vehicle, Chevrolet, at https://www.chevrolet.com/support/vehicle/smartphone-connections/navigation/preferences (yellow annotations added) (MEL_GM_TECH_00002430). *See also* GMC Navigation at https://www.gmc.com/support/vehicle/smartphone-connections/navigation/preferences; Buick Navigation at https://www.buick.com/support/vehicle/smartphone-connections/navigation/preferences; and Cadillac Navigation at https://www.cadillac.com/support/vehicle/smartphone-connections/navigation/preferences. *See also:*

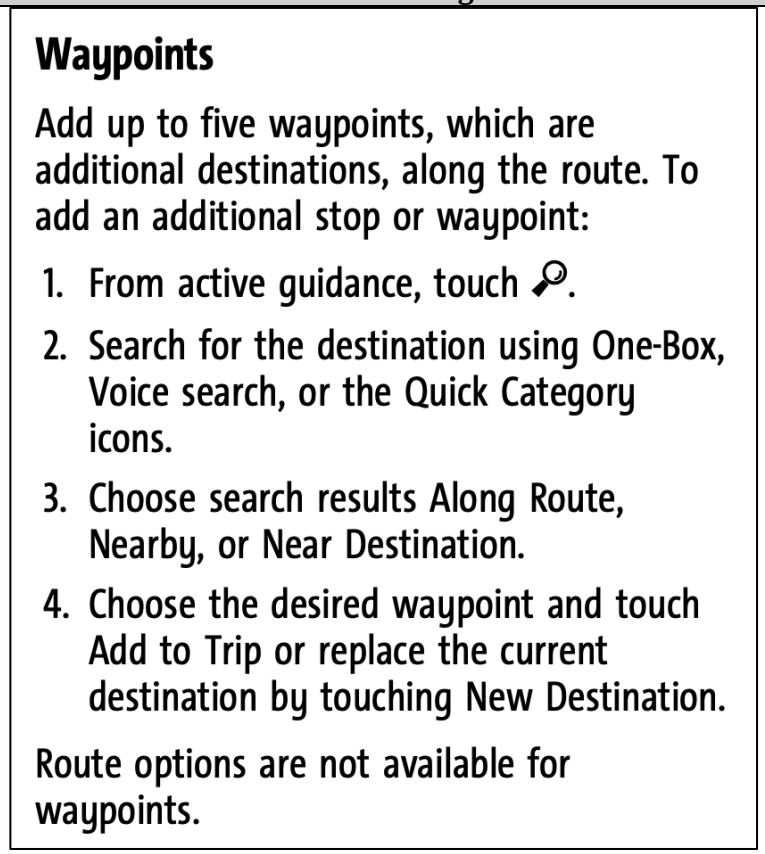
Claim	Claim Element	Evidence of Infringement
		Navigation Map View  … **Navigation** **Using the Navigation System** If equipped, launch the Nav application by touching the Nav icon on the Home Page or on the shortcut tray near the bottom of the infotainment display. 2022 Chevrolet Silverado 2500/3500 HD Owner Manual, at pp. 163-164 (available at https://my.chevrolet.com/content/dam/gmownercenter/gmna/dynamic/manuals/2022/chevrolet/silverado/2022-chevrolet-silverado-2500-hd-3500-hd-owners-manual.pdf) (MEL_GM_TECH_00001800-MEL_GM_TECH_00001801).

