

Civil Action No. 2:23-cv-00176-JRG
MEL NavIP LLC v. Hyundai Motor Company et al.

Exhibit C

U.S. Patent No. 8,244,465 – Hyundai Navigation Systems And Software

The following claim chart includes illustrations, diagrams, and references relating to exemplary Hyundai, Kia, and Genesis (collectively referred to as “Hyundai” for brevity herein) vehicles’ navigation systems, including the Standard 5th Generation Wide (“Gen5W”) and Premium 6th Generation (“Gen6”) infotainment systems. Various systems, components, model numbers, and technical excerpts specifically cited herein are intended to illustrate theories of infringement and are not intended to exclude other Hyundai systems or components from allegations of infringement. Upon information and belief, including based on public information and information appearing on Hyundai’s website, the infringement contentions and evidence of infringement set forth in these charts apply to each Hyundai vehicle equipped with Gen5W or Gen6 infotainment systems having navigation functionality, 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 system comprising:	Hyundai vehicles comprise a navigation system. For example, Hyundai, Kia, and Genesis (collectively, “Hyundai”) vehicles have a navigation system, such as the Standard 5th Generation Wide (“Gen5W”) infotainment system found in the, <i>inter alia</i> , 2022 Kia EV6. <i>See, e.g.,</i>

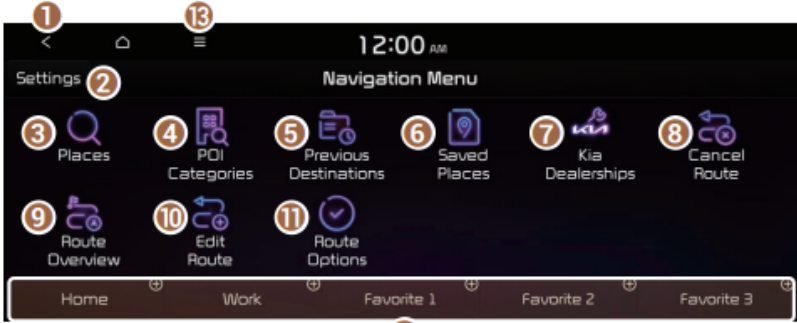
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Claim	Claim Element	Evidence of Infringement
		 ...  ...  ... Charging network integration connects you with 40,000+ charging stations throughout the US — including 400V DC fast chargers³ and higher — guiding you to the nearest charger along your route via the Navigation⁸ system. 2022 KIA EV6 Brochure, at pp. 1, 7 (MEL_HYUN_TECH_00000412, MEL_HYUN_TECH_00000418).

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Claim	Claim Element	Evidence of Infringement
		See also: Navigation Menu overview You can use the navigation system conveniently through various functions on the Navigation Menu screen. Perform any of the following methods: - On the All Menus screen, press Navigation Menu. - On the control panel, press the [NAV] button.  2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-2, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000552). See also:

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Claim	Claim Element	Evidence of Infringement																																							
		Map screen The map screen provides various functions and informations, as follows:  2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-6, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000556). See also: <table><tr><th>Vehicle</th><th>Model</th><th>Navigation System</th><th>SW Version</th><th>MAP Version</th><th>Model Name</th></tr><tr><td rowspan="3">Cadenza</td><td>2017-18 Cadenza</td><td>Standard Gen4 Navigation</td><td>ST.YG.USA.E542.230419</td><td>NAM.16.41.41.712.003.3</td><td>YGAS.S4AMN.US</td></tr><tr><td>2019 Cadenza</td><td>Standard Gen5 Navigation</td><td>YG19.USA.SOPV136.230410.STD_H</td><td>NAM.16.41.71.012.302.9</td><td>YGAS.S5AMC.US</td></tr><tr><td>2020 Cadenza</td><td>Standard Gen5W Navigation</td><td>YGPE.USA.S5W_M.V010.001.230517</td><td>NAM.16.41.71.012.512.0</td><td>YGP19S.S5CMC.US</td></tr><tr><td rowspan="2">Carnival</td><td>2022 Carnival</td><td>Standard Gen5W Navigation</td><td>KA4.USA.S5W_M.V010.001.230517</td><td>NAM.16.41.71.012.512.0</td><td>KA4AS.S5BMC.US</td></tr><tr><td>2023 Carnival</td><td>Standard Gen5W Navigation</td><td>KA4_23.USA.S5W_M.V010.001.230517</td><td>NAM.16.41.71.012.512.0</td><td>KA4CS.S5BMC.US</td></tr><tr><td>EV6</td><td>2022-23 EV6</td><td>Standard Gen5W Navigation</td><td>CV_E.USA.S5W_M.V010.001.230517</td><td>NAM.16.41.71.012.512.0</td><td>CVAE.S5BMC.US</td></tr></table> KIA Navigation Systems Overview at https://update.kia.com/US/EN/updateNoticePopup/IF1boL (MEL_HYUN_TECH_00000037) (yellow annotations added).	Vehicle	Model	Navigation System	SW Version	MAP Version	Model Name	Cadenza	2017-18 Cadenza	Standard Gen4 Navigation	ST.YG.USA.E542.230419	NAM.16.41.41.712.003.3	YGAS.S4AMN.US	2019 Cadenza	Standard Gen5 Navigation	YG19.USA.SOPV136.230410.STD_H	NAM.16.41.71.012.302.9	YGAS.S5AMC.US	2020 Cadenza	Standard Gen5W Navigation	YGPE.USA.S5W_M.V010.001.230517	NAM.16.41.71.012.512.0	YGP19S.S5CMC.US	Carnival	2022 Carnival	Standard Gen5W Navigation	KA4.USA.S5W_M.V010.001.230517	NAM.16.41.71.012.512.0	KA4AS.S5BMC.US	2023 Carnival	Standard Gen5W Navigation	KA4_23.USA.S5W_M.V010.001.230517	NAM.16.41.71.012.512.0	KA4CS.S5BMC.US	EV6	2022-23 EV6	Standard Gen5W Navigation	CV_E.USA.S5W_M.V010.001.230517	NAM.16.41.71.012.512.0	CVAE.S5BMC.US
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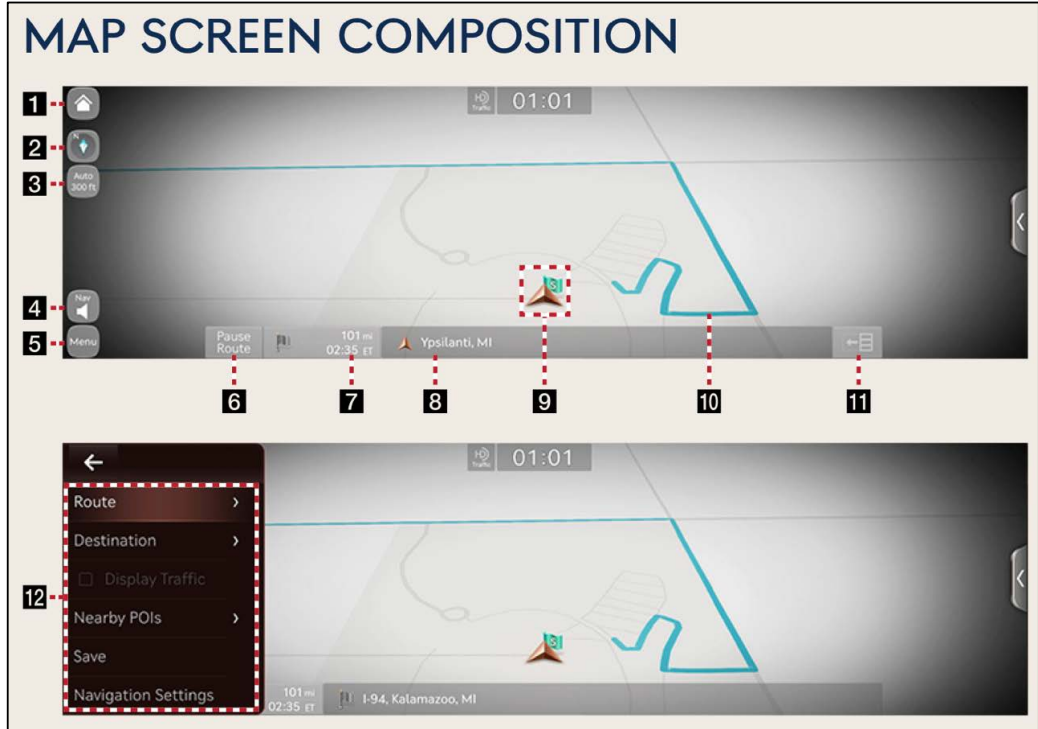
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Claim	Claim Element	Evidence of Infringement
		For example, the navigation system of the Standard Gen5W infotainment system is equipped on the exemplary 2022 Kia EV6 as well as at least the 2022/2023 Hyundai Elantra, 2022/2023 Hyundai Elantra Hybrid, 2022/2023 Hyundai Elantra N, 2022/2023 Hyundai Ioniq 5, 2022 Hyundai Ioniq Electric, 2022 Hyundai Ioniq Hybrid, 2022 Hyundai Ioniq Plug-in Hybrid, 2023 Hyundai Ioniq 6, 2022/2023 Hyundai Kona, 2022/2023 Hyundai Kona Electric, 2022/2023 Hyundai Kona N, 2023 Hyundai Nexo Fuel Cell, 2022/2023 Hyundai Palisade, 2022/2023 Hyundai Santa Cruz, 2022/2023 Hyundai Santa Fe, 2022/2023 Hyundai Santa Fe Hybrid, 2022/2023 Hyundai Santa Fe Plug-in Hybrid, 2022/2023 Hyundai Sonata, 2022/2023 Hyundai Sonata Hybrid, 2022/2023 Hyundai Tucson, 2022/2023 Hyundai Tucson Hybrid, 2022/2023 Hyundai Tucson Plug-in Hybrid, 2022 Veloster N, 2022/2023 Hyundai Venue, 2022/2023 Kia Carnival, 2023 Kia EV6, 2022 Kia Forte 4Door, 2022/2023 Kia K5, 2022 Kia Niro, 2022/2023 Kia Niro Electric, 2023 Kia Niro Hybrid, 2022/2023 Kia Niro Plug-in Hybrid, 2022/2023/2024 Kia Seltos, 2022/2023 Kia Sorento, 2022/2023 Kia Sorento Hybrid, 2022/2023 Kia Sorento Plug-in Hybrid, 2022/2023 Kia Soul, 2022 Kia Soul Electric, 2022/2023 Kia Sportage, 2022/2023 Kia Sportage Hybrid, 2022/2023 Kia Sportage Plug-in Hybrid, 2022/2023 Kia Stingray, 2022/2023 Kia Telluride, and 2022/2023 Genesis G70. See https://update.hyundai.com/US/EN/updateNoticePopup/bapU9Q (MEL_HYUN_TECH_00000035-MEL_HYUN_TECH_00000036); see also https://update.kia.com/US/EN/updateNoticePopup/IF1boL (MEL_HYUN_TECH_00000037-MEL_HYUN_TECH_00000038); see also https://update.genesis.com/US/EN/updateNoticePopup/njAeO8 (MEL_HYUN_TECH_00000039). For example, Hyundai vehicles have a navigation device, such as the Premium 6th Generation (“Gen6”) infotainment system found in the, <i>inter alia</i>, 2021 Genesis G80. <i>See, e.g.,</i>

Claim	Claim Element	Evidence of Infringement
		 Navigation – Routing Genesis G80 and GV80 How-To Genesis USA, at 1:00, at https://www.youtube.com/watch?v=aM90psllpM8 (MEL_HYUN_TECH_00001317). <i>See also:</i> Thank you for purchasing this Gen6 Premium Class Navigation. This user's manual explains how to use the Gen6 Premium Class Navigation. Before using the product, read the contents of this user's manual carefully and use this product safely.

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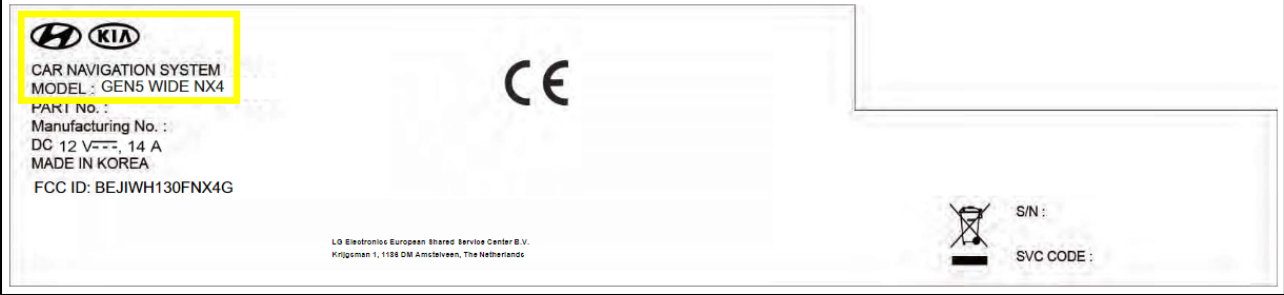
Claim	Claim Element	Evidence of Infringement
		Gen 6 Premium Class Navigation, 2021 Genesis G80, Owner's Manual Warranty, at p. 2, at https://owners.genesis.com/genesis/us/mygenesis/manuals/glovebox-manual/2021/g80/2021-G80-Gen6-Premium-Navigation-Manual.PDF (MEL_HYUN_TECH_00000104). See also:  Gen 6 Premium Class Navigation, 2021 Genesis G80, Owner's Manual Warranty, at p. 27, at https://owners.genesis.com/genesis/us/mygenesis/manuals/glovebox-manual/2021/g80/2021-G80-Gen6-Premium-Navigation-Manual.PDF (MEL_HYUN_TECH_00000129).