Claim	Claim Element	Evidence of Infringement
		For example, Next-Generation Embedded Navigation is equipped on and/or available for the exemplary 2022 Chevy Silverado 2500 HD (MEL_GM_TECH_00000020-MEL_GM_TECH_00000060) as well as other GM vehicles with the Infotainment 3 Plus system, including at least the 2022/2023 Chevy Trailblazer (MEL_GM_TECH_00000372-MEL_GM_TECH_00000390 and MEL_GM_TECH_00000755-MEL_GM_TECH_00000773), 2022/2023 Chevy Equinox (MEL_GM_TECH_00000001-MEL_GM_TECH_00000019 and MEL_GM_TECH_00000675-MEL_GM_TECH_00000694), 2022/2023 Chevy Blazer (MEL_GM_TECH_00000310-MEL_GM_TECH_00000331 and MEL_GM_TECH_00000559-MEL_GM_TECH_00000578), 2022/2023 Chevy Traverse (MEL_GM_TECH_00000391-MEL_GM_TECH_00000415 and MEL_GM_TECH_00000774-MEL_GM_TECH_00000798), 2022 Chevy Colorado (MEL_GM_TECH_00000348-MEL_GM_TECH_00000371), 2022/2023 Chevy Bolt EV (MEL_GM_TECH_00000416-MEL_GM_TECH_00000430 and MEL_GM_TECH_00000595-MEL_GM_TECH_00000609), 2022/2023 Chevy Bolt EUV (MEL_GM_TECH_00000332-MEL_GM_TECH_00000347 and MEL_GM_TECH_00000579-MEL_GM_TECH_00000594), 2022/2023 Chevy Malibu (MEL_GM_TECH_00000540-MEL_GM_TECH_00000558 and MEL_GM_TECH_00000695-MEL_GM_TECH_00000713), 2022/2023 Chevy Camaro (MEL_GM_TECH_00000278-MEL_GM_TECH_00000309 and MEL_GM_TECH_00000610-MEL_GM_TECH_00000642), 2022/2023 Chevy Corvette (MEL_GM_TECH_00000431-MEL_GM_TECH_00000460 and MEL_GM_TECH_00000643-MEL_GM_TECH_00000674), 2022 GMC Canyon (MEL_GM_TECH_00000945-MEL_GM_TECH_00000985), 2022 GMC Sierra 1500 Limited (MEL_GM_TECH_00001153-MEL_GM_TECH_00001182), 2022/2023 GMC Sierra 2500 HD/3500 HD (MEL_GM_TECH_00000881-MEL_GM_TECH_00000944 and MEL_GM_TECH_00001183-MEL_GM_TECH_00001246), 2022/2023 GMC Terrain (MEL_GM_TECH_00001072-MEL_GM_TECH_00001152), 2022/2023 GMC Acadia (MEL_GM_TECH_00000986-MEL_GM_TECH_00001071), 2022/2023 Buick Encore GX (MEL_GM_TECH_00000487-MEL_GM_TECH_00000512 and MEL_GM_TECH_00000799-MEL_GM_TECH_00000825), 2022/2023 Buick Envision (MEL_GM_TECH_00000513-MEL_GM_TECH_00000539 and MEL_GM_TECH_00000853-MEL_GM_TECH_00000880), 2022/2023 Buick Enclave (MEL_GM_TECH_00000461-MEL_GM_TECH_00000486 and MEL_GM_TECH_00000826-MEL_GM_TECH_00000852), 2022/2023 Cadillac XT4 (MEL_GM_TECH_00000150-