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		For example, the navigation system of the Gen6 infotainment system is equipped on the exemplary 2021 Genesis G80 as well as at least the 2023 Genesis Electrified G80, 2022/2023 Genesis G80, 2022/2023 Genesis GV70, 2023 Genesis Electrified GV70, and 2022/2023/2024 Genesis GV80.																																																																																																																																																													
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Touchscreen)</td><td>Premium Gen2 Navigation</td><td>DHPE.USA.SOP.xx.017</td><td>NAM.16.41.41.712.102.3</td><td>DHBS.P2ALC.NA</td></tr><tr><td>2019 G80 (9.2 in. Touchscreen)</td><td>Premium Gen2 Navigation</td><td>DH18MY.USA.SOP.xx.017</td><td>NAM.16.41.41.712.102.3</td><td>DHCS.P2ALC.NA</td></tr><tr><td>2019-20 G80 (8 in. Touchscreen)</td><td>Standard Gen5 Navigation</td><td>DH19.USA.SOP.V136.230410.STD_H</td><td>NAM.16.41.71.012.302.9</td><td>DHAS.S5AMC.US</td></tr><tr><td>2020 G80 (9.2 in. Touchscreen)</td><td>Premium Gen5 Navigation</td><td>DH19MY.USA.P5.001.011.230426</td><td>NAM.16.41.71.012.402.0</td><td>DHAS.P5ALC.NA</td></tr><tr><td>2021 G80</td><td>Premium Gen6 Navigation</td><td>RG3.USA.P6.001.006.230420</td><td>NAM.16.41.71.012.914.0</td><td>RG3AS.P6CLC.US</td></tr><tr><td>2022 G80</td><td>Premium Gen6 Navigation</td><td>RG3_22.USA.P6.001.006.230420</td><td>NAM.16.41.71.012.914.0</td><td>RG3BS.P6CLC.US</td></tr><tr><td>2023 G80</td><td>Premium Gen6 Navigation</td><td>RG3_22.USA.P6.001.006.230420</td><td>NAM.16.41.71.012.914.0</td><td>RG3BS.P6CLC.US</td></tr><tr><td rowspan="4">G90</td><td>2017-19 G90</td><td>Harman DIS2</td><td>R31.0.013A</td><td>DB_HMCDIS2S_NA_NA_S_0000_E01.0035</td><td>P.AVN3</td></tr><tr><td>2020 G90</td><td>Premium Gen5 Navigation</td><td>HI.USA.P5.001.011.230426</td><td>NAM.16.41.71.012.402.0</td><td>HIAS.P5BLC.NA</td></tr><tr><td>2021-22 G90</td><td>Premium Gen5 Navigation</td><td>HI.USA.P5.001.011.230426</td><td>NAM.16.41.71.012.402.0</td><td>HIBS.P5BLC.NA</td></tr><tr><td>2023 G90</td><td>ccIC Navigation</td><td>RS4.USA.ccIC.001.005.230523</td><td>NAM.16.41.71.012.918.0</td><td>RS4AS.PCBLC.US</td></tr><tr><td>GV60</td><td>2023 GV60</td><td>ccIC Navigation</td><td>JW.USA.ccIC.001.005.230523</td><td>NAM.16.41.71.012.918.0</td><td>JWAE.PCBLC.US</td></tr><tr><td rowspan="2">GV70</td><td>2022 GV70</td><td>Premium Gen6 Navigation</td><td>JK1.USA.P6.001.006.230420</td><td>NAM.16.41.71.012.914.0</td><td>JK1AS.P6CLC.US</td></tr><tr><td>2023 GV70</td><td>Premium Gen6 Navigation</td><td>JK1.USA.P6.001.006.230420</td><td>NAM.16.41.71.012.914.0</td><td>JK1AS.P6CLN.A.US</td></tr><tr><td rowspan="4">GV80</td><td>2021 GV80</td><td>Premium Gen6 Navigation</td><td>JX1.USA.P6.001.006.230420</td><td>NAM.16.41.71.012.914.0</td><td>JX1AS.P6CLC.US</td></tr><tr><td>2022 GV80</td><td>Premium Gen6 Navigation</td><td>JX1_22.USA.P6.001.006.230420</td><td>NAM.16.41.71.012.914.0</td><td>JX1BS.P6CLC.US</td></tr><tr><td>2023 GV80</td><td>Premium Gen6 Navigation</td><td>JX1_22.USA.P6.001.006.230420</td><td>NAM.16.41.71.012.914.0</td><td>JX1BS.P6CLC.US</td></tr><tr><td>2024 GV80</td><td>Premium Gen6 Navigation</td><td>JX1_22.USA.P6.001.006.230420</td><td>NAM.16.41.71.012.914.0</td><td>JX1BS.P6CLC.US</td></tr></table>					Vehicle	Model	Navigation System	SW Version	MAP Version	Model Name	Electrified G80	2023 Electrified G80	Premium Gen6 Navigation	RG3.USA.P6.001.006.230420	NAM.16.41.71.012.914.0	RG3AE.P6CLC.US	G70	2019-21 G70	Standard Gen5 Navigation	IK.USA.SOP.V136.230410.STD_H	NAM.16.41.71.012.302.9	IKAS.S5AMC.US	2022-23 G70	Standard Gen5W Navigation	IKFL.USA.S5W_M.V010.001.230517	NAM.16.41.71.012.512.0	IKFAS.S5BMC.US	G80	2014-16 G80 (8 in. Touchscreen)	Standard Gen4 Navigation	ST.DH.USA.E542.230419	NAM.16.41.41.712.003.3	DHAS.S4AMC.US	2014 G80 (9.2 in. Touchscreen)	Premium Gen2 Navigation	DH.USA.SOP.xx.030	NAM.16.41.41.712.102.3	DHAS.P2ALC.NA	2015 G80 (9.2 in. Touchscreen)	Premium Gen2 Navigation	DH15MY.USA.SOP.xx.030	NAM.16.41.41.712.102.3	DHAS.P2ALC.NA	2016 G80 (9.2 in. Touchscreen)	Premium Gen2 Navigation	DH16MY.USA.SOP.xx.030	NAM.16.41.41.712.102.3	DHAS.P2ALC.NA	2017 G80 (9.2 in. Touchscreen)	Premium Gen2 Navigation	DH17MY.USA.SOP.xx.030	NAM.16.41.41.712.102.3	DHAS.P2ALC.NA	2017 G80 (8 in. Touchscreen)	Standard Gen4 Navigation	ST.DH17.USA.E542.230419	NAM.16.41.41.712.003.3	DHBS.S4AMC.US	2018 G80 (8 in. Touchscreen)	Standard Gen4 Navigation	ST.DHPE.USA.E542.230419	NAM.16.41.41.712.003.3	DHCS.S4AMN.US	2018 G80 (9.2 in. Touchscreen)	Premium Gen2 Navigation	DHPE.USA.SOP.xx.017	NAM.16.41.41.712.102.3	DHBS.P2ALC.NA	2019 G80 (9.2 in. 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	2015 G80 (9.2 in. Touchscreen)	Premium Gen2 Navigation	DH15MY.USA.SOP.xx.030	NAM.16.41.41.712.102.3	DHAS.P2ALC.NA																																																																																																																																																										
	2016 G80 (9.2 in. Touchscreen)	Premium Gen2 Navigation	DH16MY.USA.SOP.xx.030	NAM.16.41.41.712.102.3	DHAS.P2ALC.NA																																																																																																																																																										
	2017 G80 (9.2 in. Touchscreen)	Premium Gen2 Navigation	DH17MY.USA.SOP.xx.030	NAM.16.41.41.712.102.3	DHAS.P2ALC.NA																																																																																																																																																										
	2017 G80 (8 in. Touchscreen)	Standard Gen4 Navigation	ST.DH17.USA.E542.230419	NAM.16.41.41.712.003.3	DHBS.S4AMC.US																																																																																																																																																										
	2018 G80 (8 in. Touchscreen)	Standard Gen4 Navigation	ST.DHPE.USA.E542.230419	NAM.16.41.41.712.003.3	DHCS.S4AMN.US																																																																																																																																																										
	2018 G80 (9.2 in. Touchscreen)	Premium Gen2 Navigation	DHPE.USA.SOP.xx.017	NAM.16.41.41.712.102.3	DHBS.P2ALC.NA																																																																																																																																																										
	2019 G80 (9.2 in. Touchscreen)	Premium Gen2 Navigation	DH18MY.USA.SOP.xx.017	NAM.16.41.41.712.102.3	DHCS.P2ALC.NA																																																																																																																																																										
	2019-20 G80 (8 in. Touchscreen)	Standard Gen5 Navigation	DH19.USA.SOP.V136.230410.STD_H	NAM.16.41.71.012.302.9	DHAS.S5AMC.US																																																																																																																																																										
	2020 G80 (9.2 in. Touchscreen)	Premium Gen5 Navigation	DH19MY.USA.P5.001.011.230426	NAM.16.41.71.012.402.0	DHAS.P5ALC.NA																																																																																																																																																										
	2021 G80	Premium Gen6 Navigation	RG3.USA.P6.001.006.230420	NAM.16.41.71.012.914.0	RG3AS.P6CLC.US																																																																																																																																																										
	2022 G80	Premium Gen6 Navigation	RG3_22.USA.P6.001.006.230420	NAM.16.41.71.012.914.0	RG3BS.P6CLC.US																																																																																																																																																										
	2023 G80	Premium Gen6 Navigation	RG3_22.USA.P6.001.006.230420	NAM.16.41.71.012.914.0	RG3BS.P6CLC.US																																																																																																																																																										
G90	2017-19 G90	Harman DIS2	R31.0.013A	DB_HMCDIS2S_NA_NA_S_0000_E01.0035	P.AVN3																																																																																																																																																										
	2020 G90	Premium Gen5 Navigation	HI.USA.P5.001.011.230426	NAM.16.41.71.012.402.0	HIAS.P5BLC.NA																																																																																																																																																										
	2021-22 G90	Premium Gen5 Navigation	HI.USA.P5.001.011.230426	NAM.16.41.71.012.402.0	HIBS.P5BLC.NA																																																																																																																																																										
	2023 G90	ccIC Navigation	RS4.USA.ccIC.001.005.230523	NAM.16.41.71.012.918.0	RS4AS.PCBLC.US																																																																																																																																																										
GV60	2023 GV60	ccIC Navigation	JW.USA.ccIC.001.005.230523	NAM.16.41.71.012.918.0	JWAE.PCBLC.US																																																																																																																																																										
GV70	2022 GV70	Premium Gen6 Navigation	JK1.USA.P6.001.006.230420	NAM.16.41.71.012.914.0	JK1AS.P6CLC.US																																																																																																																																																										
	2023 GV70	Premium Gen6 Navigation	JK1.USA.P6.001.006.230420	NAM.16.41.71.012.914.0	JK1AS.P6CLN.A.US																																																																																																																																																										
GV80	2021 GV80	Premium Gen6 Navigation	JX1.USA.P6.001.006.230420	NAM.16.41.71.012.914.0	JX1AS.P6CLC.US																																																																																																																																																										
	2022 GV80	Premium Gen6 Navigation	JX1_22.USA.P6.001.006.230420	NAM.16.41.71.012.914.0	JX1BS.P6CLC.US																																																																																																																																																										
	2023 GV80	Premium Gen6 Navigation	JX1_22.USA.P6.001.006.230420	NAM.16.41.71.012.914.0	JX1BS.P6CLC.US																																																																																																																																																										
	2024 GV80	Premium Gen6 Navigation	JX1_22.USA.P6.001.006.230420	NAM.16.41.71.012.914.0	JX1BS.P6CLC.US																																																																																																																																																										

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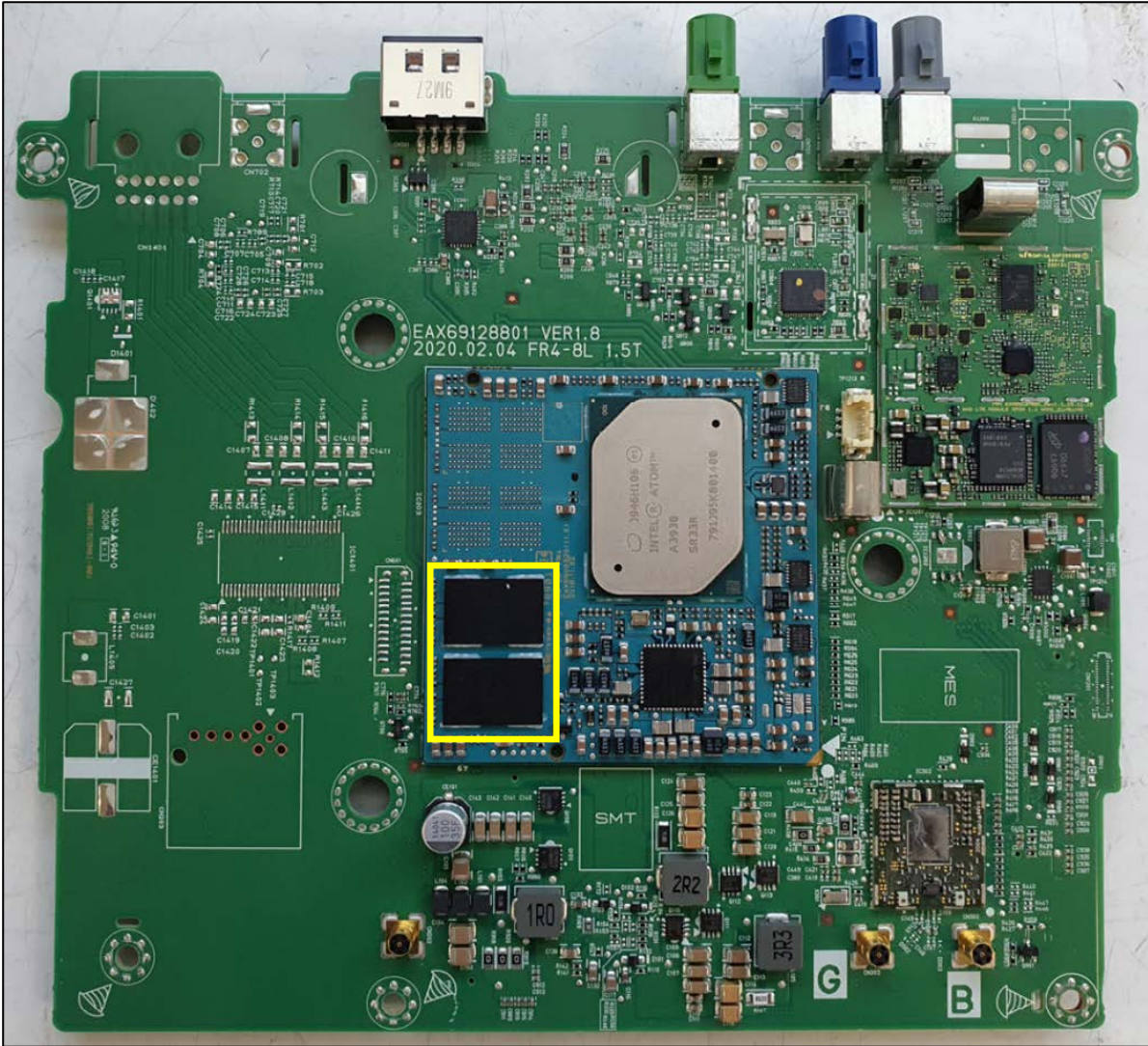
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Claim	Claim Element	Evidence of Infringement
		Genesis Navigation Systems Overview at https://update.genesis.com/US/EN/updateNoticePopup/njAeO8 (MEL_HYUN_TECH_00000039) (yellow annotations added).
1[b]	a map data storage section for storing map data together with attributes and classes of the map data, the map data being composed of roads necessary for a route search and display elements including city centers and facilities, and the city centers being a display element each representing a city and indicating a representative position of the city, wherein the attributes are indicative of whether or not each of the roads should be displayed for each of a plurality of map scales;	Hyundai's navigation system comprises a map data storage section for storing map data together with attributes and classes of the map data, the map data being composed of roads necessary for a route search and display elements including city centers and facilities, and the city centers being a display element each representing a city and indicating a representative position of the city, wherein the attributes are indicative of whether or not each of the roads should be displayed for each of a plurality of map scales. For example, Hyundai's navigation system has a map data storage section as memory located on the infotainment system. On information and belief, Hyundai's navigation system is, <i>e.g.</i>, manufactured by LG Electronics or Hyundai Mobis, and every version of Hyundai's navigation system has a substantially similar map data storage section as memory and operates in a substantially similar manner. <i>See, e.g., Gen5W:</i> Product Name: Car Navigation System Model Name: GEN5 WIDE NX4 User Manual, FCC Filing by LG Electronics USA at https://fccid.io/BEJIWH130FNX4G/User-Manual/User-Manual-4807948.pdf (MEL_HYUN_TECH_00000044) (yellow annotations added). <i>See also:</i>

Claim	Claim Element	Evidence of Infringement
		 Label Information, FCC Filing by LG Electronics USA at https://fccid.io/BEJIWH130FNX4G/Label/Label-Information-4807949 (MEL_HYUN_TECH_00000073) (yellow annotations added). <i>See also:</i>

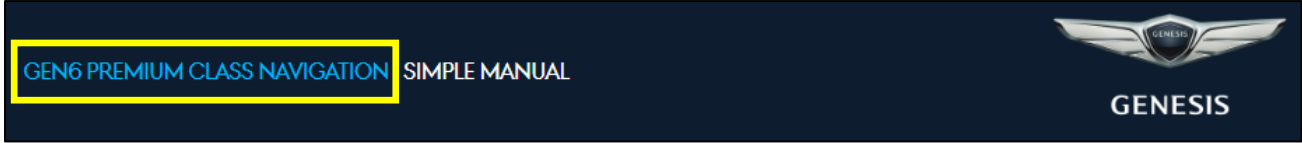
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Claim	Claim Element	Evidence of Infringement
		 Internal Photos, FCC Filing by LG Electronics USA at https://fccid.io/BEJIWH130FNX4G/Internal-Photos/Internal-Photos-4807940 (MEL_HYUN_TECH_00000077) (yellow annotations added).

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Claim	Claim Element	Evidence of Infringement
		See, e.g., Gen6:  User Manual, FCC Filing by LG Electronics USA at https://fccid.io/BEJIA0R370TEJK/Users-Manual/User-Manual-4943484 (MEL_HYUN_TECH_00000084) (yellow annotations added). See also:

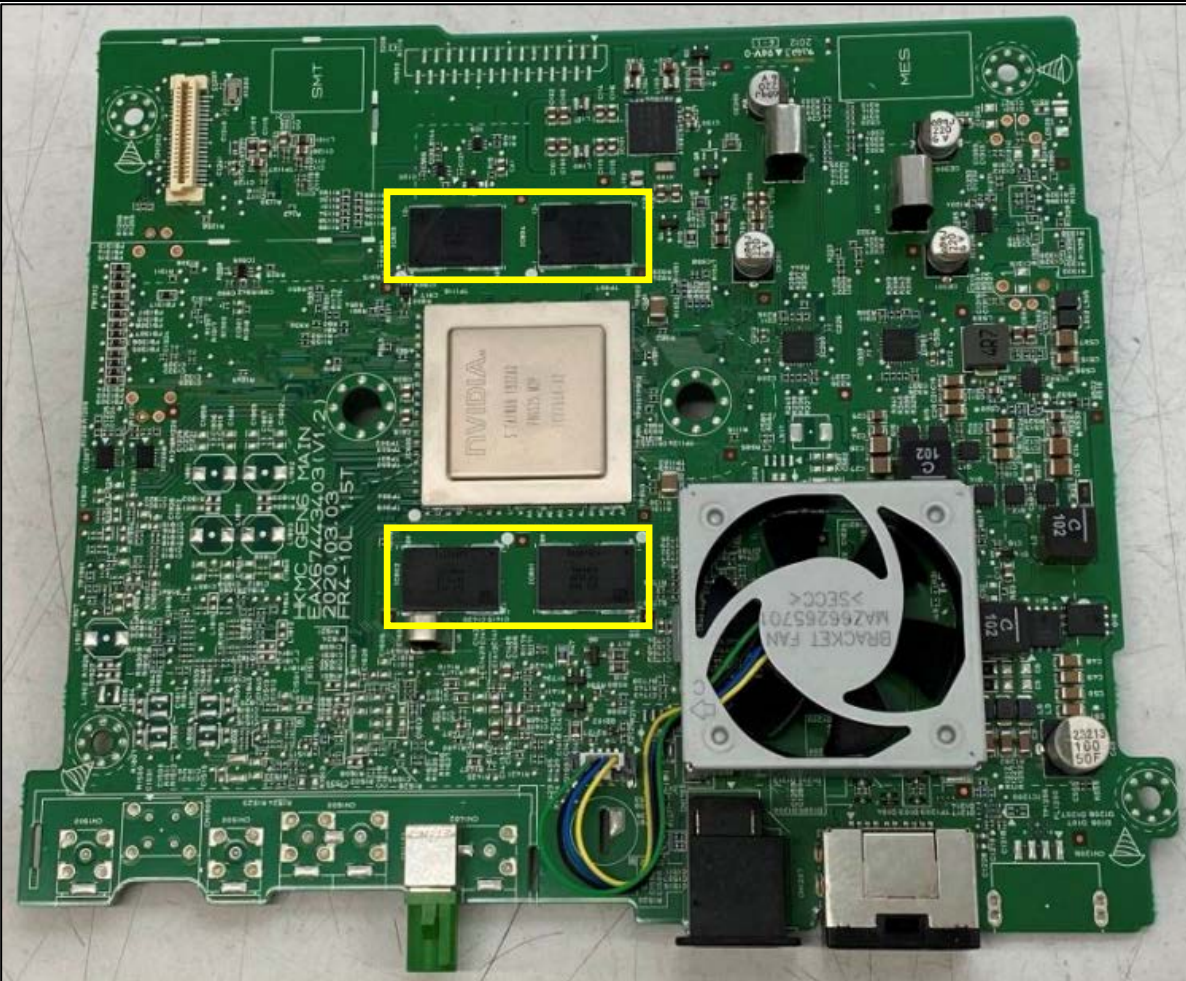
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Claim	Claim Element	Evidence of Infringement
		 ...

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Claim	Claim Element	Evidence of Infringement
		 Internal Photos, FCC Filing by LG Electronics USA at https://fccid.io/BEJIA0R370TEJK/Internal-Photos/Internal-Photos-4943475 (MEL_HYUN_TECH_00000100- MEL_HYUN_TECH_00000101) (yellow annotations added). For example, Hyundai's navigation system stores map data composed of roads (represented as gray and/or blue lines in the images below) for a route search, and display elements, such as, <i>inter alia</i>, city

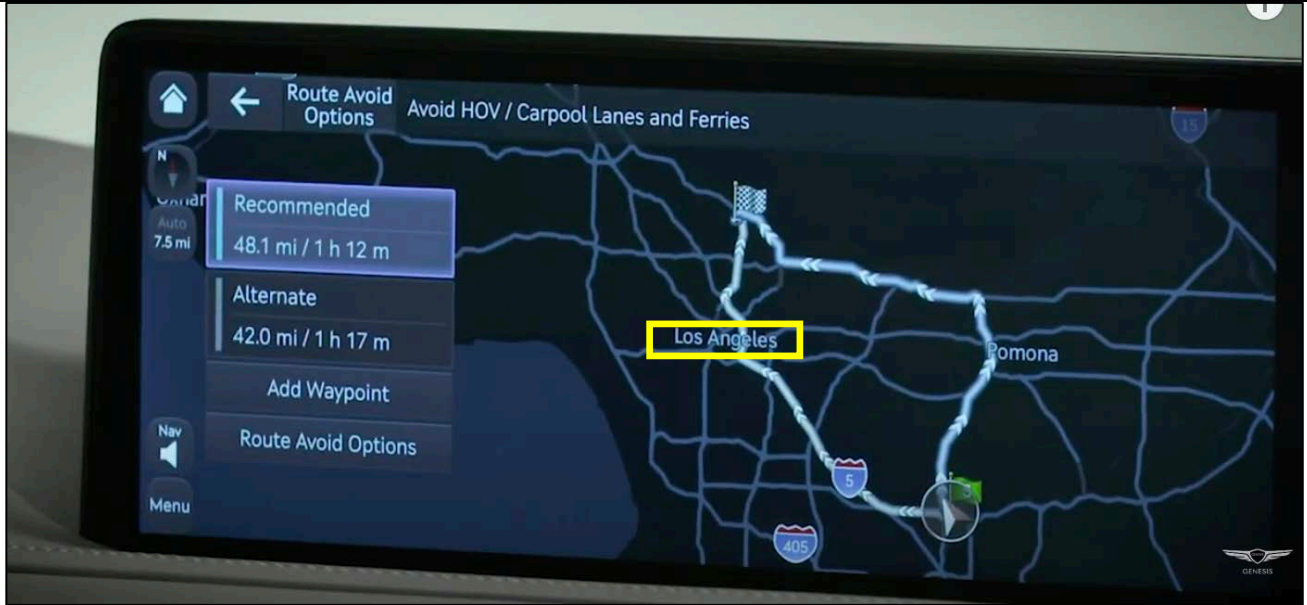
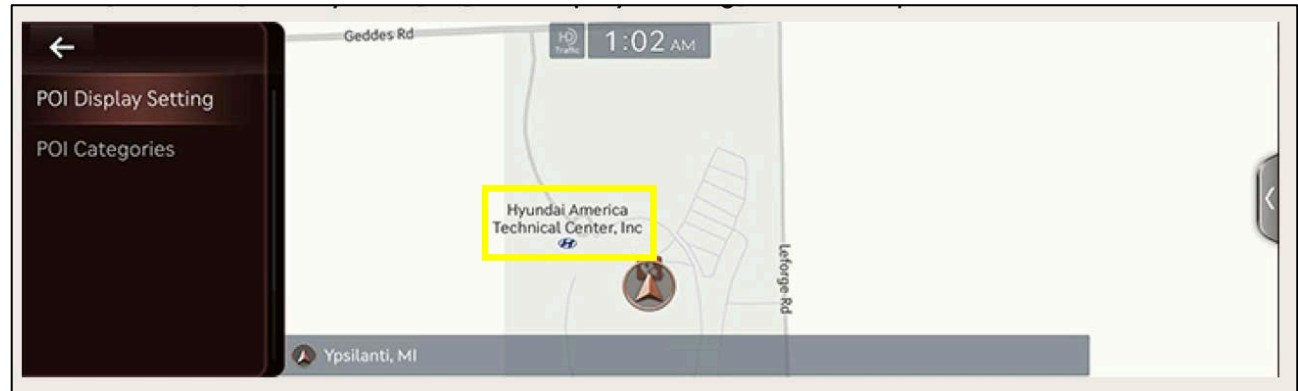
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Claim	Claim Element	Evidence of Infringement
		centers (represented as text such as “Canton” or “Los Angeles” in the images below), and facilities (represented by graphical icons and text in the images below). <i>See, e.g., Gen5W:</i>  2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-20, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000570) (yellow annotations added). <i>See, e.g., Gen6:</i>

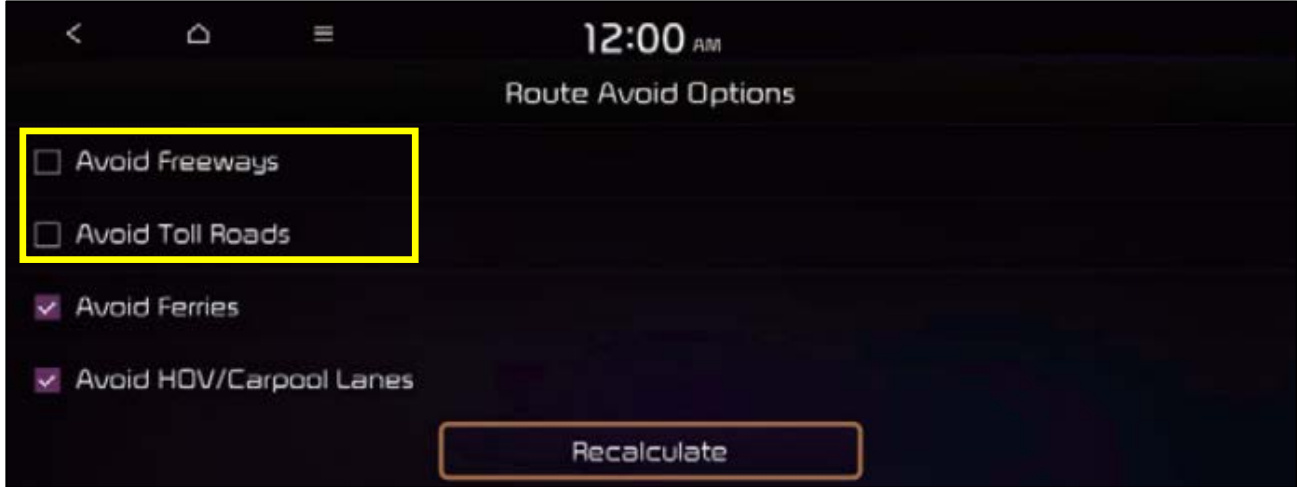
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Claim	Claim Element	Evidence of Infringement
		 Navigation – Routing Genesis G80 and GV80 How-To Genesis USA, at 1:06, at https://www.youtube.com/watch?v=aM90psllpM8 (MEL_HYUN_TECH_00001318) (yellow annotations added). See also: 

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Claim	Claim Element	Evidence of Infringement
		Gen 6 Premium Class Navigation, 2021 Genesis G80, Owner's Manual Warranty, at p. 36, at https://owners.genesis.com/genesis/us/mygenesis/manuals/glovebox-manual/2021/g80/2021-G80-Gen6-Premium-Navigation-Manual.PDF (MEL_HYUN_TECH_00000138) (yellow annotations added). For example, map data includes classes, such as a road class, city center class, and a facility class. As a non-limiting example, the road class has a freeway and a toll road subclass/attribute. See, e.g., Gen5W:  2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-20, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000570) (yellow annotations added). See, e.g., Gen6: [Route Avoid Options]: Modifies various route options according to your needs. Gen 6 Premium Class Navigation, 2021 Genesis G80, Owner's Manual Warranty, at p. 57, at https://owners.genesis.com/genesis/us/mygenesis/manuals/glovebox-manual/2021/g80/2021-G80-Gen6-Premium-Navigation-Manual.PDF (MEL_HYUN_TECH_00000159).

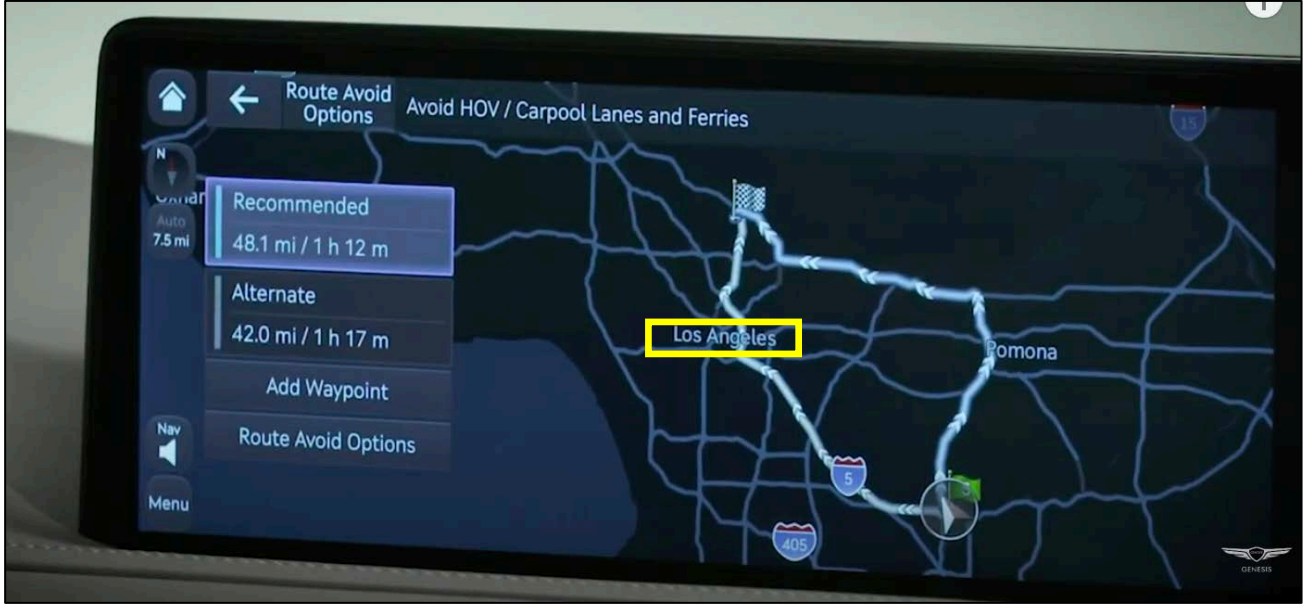
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Claim	Claim Element	Evidence of Infringement
		For example, display element city centers (represented as text such as “Canton” or “Los Angeles” in the images below) represent a city and indicate a representative position of the city. <i>See, e.g., Gen5W:</i>  2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-20, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000570) (yellow annotations added). <i>See, e.g., Gen6:</i>

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Claim	Claim Element	Evidence of Infringement
		 Navigation – Routing Genesis G80 and GV80 How-To Genesis USA, at 1:06, at https://www.youtube.com/watch?v=aM90psllpM8 (MEL_HYUN_TECH_00001318) (yellow annotations added). For example, roads have attributes, <i>e.g.</i>, a size attribute such as small (such as residential roads) or large roads (such as highways), that indicate whether or not each of the roads should be displayed depending on the map scale. For example, only large roads will be displayed when the map scale is large. <i>See, e.g.</i>, Gen5W:

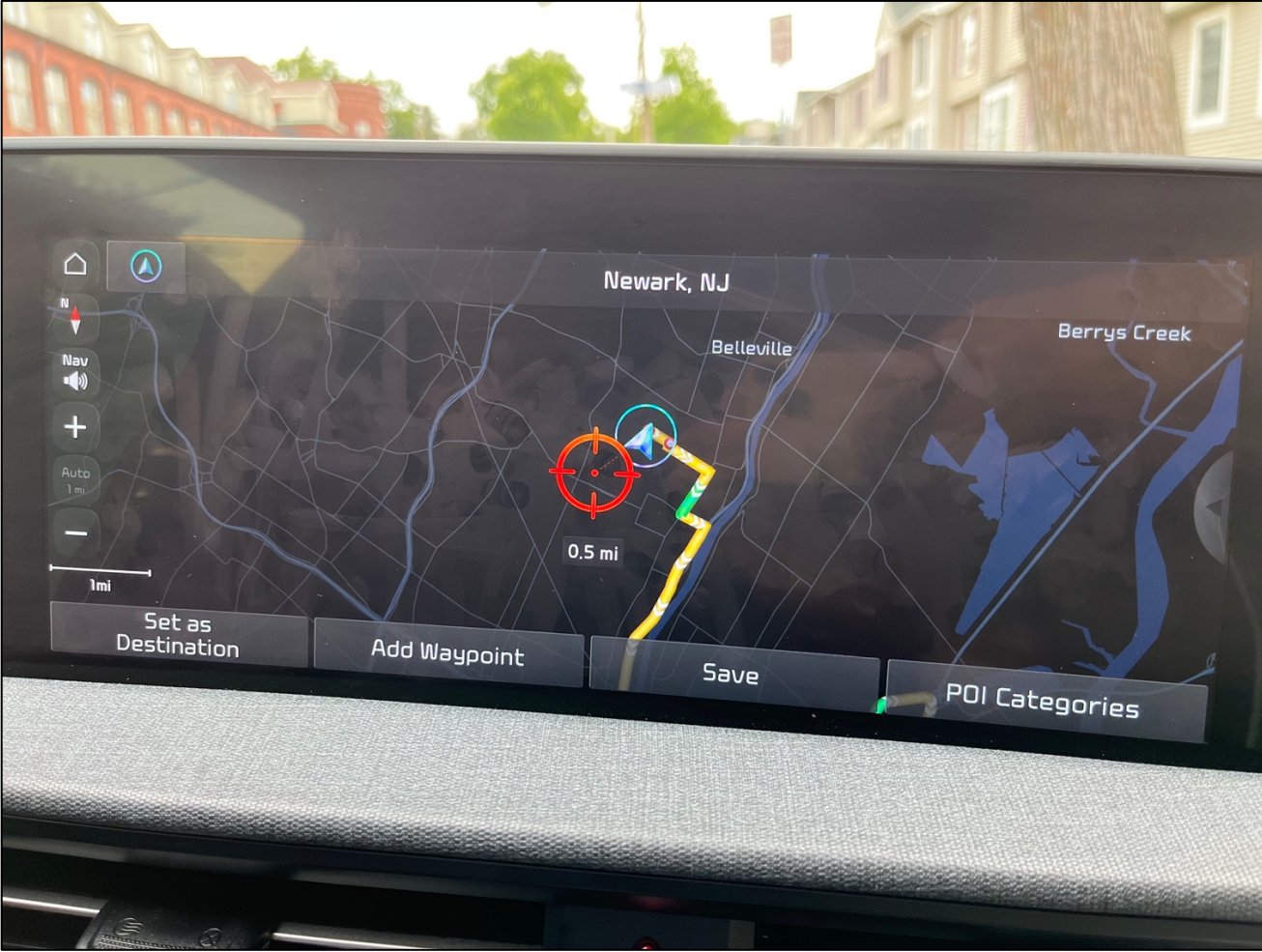
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Claim	Claim Element	Evidence of Infringement
		 Photo of 2022 KIA EV6 Navigation System (MEL_HYUN_TECH_00001323). <i>See also:</i>

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Claim	Claim Element	Evidence of Infringement
		 Photo of 2022 KIA EV6 Navigation System (MEL_HYUN_TECH_00001322). <i>See, e.g., Gen6:</i>

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Claim	Claim Element	Evidence of Infringement
		 Navigation – Map View Genesis G80 and GV80 How-To Genesis USA, at 1:51-1:54, at https://www.youtube.com/watch?v=DsdeLAWetm4 (MEL_HYUN_TECH_00001320-MEL_HYUN_TECH_00001321) (yellow annotations added).