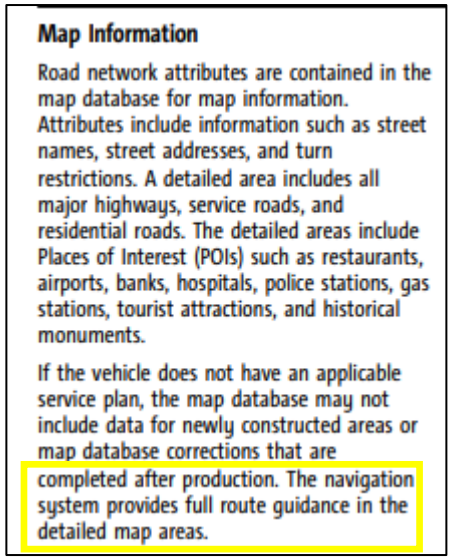
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Claim	Claim Element	Evidence of Infringement
		MEL_GM_TECH_00000163 and MEL_GM_TECH_00000237-MEL_GM_TECH_00000250), 2022/2023 Cadillac XT5 (MEL_GM_TECH_00000164-MEL_GM_TECH_00000175 and MEL_GM_TECH_00000251-MEL_GM_TECH_00000263), 2022/2023 Cadillac XT6 (MEL_GM_TECH_00000176-MEL_GM_TECH_00000188 and MEL_GM_TECH_00000264-MEL_GM_TECH_00000277), 2022/2023 Cadillac CT4 (MEL_GM_TECH_00000061-MEL_GM_TECH_00000075 and MEL_GM_TECH_00000189-MEL_GM_TECH_00000202), and 2022/2023 Cadillac CT5 (MEL_GM_TECH_00000094-MEL_GM_TECH_00000110 and MEL_GM_TECH_00000221-MEL_GM_TECH_00000236). *See, generally*, Chevrolet Brochures at https://www.chevrolet.com/download-catalog; GMC Brochures at https://www.gmc.com/download-2022-brochure and https://www.gmc.com/download-2023-brochure; Buick Brochures at https://www.buick.com/download-brochure; and Cadillac Brochures at https://www.cadillac.com/vehicle-brochures.
19[b]	setting, by utilizing a setting unit of the navigation apparatus, waypoints and a destination;	GM or another direct infringer sets, by utilizing a setting unit of the navigation apparatus, waypoints and a destination. For example, GM's navigation device has a setting unit to set waypoints, *e.g.*, stops and/or intermediary destinations on the way to the final destination, and a destination, *e.g.*, a final destination the route is guiding the vehicle to. *See, e.g.*,