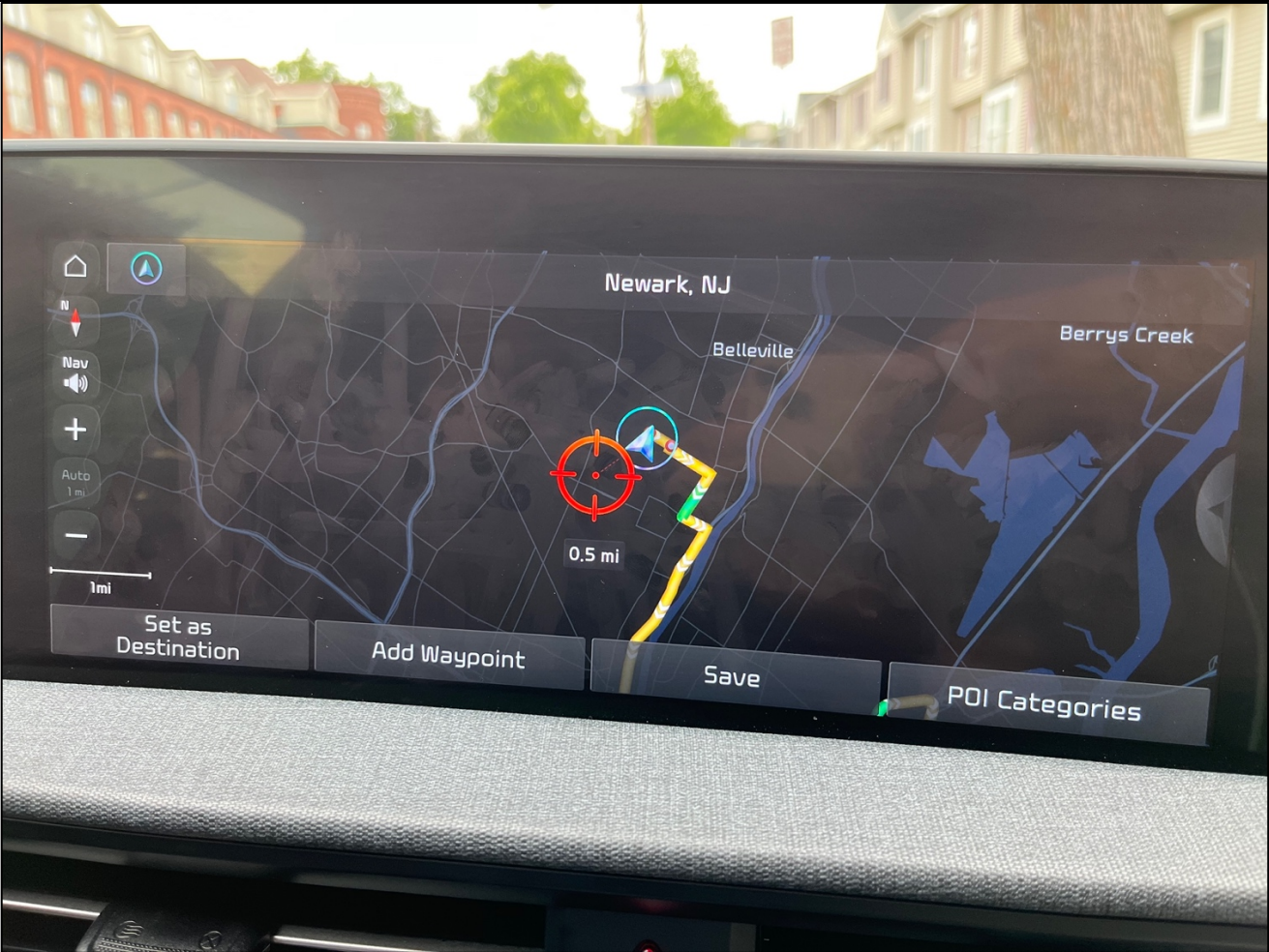
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Claim	Claim Element	Evidence of Infringement
1[c]	a display section for displaying the map data;	Hyundai's navigation system comprises a display section for displaying the map data. For example, Hyundai's navigation system has a display section for displaying the map data discussed above on a screen. See, e.g., Gen5W:  ... Dual Panoramic 12.3-inch screens⁸ provide a combined 24.6 inches of stunning, high-definition display of key info like battery status, range, nearby charging stations, and infotainment functions. 2022 KIA EV6 Brochure, at p. 7 (MEL_HYUN_TECH_00000418) (yellow annotations added). See also:

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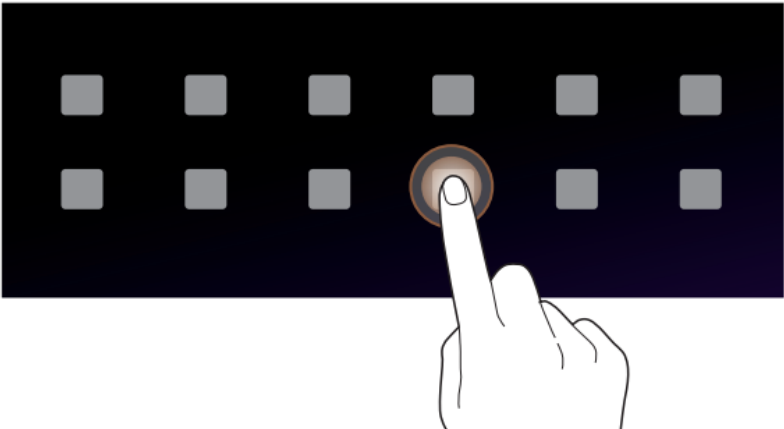
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Claim	Claim Element	Evidence of Infringement
		 Photo of 2022 KIA EV6 Navigation System (MEL_HYUN_TECH_00001322). See, e.g., Gen6:

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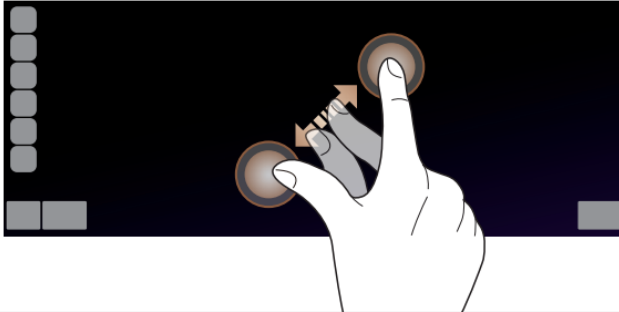
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Claim	Claim Element	Evidence of Infringement
		 Navigation – Routing Genesis G80 and GV80 How-To Genesis USA, at 1:00, at https://www.youtube.com/watch?v=aM90psllpM8 (MEL_HYUN_TECH_00001317) (yellow annotations added).
1[d]	an input section for inputting an instruction from a user; and	Hyundai's navigation system comprises an input section for inputting an instruction from a user. For example, Hyundai's navigation system has an input section for inputting instruction, <i>e.g.</i>, inputting a destination address to route the user to and the desired scale of the map using touchscreen, button, and/or voice input controls. <i>See, e.g., Gen5W:</i>

Claim	Claim Element	Evidence of Infringement
		"Press" gesture Lightly press the desired item and release the finger. The corresponding function is run or the corresponding menu is selected.  2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 1-8, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000460). <i>See also:</i>

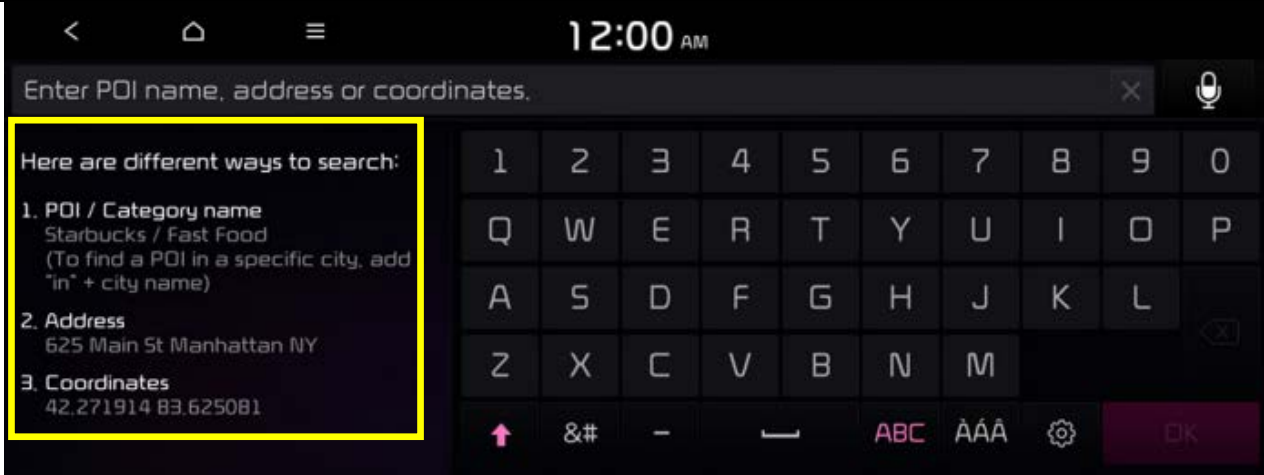
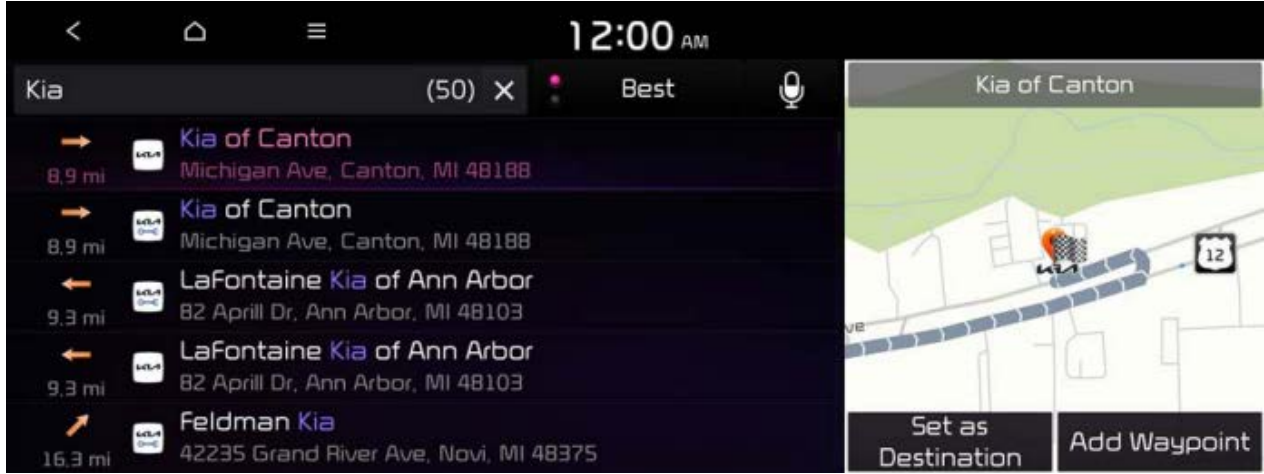
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Claim	Claim Element	Evidence of Infringement
		"Spread/pinch" gesture On the map screen, press and hold the screen with two fingers and spread or pinch the fingers. It is used to zoom in or out the map.  2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 1-10, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000462). <i>See also:</i> Zooms In/Out on the Map You can zoom in or out the map by using the Search knob on the map. 2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 9-42, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000704). <i>See also:</i>

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Claim	Claim Element	Evidence of Infringement
		 2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-12, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000562) (yellow annotations added). <i>See also:</i>  2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-12, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000562).

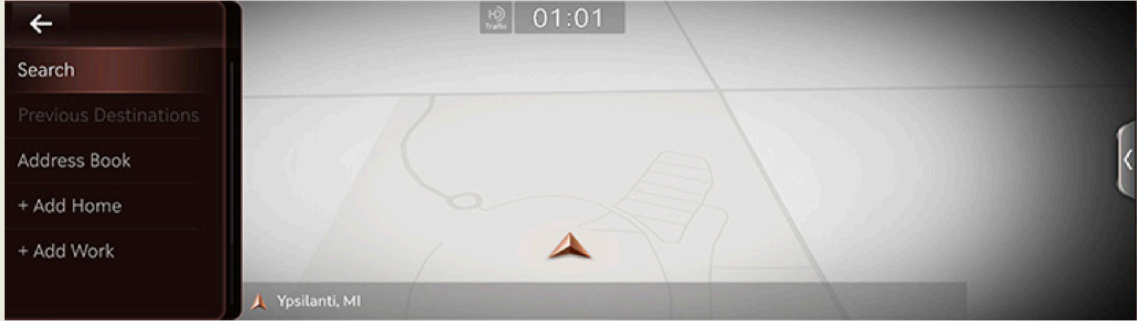
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Claim	Claim Element	Evidence of Infringement
		See also:  2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-12, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000562) (yellow annotations added). See, e.g., Gen6: MANUALLY SWITCHING MAP SCALE Rotate controller on the front seat key to left/right or zoom in/out with your finger on the map screen to change the map scale. Gen 6 Premium Class Navigation, 2021 Genesis G80, Owner's Manual Warranty, at p. 31, at https://owners.genesis.com/genesis/us/mygenesis/manuals/glovebox-manual/2021/g80/2021-G80-Gen6-Premium-Navigation-Manual.PDF (MEL_HYUN_TECH_00000133). See also:

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Claim	Claim Element	Evidence of Infringement
		DESTINATION SEARCH SCREEN Press [Menu] > [Destination] on the map screen.  The screenshot shows a map interface with a dark overlay menu on the left. The menu includes options: Search, Previous Destinations, Address Book, + Add Home, and + Add Work. The map background shows a road network with a red location pin and the text 'Ypsilanti, MI' at the bottom. A back arrow is visible in the top left of the menu, and a timer '01:01' is in the top right of the map area. Search The search results by the complete name or initial, phone number or address are specified on the map screen. Previous Destination A destination is searched by [Favorite destinations], [Previous destinations], [Searches]. Address Book Searches a destination registered in address book menu. Add Home/Home • Save home at the address book. • Searches registered home as a destination. Add Work/Work • Save work at the address book. • Searches registered work as a destination.

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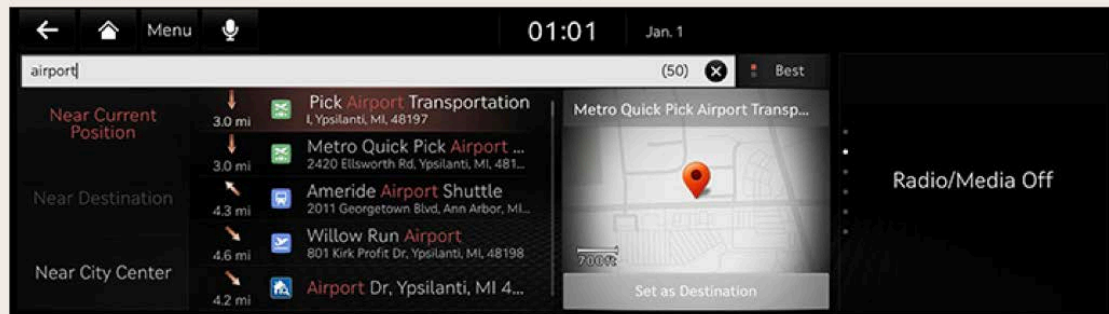
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Sets a destination by entering the full name or initial, phone number or address.

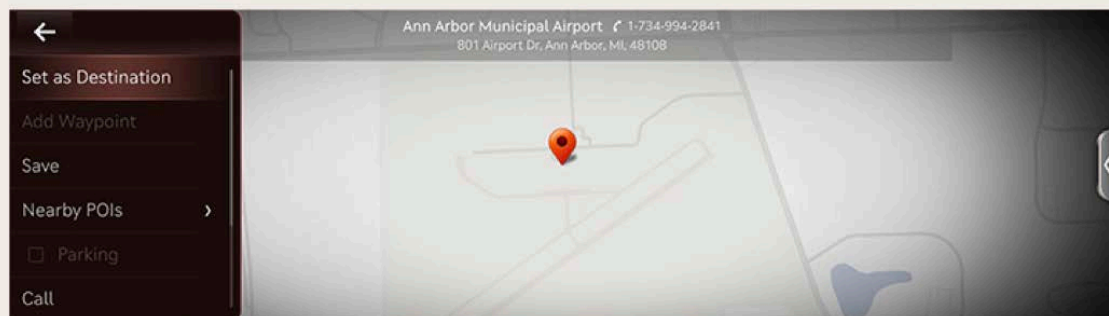
1. Press [Menu] > [Destination] > [Search] on the map screen.

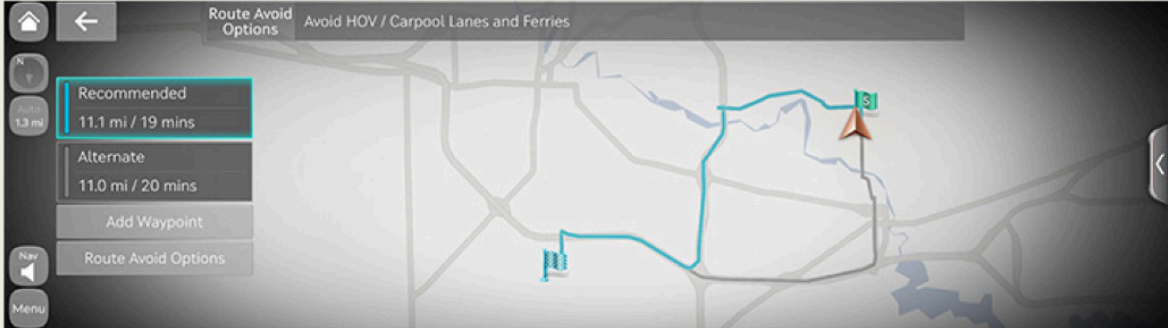


2. Press [Q] after entering the full name or initial, phone number or address.



3. Press the desired location in the list.



Claim	Claim Element	Evidence of Infringement
		... 4. Select the desired item. • [Set as Destination]: Sets the destination. • [Add Waypoint]: Adds waypoint after setting destination. • [Save]: Adds the location to address book menu. • [Nearby POIs]: Sets to display the POI category on the map screen. • [Parking]: Displays the parking lot around the destination. • [Call]: Makes a phone call. If no phone number is saved or Bluetooth is not connected, the call is not available. • [Display off]: Turns off the screen. • [Web Manual]: Displays the QR code for the manual of corresponding function. • [Split screen]: Displays split screen selection menu. 5. Press [Set as Destination].  6. Press a desired route. (Recommended, Alternate) • [Recommended]: Guides the optimal route to the destination by considering the real-time traffic information, distance and cost. • [Alternate]: Guides the alternate route to the destination. 7. Start guidance.

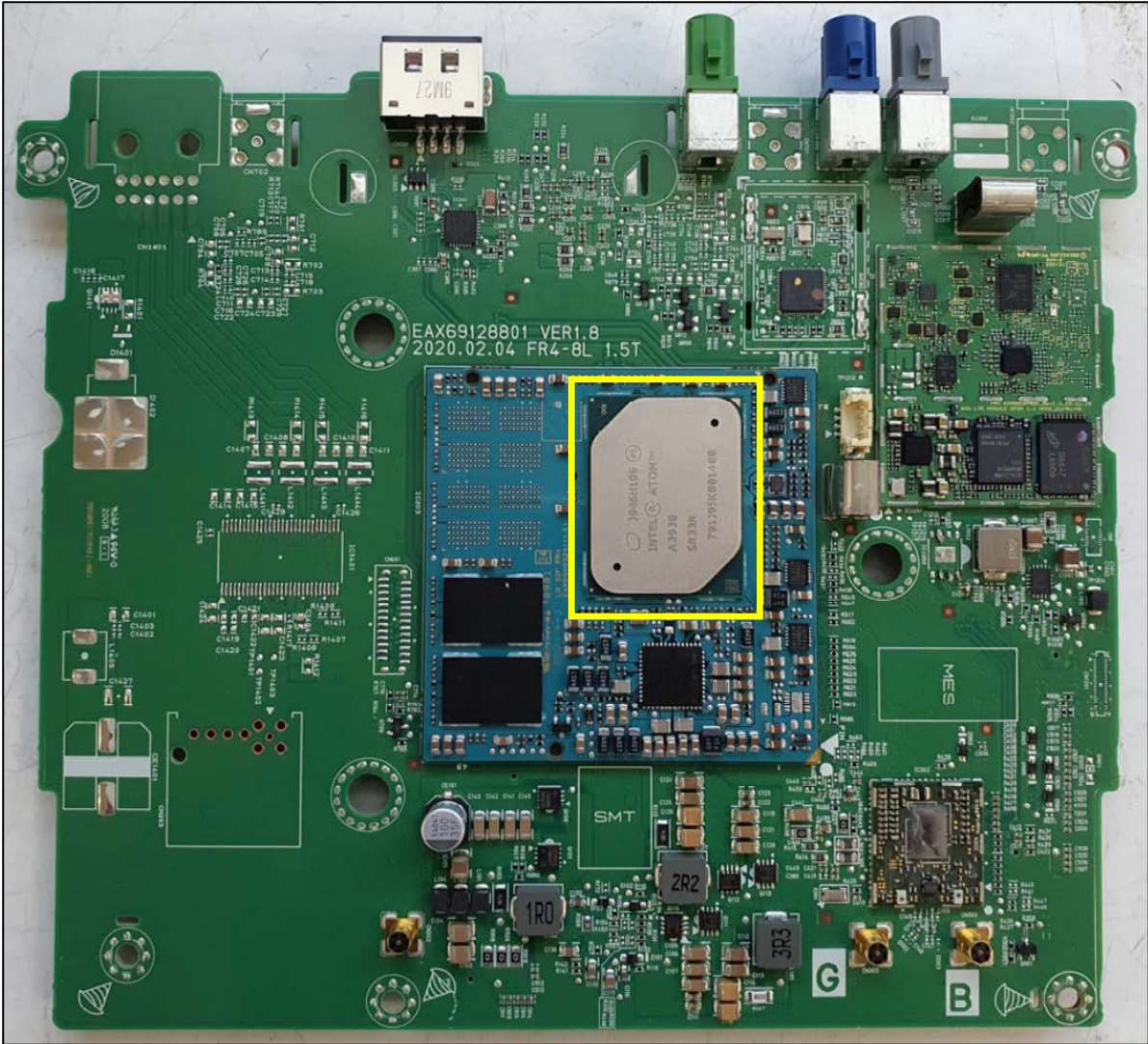
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Claim	Claim Element	Evidence of Infringement
		Gen 6 Premium Class Navigation, 2021 Genesis G80, Owner's Manual Warranty, at pp. 47-49, at https://owners.genesis.com/genesis/us/mygenesis/manuals/glovebox-manual/2021/g80/2021-G80-Gen6-Premium-Navigation-Manual.PDF (MEL_HYUN_TECH_00000149-MEL_HYUN_TECH_00000151).
1[e]	a control section for carrying out:	Hyundai's navigation system comprises a control section. For example, Hyundai's navigation system has a control section, <i>e.g.</i>, a CPU processor, for carrying out a procedure for calculating a route (<i>see</i> element 1[f] below) and a procedure for displaying a map (<i>see</i> element 1[g] below). On information and belief, every version of Hyundai's navigation system has a substantially similar control section as a CPU processor and operate in a substantially similar manner. <i>See, e.g.,</i> Gen5W:

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Claim	Claim Element	Evidence of Infringement
		 Internal Photos, FCC Filing by LG Electronics USA at https://fccid.io/BEJIWH130FNX4G/Internal-Photos/Internal-Photos-4807940 (MEL_HYUN_TECH_00000077) (yellow annotations added).

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Claim	Claim Element	Evidence of Infringement
		<i>See, e.g., Gen6:</i>  Internal Photos, FCC Filing by LG Electronics USA at https://fccid.io/BEJIA0R370TEJK/Internal-Photos/Internal-Photos-4943475 (MEL_HYUN_TECH_00000100) (yellow annotations added).

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Claim	Claim Element	Evidence of Infringement
1[f]	a procedure of calculating a route between an own-vehicle position and a destination represented by one of the display elements, the destination being instructed via the input section,	The control section of Hyundai's navigation system carries out a procedure of calculating a route between an own-vehicle position and a destination represented by one of the display elements, the destination being instructed via the input section. For example, the control section of Hyundai's navigation system discussed above carries out a procedure of calculating a route (represented as a highlighted line with arrows and/or blue line in the images below), between an own-vehicle position, <i>e.g.</i>, using a GPS location of the vehicle represented by a current position arrow icon, and a destination represented by a display element, <i>e.g.</i>, the checkered and/or blue flag in the images below, wherein the destination was input by the user (<i>see</i> element 1[d] above). <i>See, e.g., Gen5W:</i> Enter the location data such as place name, address, or coordinates and then press OK. ... Select a destination from the search result. ... Check the location of the destination and then press Set as Destination.  ...

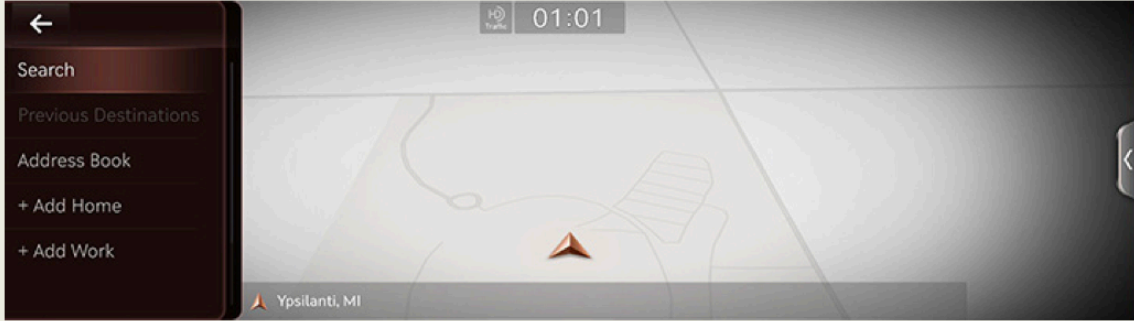
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Claim	Claim Element	Evidence of Infringement
		Select a route and press Start Guidance. 2022 KIA EV6 Car Infotainment System Quick Reference Guide, at pp. 5-3 – 5-4, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000553MEL_HYUN_TECH_00000554). See also: 2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-19, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000569) (yellow annotations added). See, e.g., Gen6:

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Claim	Claim Element	Evidence of Infringement
		DESTINATION SEARCH SCREEN Press [Menu] > [Destination] on the map screen.  The screenshot shows a map interface with a dark overlay menu on the left. The menu includes options: Search, Previous Destinations, Address Book, + Add Home, and + Add Work. The map background shows a road network with a red location pin and the text 'Ypsilanti, MI' at the bottom. A timer '01:01' is visible in the top right corner of the map area. Search The search results by the complete name or initial, phone number or address are specified on the map screen. Previous Destination A destination is searched by [Favorite destinations], [Previous destinations], [Searches]. Address Book Searches a destination registered in address book menu. Add Home/Home • Save home at the address book. • Searches registered home as a destination. Add Work/Work • Save work at the address book. • Searches registered work as a destination.

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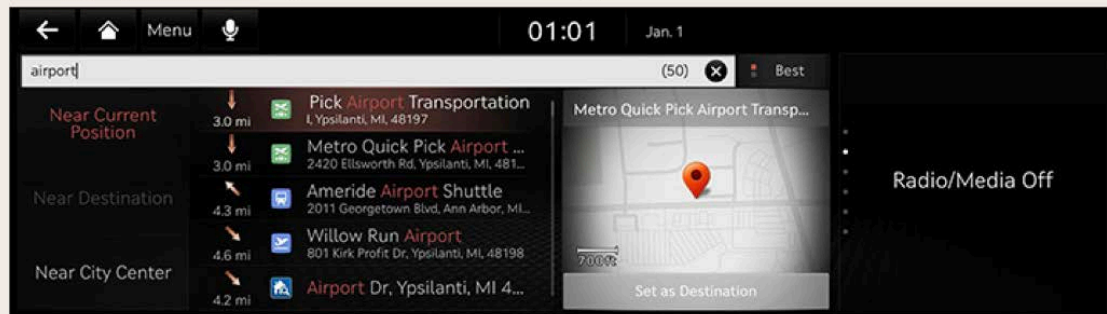
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Sets a destination by entering the full name or initial, phone number or address.

1. Press [Menu] > [Destination] > [Search] on the map screen.

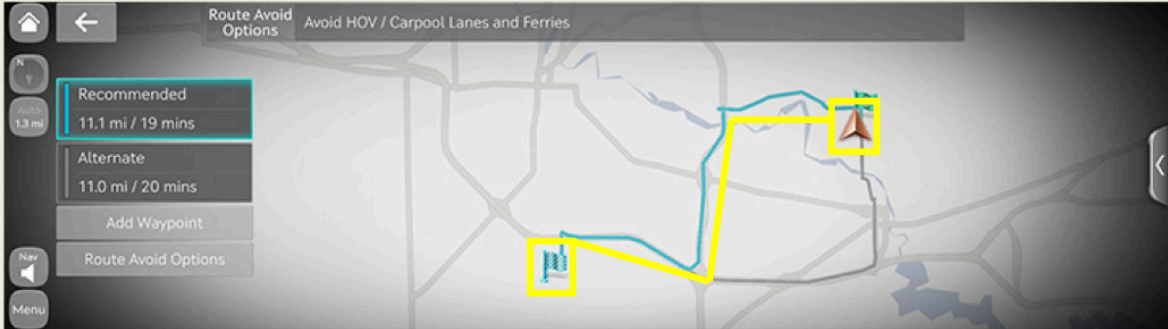


2. Press [Q] after entering the full name or initial, phone number or address.



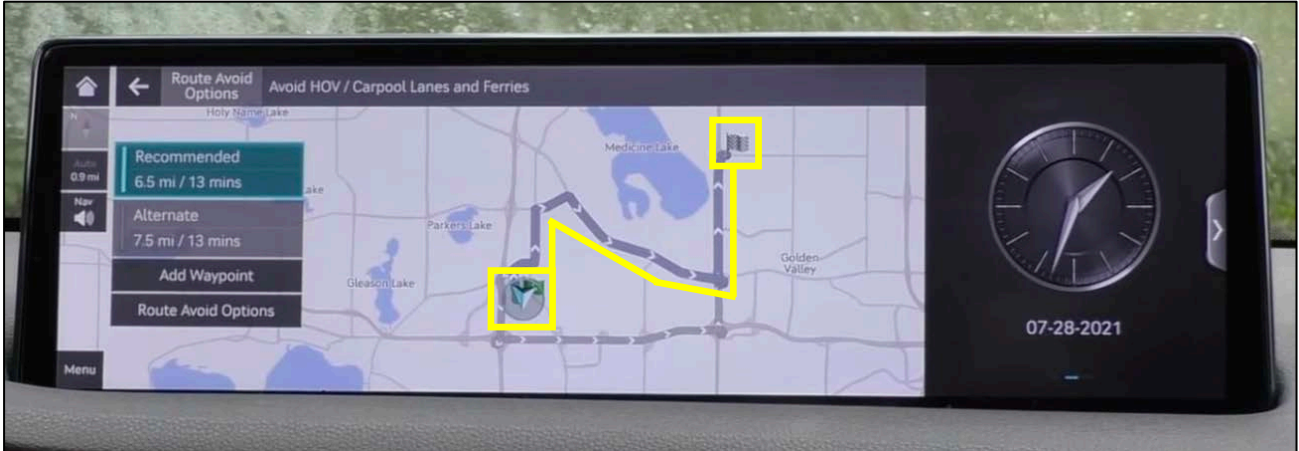
3. Press the desired location in the list.



Claim	Claim Element	Evidence of Infringement
		... 4. Select the desired item. • [Set as Destination]: Sets the destination. • [Add Waypoint]: Adds waypoint after setting destination. • [Save]: Adds the location to address book menu. • [Nearby POIs]: Sets to display the POI category on the map screen. • [Parking]: Displays the parking lot around the destination. • [Call]: Makes a phone call. If no phone number is saved or Bluetooth is not connected, the call is not available. • [Display off]: Turns off the screen. • [Web Manual]: Displays the QR code for the manual of corresponding function. • [Split screen]: Displays split screen selection menu. 5. Press [Set as Destination].  6. Press a desired route. (Recommended, Alternate) • [Recommended]: Guides the optimal route to the destination by considering the real-time traffic information, distance and cost. • [Alternate]: Guides the alternate route to the destination. 7. Start guidance.