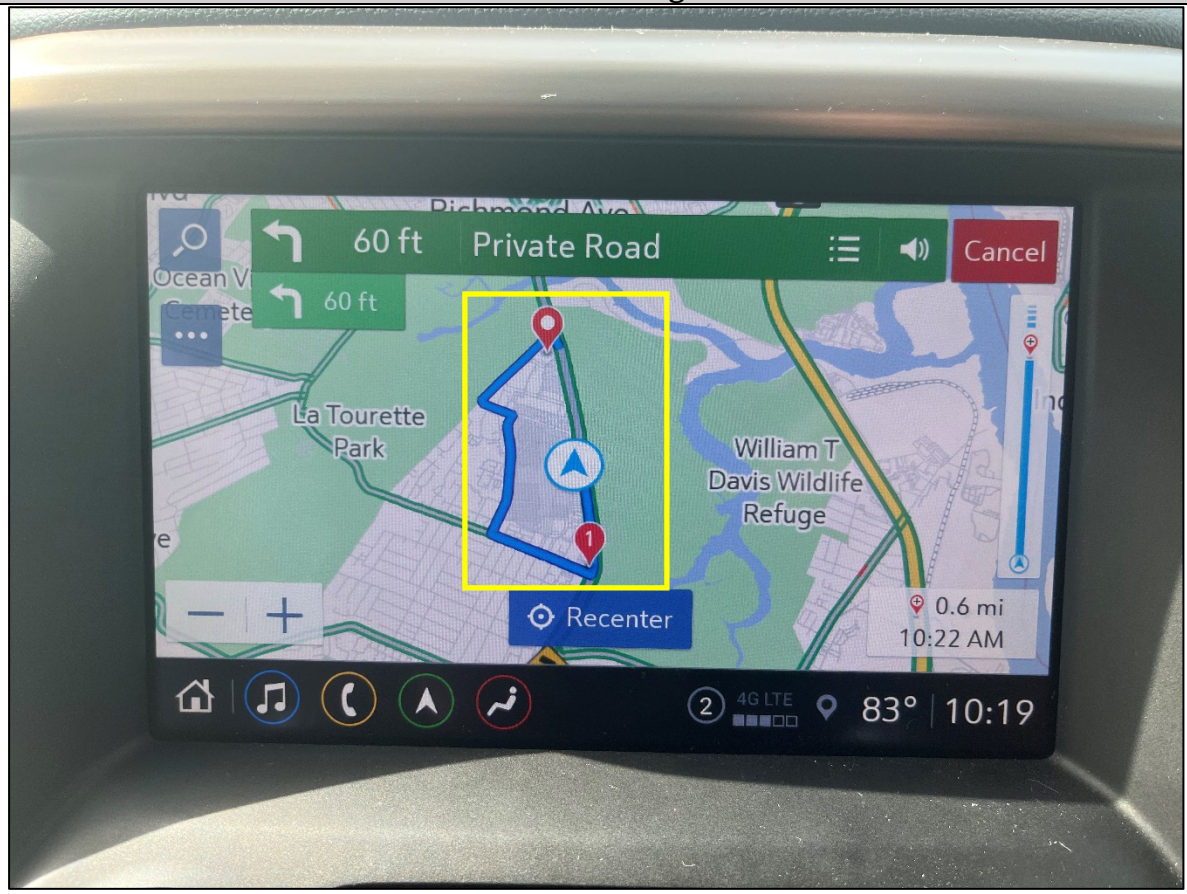
Hyundai Exhibit 1010, Page 72 of 86
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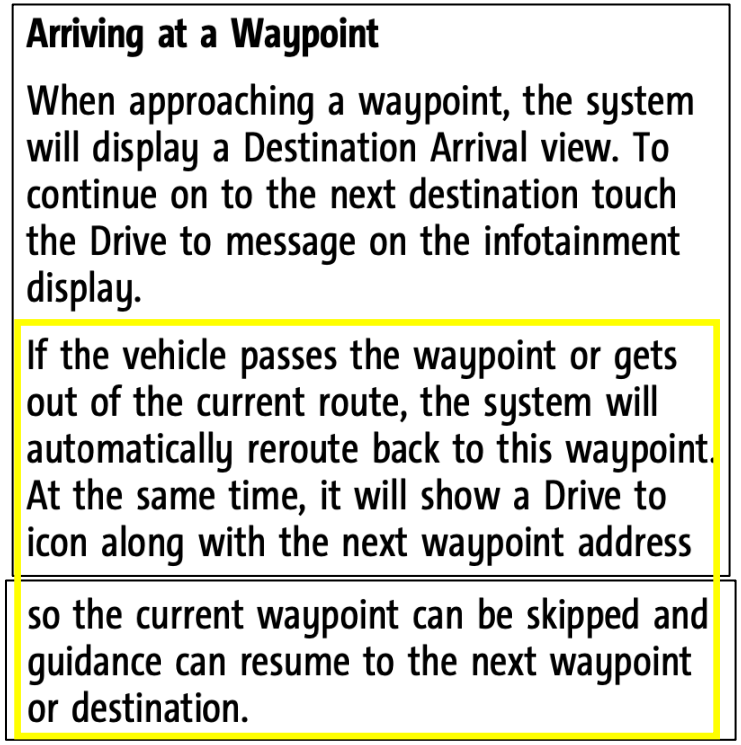
Claim	Claim Element	Evidence of Infringement
		 2022 Chevrolet Silverado 2500 HD/3500 HD Owner's Manual, at pp. 166-167, at https://www.chevrolet.com/bypass/pcf/gma-content-api/resources/sites/GMA/content/staging/MANUALS/5000/MA5553/en_US/4.0/22_CHEV_Silverado_2500HD_3500HD_OM_en_US_U_84767841C_2022FEB28_3P.pdf (MEL_GM_TECH_00001804- MEL_GM_TECH_00001805).
19[c]	searching, by utilizing a route searching unit of the	GM or another direct infringer searches, by utilizing a route searching unit of the navigation apparatus, for a whole route leading to the destination via the waypoints set by said setting step.

Claim	Claim Element	Evidence of Infringement
	navigation apparatus, for a whole route leading to the destination via the waypoints set by said setting step;	For example, GM's navigation device has a route searching unit that searches for a whole route leading to the destination discussed above (represented by red pin in the image below) via the waypoints discussed above (represented as a red pin with an alphanumeric character) set by the setting unit discussed above. *See, e.g.*,  Photo of GM Infotainment 3 Plus System (yellow annotations added) (MEL_GM_TECH_00002533).

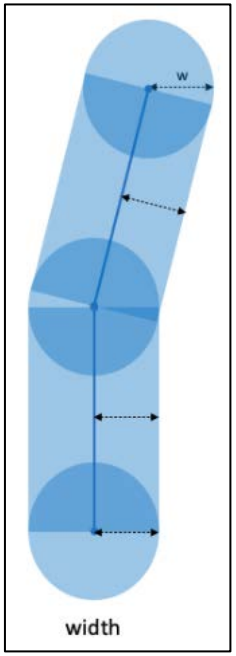
Claim	Claim Element	Evidence of Infringement
		See also:  **Map Information** Road network attributes are contained in the map database for map information. Attributes include information such as street names, street addresses, and turn restrictions. A detailed area includes all major highways, service roads, and residential roads. The detailed areas include Places of Interest (POIs) such as restaurants, airports, banks, hospitals, police stations, gas stations, tourist attractions, and historical monuments. If the vehicle does not have an applicable service plan, the map database may not include data for newly constructed areas or map database corrections that are completed after production. The navigation system provides full route guidance in the detailed map areas. 2022 Chevrolet Silverado 2500 HD/3500 HD Owner's Manual, at p. 169, at https://www.chevrolet.com/bypass/pcf/gma-content-api/resources/sites/GMA/content/staging/MANUALS/5000/MA5553/en_US/4.0/22_CHEV_Silverado_2500HD_3500HD_OM_en_US_U_84767841C_2022FEB28_3P.pdf (yellow annotations added) (MEL_GM_TECH_00001807).
19[d]	carrying out, by utilizing a route guidance unit of the navigation apparatus, route guidance according to the whole route which is searched for by said route searching step;	GM or another direct infringer carries out, by utilizing a route guidance unit of the navigation apparatus, route guidance according to the whole route which is searched for by said route searching step. For example, GM's navigation device has a route guidance unit to carry out route guidance directing the vehicle to the destination(s) according to the whole route searched for by the route searching unit discussed above. *See, e.g.,*

Claim	Claim Element	Evidence of Infringement
		 Photo of GM Infotainment 3 Plus System (yellow annotations added) (MEL_GM_TECH_00002533). *See also:*