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Claim	Claim Element	Evidence of Infringement
		Gen 6 Premium Class Navigation, 2021 Genesis G80, Owner's Manual Warranty, at pp. 47-49, at https://owners.genesis.com/genesis/us/mygenesis/manuals/glovebox-manual/2021/g80/2021-G80-Gen6-Premium-Navigation-Manual.PDF (MEL_HYUN_TECH_00000149-MEL_HYUN_TECH_00000151) (yellow annotations added). <i>See also:</i>  2022 Genesis GV70 – CarTech How To, at 9:53, at https://www.youtube.com/watch?v=YKg6qggICq8&t=37 (MEL_HYUN_TECH_00001329) (yellow annotations added).
1[g]	in accordance with one of the plurality of map scales instructed via the input section, a procedure of displaying a map on the display section by:	The control section of Hyundai's navigation system carries out, in accordance with one of the plurality of map scales instructed via the input section, a procedure of displaying a map on the display section. For example, the control section of Hyundai's navigation system discussed above carries out a procedure of displaying a map on the display section discussed above, wherein the map scale depends on the distance to the destination that was instructed by the input section discussed above and/or the desired map scale instructed by the input section discussed above. <i>See, e.g., Gen5W:</i>

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Claim	Claim Element	Evidence of Infringement
		Map screen The map screen provides various functions and informations, as follows:  2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-6, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000556) (yellow annotations added). See also: ④ Zooms in the map. ⑤ The scale of the map automatically changes. ⑥ Zooms out the map.

Claim	Claim Element	Evidence of Infringement
		2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 2-44, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000512). <i>See also:</i>  2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-19, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000569). <i>See also:</i>

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Claim	Claim Element	Evidence of Infringement
		 Photo of 2022 KIA EV6 Navigation System (MEL_HYUN_TECH_00001323) (yellow annotations added). See, e.g., Gen6:

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Claim	Claim Element	Evidence of Infringement
		 Gen 6 Premium Class Navigation, 2021 Genesis G80, Owner's Manual Warranty, at p. 49, at https://owners.genesis.com/genesis/us/mygenesis/manuals/glovebox-manual/2021/g80/2021-G80-Gen6-Premium-Navigation-Manual.PDF (MEL_HYUN_TECH_00000151). MANUALLY SWITCHING MAP SCALE Rotate controller on the front seat key to left/right or zoom in/out with your finger on the map screen to change the map scale. Gen 6 Premium Class Navigation, 2021 Genesis G80, Owner's Manual Warranty, at p. 31, at https://owners.genesis.com/genesis/us/mygenesis/manuals/glovebox-manual/2021/g80/2021-G80-Gen6-Premium-Navigation-Manual.PDF (MEL_HYUN_TECH_00000133).
1[h]	selecting the roads indicated by the attributes as being displayable according to the instructed map scale, and by selecting the display elements based on ranks,	The control section of Hyundai's navigation system carries out a procedure of displaying a map by selecting the roads indicated by the attributes as being displayable according to the instructed map scale, and by selecting the display elements based on ranks. For example, Hyundai's navigation system selects the roads according to its attributes, such as a size attribute, <i>e.g.</i>, small or large roads, to be displayed depending on the instructed map scale. For example, only highly ranked large roads (such as highways) will be displayed when the map scale is large. <i>See, e.g.</i>, Gen5W:

Claim	Claim Element	Evidence of Infringement
		 2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-20, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000570). <i>See also:</i>

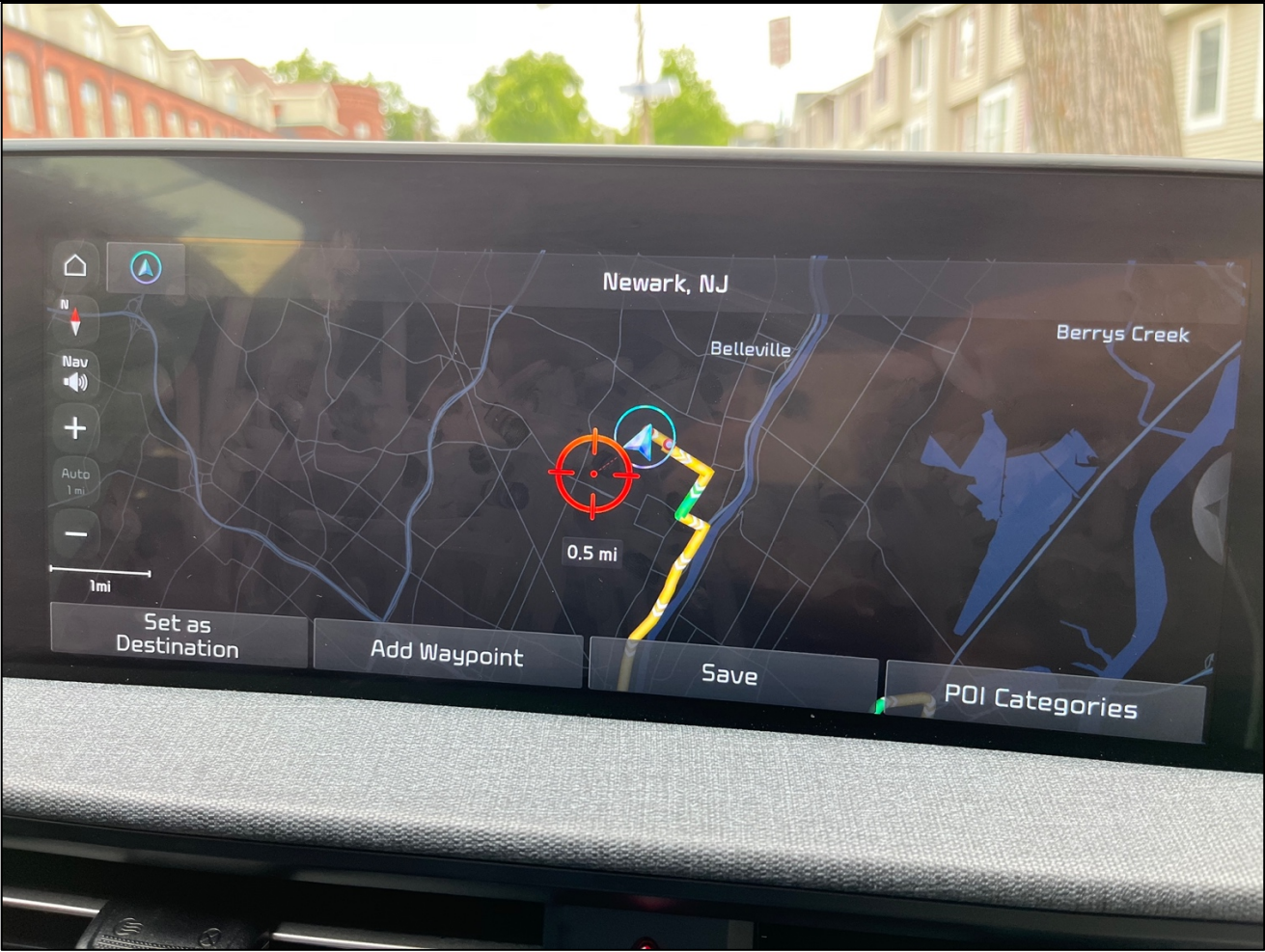
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Claim	Claim Element	Evidence of Infringement
		 Photo of 2022 KIA EV6 Navigation System (MEL_HYUN_TECH_00001323). <i>See also:</i>

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Claim	Claim Element	Evidence of Infringement
		 Photo of 2022 KIA EV6 Navigation System (MEL_HYUN_TECH_00001322). See, e.g., Gen6:

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Claim	Claim Element	Evidence of Infringement
		 Navigation – Map View Genesis G80 and GV80 How-To Genesis USA, at 0:35, at https://www.youtube.com/watch?v=DsdeLAWetm4 (MEL_HYUN_TECH_00001319). <i>See also:</i>  Gen 6 Premium Class Navigation, 2021 Genesis G80, Owner’s Manual Warranty, at p.49, at https://owners.genesis.com/genesis/us/mygenesis/manuals/glovebox-manual/2021/g80/2021-G80-Gen6-Premium-Navigation-Manual.PDF (MEL_HYUN_TECH_00000151). For example, Hyundai’s Navigation system selects the display elements, such as street labels, based on ranks, <i>e.g.</i>, highly ranked street labels close to or on the route are displayed prominently (such as

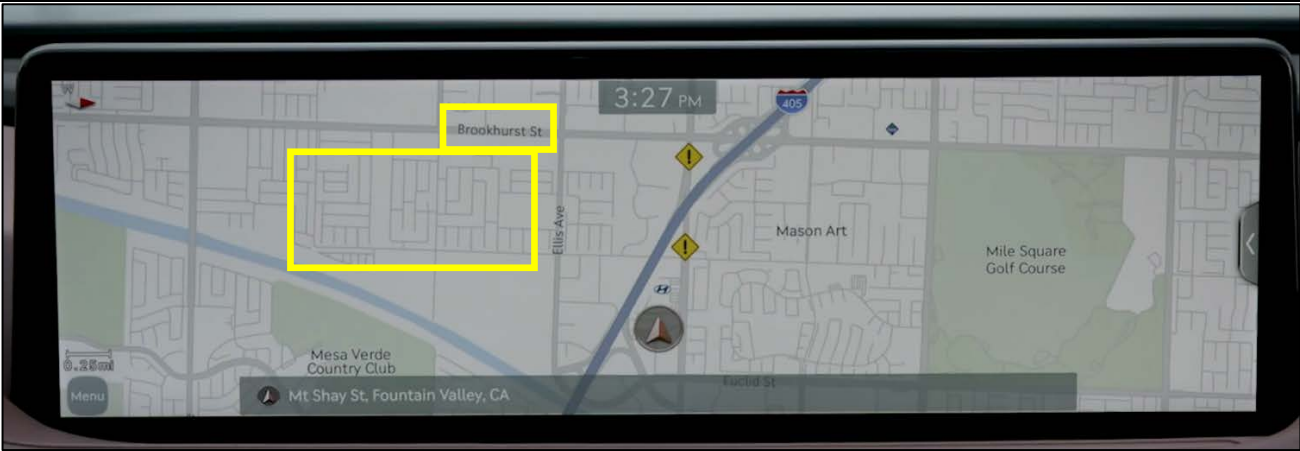
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Claim	Claim Element	Evidence of Infringement
		“N Prospect Rd” or “Brookhurst St.” in the images below) and lower ranked street labels, such as residential road labels, are not displayed. See, e.g., Gen5W: The image is a screenshot of a navigation application's map screen. At the top, it says 'Map screen' and 'The map screen provides various functions and informations, as follows:'. Below this is a map interface with several numbered callouts (1-14) pointing to different UI elements. A yellow rectangular box is drawn on the map, highlighting a specific area that includes the street labels 'N Prospect Rd' and 'Brookhurst St.'. The map also shows other streets like 'Geddes Rd', 'Ford Blvd', 'Holmes Rd', 'E Cross St', 'Eagle Crest', and 'Highland Cemetery'. At the bottom, there's a status bar with information like '8.4 mi', '2:58 PM ET', and 'Geddes Rd'. 2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-6, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000556) (yellow annotations added). See, e.g., Gen6:

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Claim	Claim Element	Evidence of Infringement
		 Navigation – Map View Genesis G80 and GV80 How-To Genesis USA, at 0:35, at https://www.youtube.com/watch?v=DsdeLAWetm4 (MEL_HYUN_TECH_00001319) (yellow annotations added). As another example, Hyundai’s navigation system selects the display elements, such as labels, based on ranks, <i>e.g.</i>, lower ranked road labels (such as “Ruby Pl” or “Los Prados St” in the images below) are only displayed at lower scales while higher ranked labels (such as “Mills St” or “El Esta Ave” in the images below) are displayed at larger scales. <i>See, e.g.</i>, Gen5W:

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Claim	Claim Element	Evidence of Infringement
		 Photo of 2022 KIA EV6 Navigation System (MEL_HYUN_TECH_00001324) (yellow annotations added). <i>See also:</i>

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Claim	Claim Element	Evidence of Infringement
		 Photo of 2022 KIA EV6 Navigation System (MEL_HYUN_TECH_00001325) (yellow annotations added). <i>See, e.g., Gen6:</i>

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Claim	Claim Element	Evidence of Infringement
		 Map Viewing Features Genesis G70 How-To Genesis USA, at 1:09-1:10, at https://www.youtube.com/watch?v=7lFFs8ufWQ (MEL_HYUN_TECH_00001326-MEL_HYUN_TECH_00001327) (yellow annotations added).
1[i]	further selecting each of the roads that is part of the calculated route but	The control section of Hyundai's navigation system carries out a procedure of displaying a map by further selecting each of the roads that is part of the calculated route but not indicated by the attributes as being displayable according to the instructed map scale.

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Claim	Claim Element	Evidence of Infringement
	not indicated by the attributes as being displayable according to the instructed map scale, and	For example, Hyundai's navigation system selects and displays the roads that are part of the calculated route even if based on their attribute they would normally be deemed too small to display according to the instructed map scale. For example, the highlighted roads in the image below are too small to be displayed at such a large map scale but are displayed because it is on the calculated route. See, e.g., Gen5W: 

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Claim	Claim Element	Evidence of Infringement
		Photo of 2022 KIA EV6 Navigation System (MEL_HYUN_TECH_00001323) (yellow annotations added). <i>See also:</i>  Photo of 2022 KIA EV6 Navigation System (MEL_HYUN_TECH_00001322) (yellow annotations added).

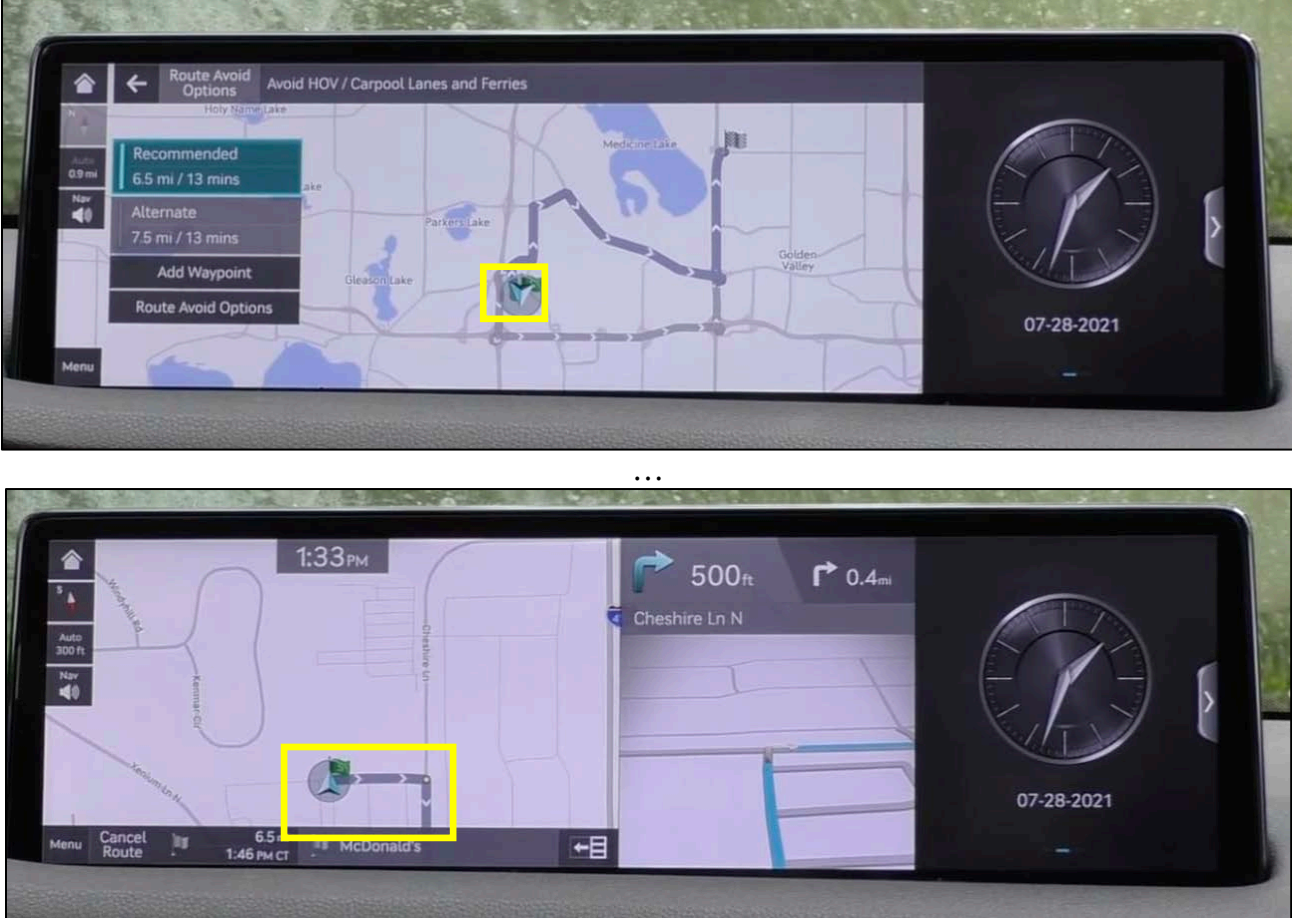
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Claim	Claim Element	Evidence of Infringement
		See also:  Photo of 2022 KIA EV6 Navigation System (MEL_HYUN_TECH_00001322) (yellow annotations added). See, e.g., Gen6:

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Claim	Claim Element	Evidence of Infringement
		 2022 Genesis GV70 – CarTech How To, at 9:53-9:58, at https://www.youtube.com/watch?v=YKg6qggICq8&t=37 (MEL_HYUN_TECH_00001329-MEL_HYUN_TECH_00001330) (yellow annotations added).
1[j]	displaying the selected roads and the selected display	The control section of Hyundai’s navigation system carries out a procedure of displaying a map by displaying the selected roads and the selected display elements on the display selection as part of the map.