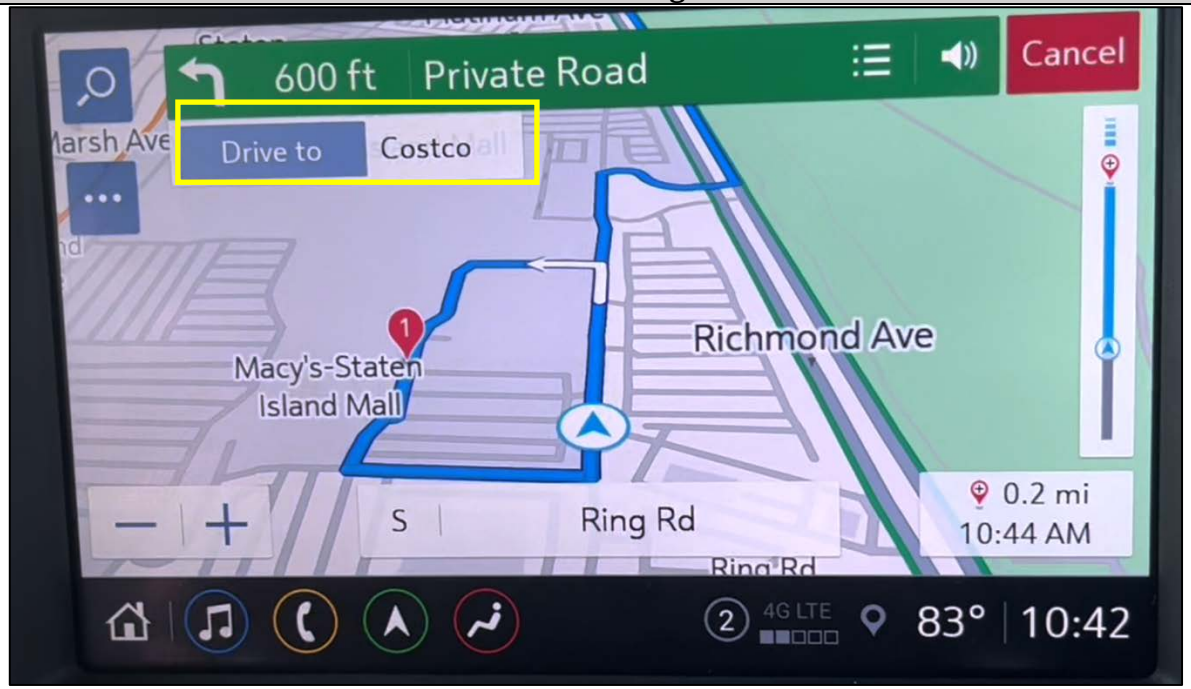
Claim	Claim Element	Evidence of Infringement
		 Photo of GM Infotainment 3 Plus System (yellow annotations added) (MEL_GM_TECH_00002534).
19[e]	outputting, by utilizing an output unit of the navigation apparatus, a message showing that a	GM or another direct infringer outputs, by utilizing an output unit of the navigation apparatus, a message showing that a vehicle has deviated from a route leading to a first next waypoint toward which the vehicle has been heading when, by said route guidance step, it is determined that the vehicle has deviated from the route to a predetermined distance or more and is traveling along a route after said first next waypoint.

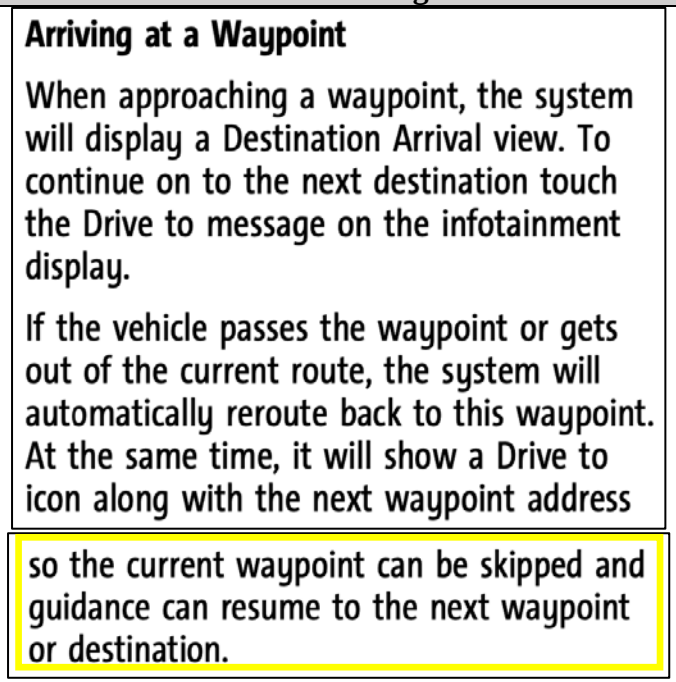
Claim	Claim Element	Evidence of Infringement
	vehicle has deviated from a route leading to a first next waypoint toward which the vehicle has been heading when, by said route guidance step, it is determined that the vehicle has deviated from the route to a predetermined distance or more and is traveling along a route after said first next waypoint; and	For example, GM's navigation device has an output unit, *e.g.*, a display screen, to output a message, *e.g.*, a "Drive to …" icon with the next waypoint address, when the route guidance unit discussed above determines that the vehicle has deviated from a route leading to the next waypoint that the vehicle was headed towards. *See, e.g.*,  **Arriving at a Waypoint** When approaching a waypoint, the system will display a Destination Arrival view. To continue on to the next destination touch the Drive to message on the infotainment display. If the vehicle passes the waypoint or gets out of the current route, the system will automatically reroute back to this waypoint. At the same time, it will show a Drive to icon along with the next waypoint address so the current waypoint can be skipped and guidance can resume to the next waypoint or destination. 2022 Chevrolet Silverado 2500 HD/3500 HD Owner's Manual, at p. 167, at https://www.chevrolet.com/bypass/pcf/gma-content-api/resources/sites/GMA/content/staging/MANUALS/5000/MA5553/en_US/4.0/22_CHEV_Silverado_2500HD_3500HD_OM_en_US_U_84767841C_2022FEB28_3P.pdf (yellow annotations added) (MEL_GM_TECH_00001805).

Claim	Claim Element	Evidence of Infringement
		See also: **Map End User License Agreement** **END USER TERMS** The Map Data SD card ("Data") is provided for your personal, internal use only and not for resale. It is protected by copyright, and is subject to the following terms (this "End User License Agreement") and conditions which are agreed to by you, on the one hand, and HERE North America, LLC ("HERE") and its licensors (including their licensors and suppliers) on the other hand. 2022 Chevrolet Silverado 2500 HD/3500 HD Owner's Manual, at p. 197, at https://www.chevrolet.com/bypass/pcf/gma-content-api/resources/sites/GMA/content/staging/MANUALS/5000/MA5553/en_US/4.0/22_CHEV_Silverado_2500HD_3500HD_OM_en_US_U_84767841C_2022FEB28_3P.pdf (MEL_GM_TECH_00001835). *See also:* Listener Name — Purpose … RerouteListener — Whether a route recalculation has begun as a result of the current position deviating from the original route …

Claim	Claim Element	Evidence of Infringement
		Rerouting While navigation is in progress, the following three types of rerouting can occur: • Basic Route Recalculation - This is performed automatically by the guidance engine. The guidance engine checks the current position to see if it is on the route and approaching the target destination. If it is not, then it triggers a route recalculation and updates the navigation session. `RerouteListener.onRerouteBegin()` and `RerouteListener.onRerouteEnd(RouteResult, RoutingError)` callbacks also occur. Navigation Events, HERE Developer, at https://developer.here.com/documentation/android-premium/dev_guide/topics/map-guidance-events.html (MEL_GM_TECH_00002443). *See also:*  Implementing Search Along The Route, HERE Developer, at https://developer.here.com/documentation/geocoding-search-api/dev_guide/topics/implementing-route.html (MEL_GM_TECH_00002446).