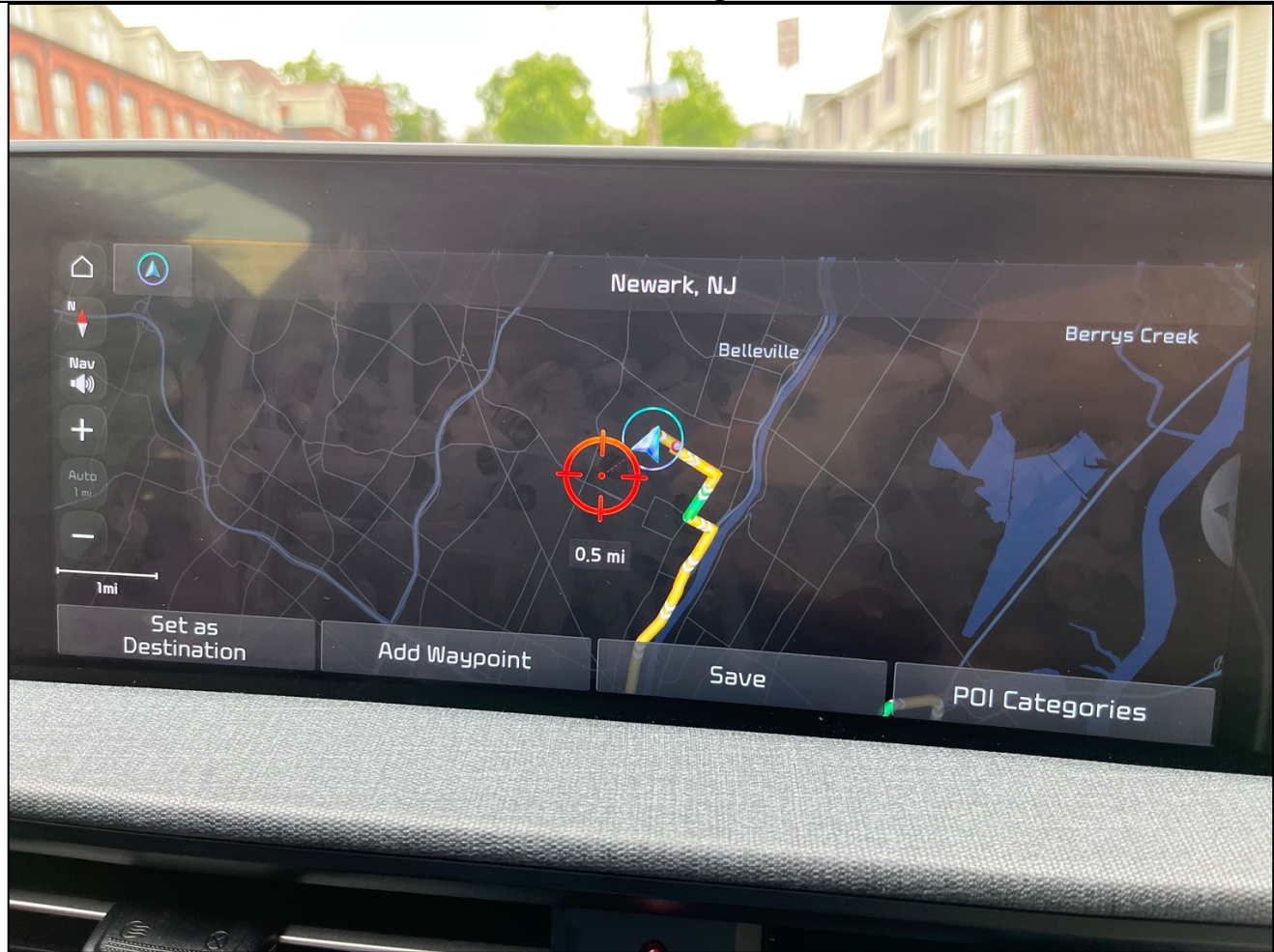
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Claim	Claim Element	Evidence of Infringement
	elements on the display selection as part of the map.	For example, Hyundai's Navigation displays the selected roads and the selected display elements on the vehicle infotainment system's map. See, e.g., Gen5W:  2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-20, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000570). See also:

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Claim	Claim Element	Evidence of Infringement
		 Photo of 2022 KIA EV6 Navigation System (MEL_HYUN_TECH_00001322). <i>See also:</i>

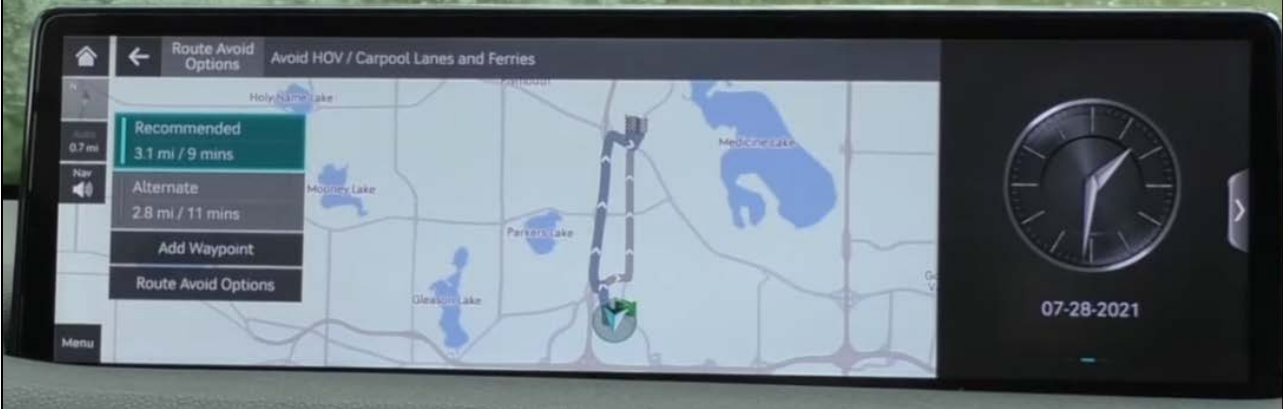
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Claim	Claim Element	Evidence of Infringement
		 Photo of 2022 KIA EV6 Navigation System (MEL_HYUN_TECH_00001323). <i>See, e.g., Gen6:</i>

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Claim	Claim Element	Evidence of Infringement
		 2022 Genesis GV70 – CarTech How To, at 9:08, at https://www.youtube.com/watch?v=YKg6qgggICq8&t=37 (MEL_HYUN_TECH_00001328).
2	The navigation system according to claim 1, wherein the control section displays each selected road not indicated by the attributes as being displayable according to the instructed map scale on the display section in a fashion different from the other selected roads.	See claim 1. In Hyundai’s navigation system according to claim 1, the control section displays each selected road not indicated by the attributes as being displayable according to the instructed map scale on the display section in a fashion different from the other selected roads. For example, the control section of Hyundai’s navigation system displays the roads that are part of the calculated route, even if based on their attribute they would normally be deemed too small to display according to the instructed map scale, in a fashion different from the other selected roads, <i>e.g.</i>, as a highlighted line with arrows rather than thinner grey lines in the images below. See, <i>e.g.</i>, Gen5W:

Claim	Claim Element	Evidence of Infringement
		 Photo of 2022 KIA EV6 Navigation System (MEL_HYUN_TECH_00001323) (yellow annotations added). <i>See also:</i>

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Claim	Claim Element	Evidence of Infringement
		 Photo of 2022 KIA EV6 Navigation System (MEL_HYUN_TECH_00001322) (yellow annotations added). <i>See also:</i>

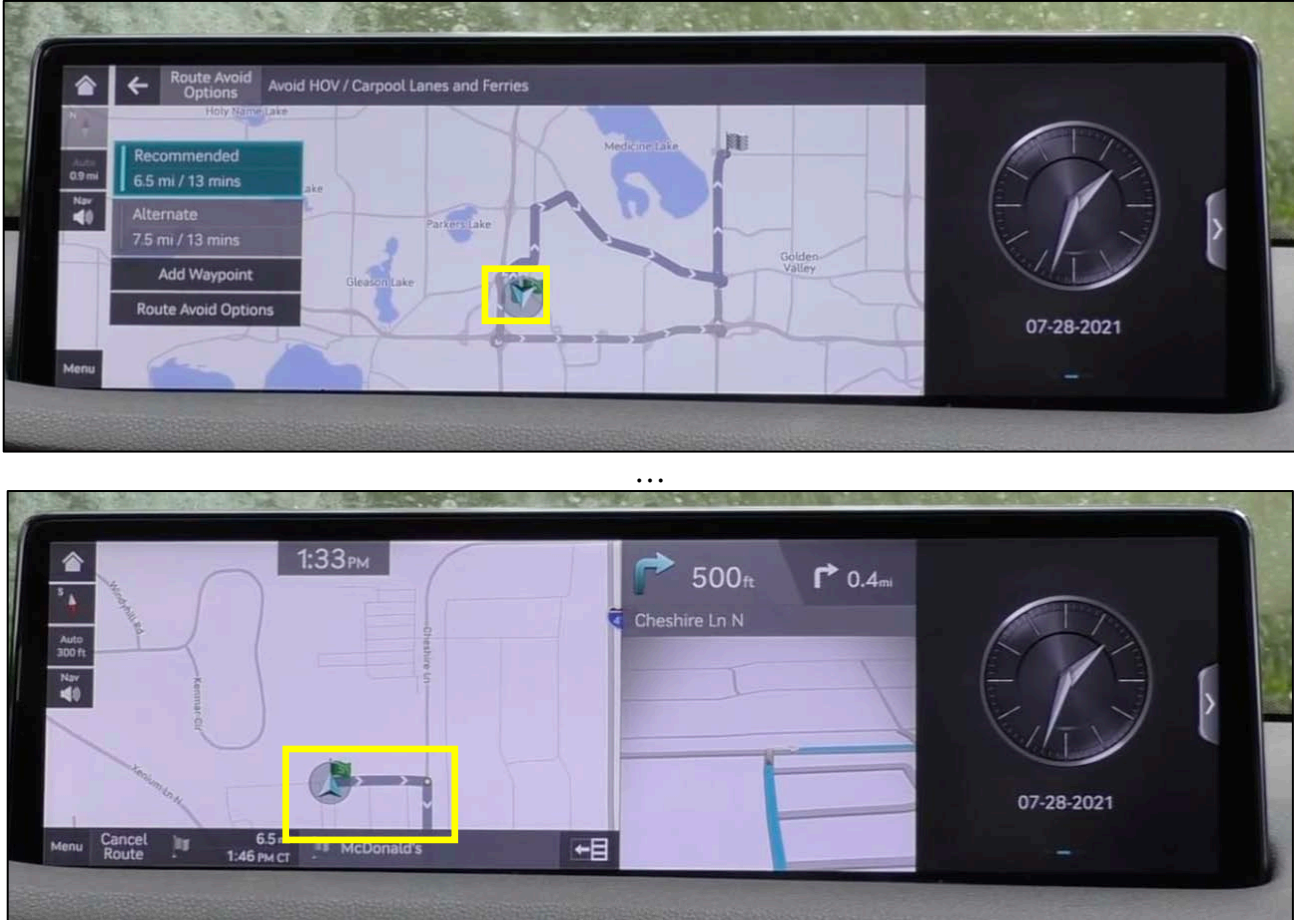
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Claim	Claim Element	Evidence of Infringement
		 Photo of 2022 KIA EV6 Navigation System (MEL_HYUN_TECH_00001322) (yellow annotations added). <i>See, e.g., Gen6:</i>

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Claim	Claim Element	Evidence of Infringement
		 2022 Genesis GV70 – CarTech How To, at 9:53-9:58, at https://www.youtube.com/watch?v=YKg6qggICq8&t=37 (MEL_HYUN_TECH_00001329-MEL_HYUN_TECH_00001330) (yellow annotations added).
3	The navigation system according to claim 1, wherein	See claim 1.

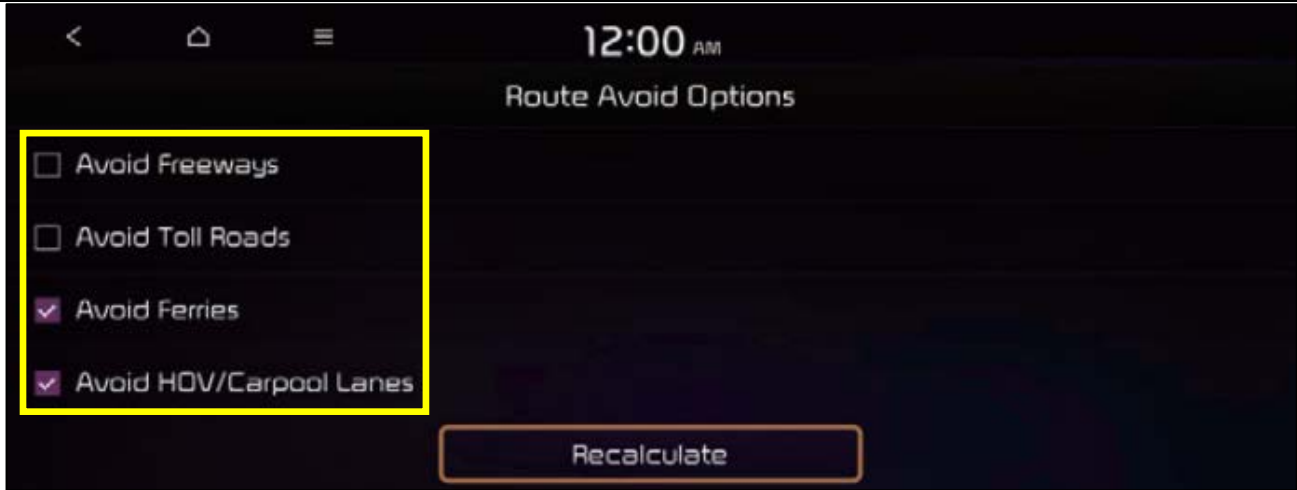
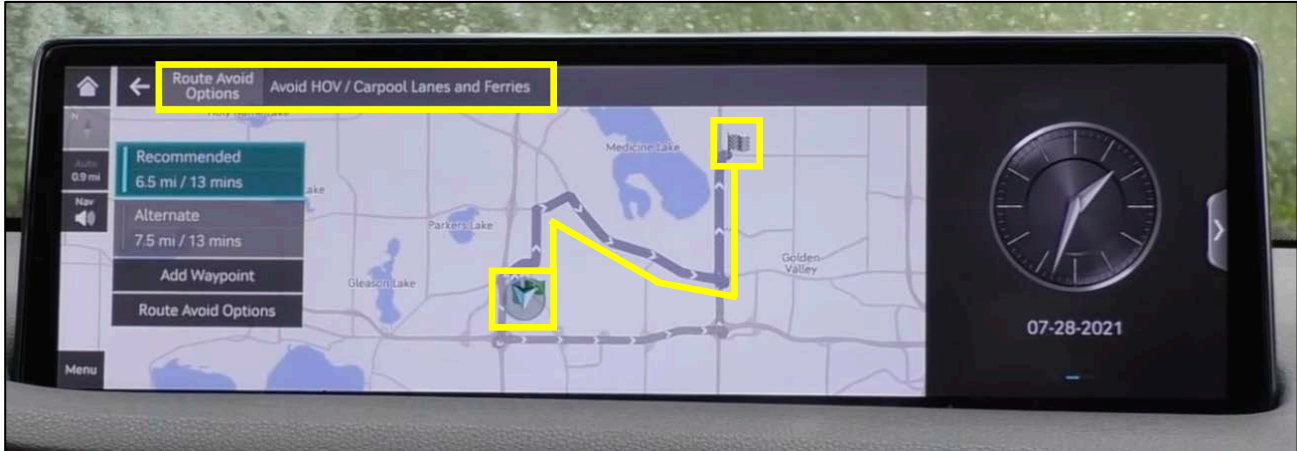
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Claim	Claim Element	Evidence of Infringement
	the route calculation is performed between the own-vehicle position and one of the selected display elements, and the route calculation is performed under a condition recommended by navigation or under a condition which is designated by the user and is input from the input section.	In Hyundai's navigation system according to claim 1, the route calculation is performed between the own-vehicle position and one of the selected display elements, and the route calculation is performed under a condition recommended by navigation or under a condition which is designated by the user and is input from the input section. For example, Hyundai's navigation system calculates a route (represented as a highlighted line with arrows and/or blue line in the image below) between the own vehicle position (represented as a current position arrow marker in the image below) and one of the selected display elements, <i>e.g.</i>, the final destination represented as a checkered and/or blue flag in the images below, under a condition, <i>e.g.</i>, a preference of avoiding highways, toll roads, ferries, or HOV/carpool lanes, designated by the user in the input section. <i>See, e.g., Gen5W:</i>  2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-19, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000569) (yellow annotations/line added). <i>See also:</i>