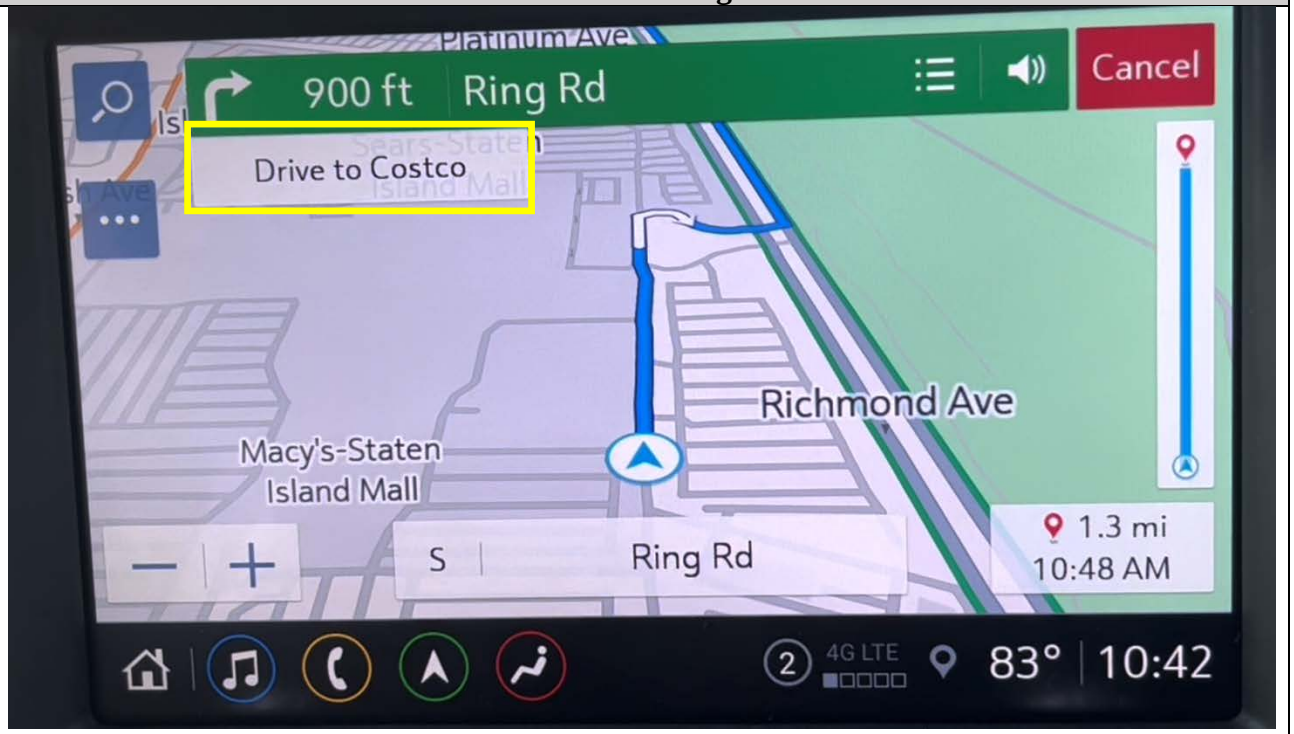
Claim	Claim Element	Evidence of Infringement
		See also:  …

Claim	Claim Element	Evidence of Infringement
		 Photos of GM Infotainment 3 Plus System (yellow annotations added) (MEL_GM_TECH_00002519-MEL_GM_TECH_00002520).
19[f]	inputting, by utilizing an input unit of the navigation apparatus, a command indicating whether or not to travel via said first next waypoint in response to the outputted message.	GM or another direct infringer inputs, by utilizing an input unit of the navigation apparatus, a command indicating whether or not to travel via said first next waypoint in response to the outputted message. For example, GM's navigation device has an input unit, *e.g.*, touchscreen and/or button configured to input a command indicating whether or not to travel to the next waypoint/final destination discussed above, including to skip a waypoint, in response to the message outputted by the output unit discussed above. *See, e.g.,*

Claim	Claim Element	Evidence of Infringement
		 2022 Chevrolet Silverado 2500 HD/3500 HD Owner's Manual, at p. 167, at https://www.chevrolet.com/bypass/pcf/gma-content-api/resources/sites/GMA/content/staging/MANUALS/5000/MA5553/en_US/4.0/22_CHEV_Silverado_2500HD_3500HD_OM_en_US_U_84767841C_2022FEB28_3P.pdf (yellow annotations added) (MEL_GM_TECH_00001805). *See also:*

Claim	Claim Element	Evidence of Infringement
		 …

Claim	Claim Element	Evidence of Infringement
		 …

Claim	Claim Element	Evidence of Infringement
		 Photos of GM Infotainment 3 Plus System (yellow annotations added) (MEL_GM_TECH_00002521-MEL_GM_TECH_00002523).