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Claim	Claim Element	Evidence of Infringement
		 2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-20, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000570) (yellow annotations added). See, e.g., Gen6: 

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Claim	Claim Element	Evidence of Infringement
		2022 Genesis GV70 – CarTech How To, at 9:53, at https://www.youtube.com/watch?v=YKg6qggICq8&t=37 (MEL_HYUN_TECH_00001329) (yellow annotations added). See also:  Gen 6 Premium Class Navigation, 2021 Genesis G80, Owner's Manual Warranty, at p. 49, at https://owners.genesis.com/genesis/us/mygenesis/manuals/glovebox-manual/2021/g80/2021-G80-Gen6-Premium-Navigation-Manual.PDF (MEL_HYUN_TECH_00000151) (yellow annotations added). See also: [Route Avoid Options]: Modifies various route options according to your needs. Gen 6 Premium Class Navigation, 2021 Genesis G80, Owner's Manual Warranty, at p. 57, at https://owners.genesis.com/genesis/us/mygenesis/manuals/glovebox-manual/2021/g80/2021-G80-Gen6-Premium-Navigation-Manual.PDF (MEL_HYUN_TECH_00000159).
5[a]	A display method of a road network in a navigation system having a map data storage section for storing map data,	Hyundai performs a display method of a road network in a navigation system having a map data storage section for storing map data, which is composed of roads necessary for a route search and display elements including city centers and facilities, together with attributes and classes of the map data, the attributes being indicative of whether or not each of the roads should be displayed for each of a plurality of map scales, the navigation system also having a position information acquiring section for obtaining position information on a vehicle, a control section including a drawing memory,

Claim	Claim Element	Evidence of Infringement
	which is composed of roads necessary for a route search and display elements including city centers and facilities, together with attributes and classes of the map data, the attributes being indicative of whether or not each of the roads should be displayed for each of a plurality of map scales, the navigation system also having a position information acquiring section for obtaining position information on a vehicle, a control section including a drawing memory, an input section for inputting an instruction from a user, and a display section for displaying the map data, the display method of the road	an input section for inputting an instruction from a user, and a display section for displaying the map data, the display method of the road network in the navigation system. For example, Hyundai displays a road network in its navigation system, <i>e.g.</i>, the Standard 5th Generation Wide (“Gen5W”) infotainment system found in the, <i>inter alia</i>, 2022 Kia EV6. <i>See, e.g.</i>, ...

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Claim	Claim Element	Evidence of Infringement
	network in the navigation system comprising:	Charging network integration connects you with 40,000+ charging stations throughout the US — including 400V DC fast chargers³ and higher — guiding you to the nearest charger along your route via the Navigation⁸ system. 2022 KIA EV6 Brochure, at pp. 1, 7 (MEL_HYUN_TECH_00000412, MEL_HYUN_TECH_00000418). <i>See also:</i> Navigation Menu overview You can use the navigation system conveniently through various functions on the Navigation Menu screen. Perform any of the following methods: - On the All Menus screen, press Navigation Menu. - On the control panel, press the [NAV] button. 

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Claim	Claim Element	Evidence of Infringement																																							
		2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-2, at https://owners.kia.com/content/owners/en/manuals.html. (MEL_HYUN_TECH_00000552). See also: Map screen The map screen provides various functions and informations, as follows:  2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-6, at https://owners.kia.com/content/owners/en/manuals.html. (MEL_HYUN_TECH_00000556). See also: <table><tr><th>Vehicle</th><th>Model</th><th>Navigation System</th><th>SW Version</th><th>MAP Version</th><th>Model Name</th></tr><tr><td rowspan="3">Cadenza</td><td>2017-18 Cadenza</td><td>Standard Gen4 Navigation</td><td>ST.YG.USA.E542.230419</td><td>NAM.16.41.41.712.003.3</td><td>YGAS.S4AMN.US</td></tr><tr><td>2019 Cadenza</td><td>Standard Gen5 Navigation</td><td>YG19.USA.SOPV136.230410.STD_H</td><td>NAM.16.41.71.012.302.9</td><td>YGAS.S5AMC.US</td></tr><tr><td>2020 Cadenza</td><td>Standard Gen5W Navigation</td><td>YGPE.USA.S5W_M.V010.001.230517</td><td>NAM.16.41.71.012.512.0</td><td>YGP19S.S5CMC.US</td></tr><tr><td rowspan="2">Carnival</td><td>2022 Carnival</td><td>Standard Gen5W Navigation</td><td>KA4.USA.S5W_M.V010.001.230517</td><td>NAM.16.41.71.012.512.0</td><td>KA4AS.S5BMC.US</td></tr><tr><td>2023 Carnival</td><td>Standard Gen5W Navigation</td><td>KA4_23.USA.S5W_M.V010.001.230517</td><td>NAM.16.41.71.012.512.0</td><td>KA4CS.S5BMC.US</td></tr><tr><td>EV6</td><td>2022-23 EV6</td><td>Standard Gen5W Navigation</td><td>CV_E.USA.S5W_M.V010.001.230517</td><td>NAM.16.41.71.012.512.0</td><td>CVAE.S5BMC.US</td></tr></table>	Vehicle	Model	Navigation System	SW Version	MAP Version	Model Name	Cadenza	2017-18 Cadenza	Standard Gen4 Navigation	ST.YG.USA.E542.230419	NAM.16.41.41.712.003.3	YGAS.S4AMN.US	2019 Cadenza	Standard Gen5 Navigation	YG19.USA.SOPV136.230410.STD_H	NAM.16.41.71.012.302.9	YGAS.S5AMC.US	2020 Cadenza	Standard Gen5W Navigation	YGPE.USA.S5W_M.V010.001.230517	NAM.16.41.71.012.512.0	YGP19S.S5CMC.US	Carnival	2022 Carnival	Standard Gen5W Navigation	KA4.USA.S5W_M.V010.001.230517	NAM.16.41.71.012.512.0	KA4AS.S5BMC.US	2023 Carnival	Standard Gen5W Navigation	KA4_23.USA.S5W_M.V010.001.230517	NAM.16.41.71.012.512.0	KA4CS.S5BMC.US	EV6	2022-23 EV6	Standard Gen5W Navigation	CV_E.USA.S5W_M.V010.001.230517	NAM.16.41.71.012.512.0	CVAE.S5BMC.US
Vehicle	Model	Navigation System	SW Version	MAP Version	Model Name																																				
Cadenza	2017-18 Cadenza	Standard Gen4 Navigation	ST.YG.USA.E542.230419	NAM.16.41.41.712.003.3	YGAS.S4AMN.US																																				
	2019 Cadenza	Standard Gen5 Navigation	YG19.USA.SOPV136.230410.STD_H	NAM.16.41.71.012.302.9	YGAS.S5AMC.US																																				
	2020 Cadenza	Standard Gen5W Navigation	YGPE.USA.S5W_M.V010.001.230517	NAM.16.41.71.012.512.0	YGP19S.S5CMC.US																																				
Carnival	2022 Carnival	Standard Gen5W Navigation	KA4.USA.S5W_M.V010.001.230517	NAM.16.41.71.012.512.0	KA4AS.S5BMC.US																																				
	2023 Carnival	Standard Gen5W Navigation	KA4_23.USA.S5W_M.V010.001.230517	NAM.16.41.71.012.512.0	KA4CS.S5BMC.US																																				
EV6	2022-23 EV6	Standard Gen5W Navigation	CV_E.USA.S5W_M.V010.001.230517	NAM.16.41.71.012.512.0	CVAE.S5BMC.US																																				

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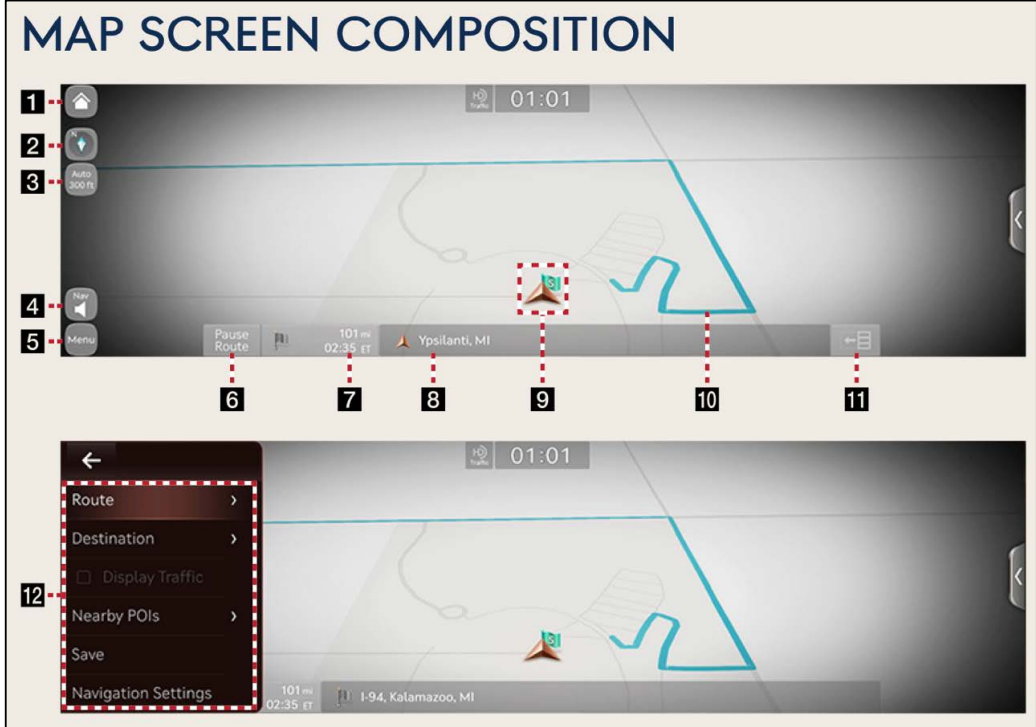
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Claim	Claim Element	Evidence of Infringement
		KIA Navigation Systems Overview at https://update.kia.com/US/EN/updateNoticePopup/IF1boL (MEL_HYUN_TECH_00000037) (yellow annotations added). For example, the navigation system of the Standard Gen5W infotainment system is equipped on the exemplary 2022 Kia EV6 as well as at least the 2022/2023 Hyundai Elantra, 2022/2023 Hyundai Elantra Hybrid, 2022/2023 Hyundai Elantra N, 2022/2023 Hyundai Ioniq 5, 2022 Hyundai Ioniq Electric, 2022 Hyundai Ioniq Hybrid, 2022 Hyundai Ioniq Plug-in Hybrid, 2023 Hyundai Ioniq 6, 2022/2023 Hyundai Kona, 2022/2023 Hyundai Kona Electric, 2022/2023 Hyundai Kona N, 2023 Hyundai Nexo Fuel Cell, 2022/2023 Hyundai Palisade, 2022/2023 Hyundai Santa Cruz, 2022/2023 Hyundai Santa Fe, 2022/2023 Hyundai Santa Fe Hybrid, 2022/2023 Hyundai Santa Fe Plug-in Hybrid, 2022/2023 Hyundai Sonata, 2022/2023 Hyundai Sonata Hybrid, 2022/2023 Hyundai Tucson, 2022/2023 Hyundai Tucson Hybrid, 2022/2023 Hyundai Tucson Plug-in Hybrid, 2022 Veloster N, 2022/2023 Hyundai Venue, 2022/2023 Kia Carnival, 2023 Kia EV6, 2022 Kia Forte 4Door, 2022/2023 Kia K5, 2022 Kia Niro, 2022/2023 Kia Niro Electric, 2023 Kia Niro Hybrid, 2022/2023 Kia Niro Plug-in Hybrid, 2022/2023/2024 Kia Seltos, 2022/2023 Kia Sorento, 2022/2023 Kia Sorento Hybrid, 2022/2023 Kia Sorento Plug-in Hybrid, 2022/2023 Kia Soul, 2022 Kia Soul Electric, 2022/2023 Kia Sportage, 2022/2023 Kia Sportage Hybrid, 2022/2023 Kia Sportage Plug-in Hybrid, 2022/2023 Kia Stingray, 2022/2023 Kia Telluride, and 2022/2023 Genesis G70. See https://update.hyundai.com/US/EN/updateNoticePopup/bapU9Q (MEL_HYUN_TECH_00000035-MEL_HYUN_TECH_00000036); see also https://update.kia.com/US/EN/updateNoticePopup/IF1boL (MEL_HYUN_TECH_00000037-MEL_HYUN_TECH_00000038); see also https://update.genesis.com/US/EN/updateNoticePopup/njAeO8 (MEL_HYUN_TECH_00000039). For example, Hyundai displays a road network in its navigation system, <i>e.g.</i>, the Premium 6th Generation (“Gen6”) infotainment system found in the, <i>inter alia</i>, 2021 Genesis G80. <i>See, e.g.,</i>

Claim	Claim Element	Evidence of Infringement
		 Navigation – Routing Genesis G80 and GV80 How-To Genesis USA, at 1:00, at https://www.youtube.com/watch?v=aM90psllpM8 (MEL_HYUN_TECH_00001317). <i>See also:</i> Thank you for purchasing this Gen6 Premium Class Navigation. This user's manual explains how to use the Gen6 Premium Class Navigation. Before using the product, read the contents of this user's manual carefully and use this product safely.

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Claim	Claim Element	Evidence of Infringement
		Gen 6 Premium Class Navigation, 2021 Genesis G80, Owner's Manual Warranty, at p. 2, at https://owners.genesis.com/genesis/us/mygenesis/manuals/glovebox-manual/2021/g80/2021-G80-Gen6-Premium-Navigation-Manual.PDF (MEL_HYUN_TECH_00000104). See also:  Gen 6 Premium Class Navigation, 2021 Genesis G80, Owner's Manual Warranty, at p. 27, at https://owners.genesis.com/genesis/us/mygenesis/manuals/glovebox-manual/2021/g80/2021-G80-Gen6-Premium-Navigation-Manual.PDF (MEL_HYUN_TECH_00000129).

Claim	Claim Element	Evidence of Infringement																																																																																																																																																									
		For example, the navigation system of the Gen6 infotainment system is equipped on the exemplary 2021 Genesis G80 as well as at least the 2021 GV80, 2022 GV70, 2022 G80, 2022 GV80, and 2023 Electrified G80.																																																																																																																																																									
		See, e.g.,																																																																																																																																																									
		<table><thead><tr><th>Vehicle</th><th>Model</th><th>Navigation System</th><th>SW Version</th><th>MAP Version</th><th>Model Name</th></tr></thead><tbody><tr><td>Electrified G80</td><td>2023 Electrified G80</td><td>Premium Gen6 Navigation</td><td>RG3.USA.P6.001.006.230420</td><td>NAM.16.41.71.012.914.0</td><td>RG3AE.P6CLC.US</td></tr><tr><td rowspan="2">G70</td><td>2019-21 G70</td><td>Standard Gen5 Navigation</td><td>IK.USA.SOP.V136.230410.STD_H</td><td>NAM.16.41.71.012.302.9</td><td>IKAS.S5AMC.US</td></tr><tr><td>2022-23 G70</td><td>Standard Gen5W Navigation</td><td>IKFL.USA.S5W_M.V010.001.230517</td><td>NAM.16.41.71.012.512.0</td><td>IKFAS.S5BMC.US</td></tr><tr><td rowspan="14">G80</td><td>2014-16 G80 (8 in. Touchscreen)</td><td>Standard Gen4 Navigation</td><td>ST.DH.USA.E542.230419</td><td>NAM.16.41.41.712.003.3</td><td>DHAS.S4AMC.US</td></tr><tr><td>2014 G80 (9.2 in. Touchscreen)</td><td>Premium Gen2 Navigation</td><td>DH.USA.SOP.xx.030</td><td>NAM.16.41.41.712.102.3</td><td>DHAS.P2ALC.NA</td></tr><tr><td>2015 G80 (9.2 in. Touchscreen)</td><td>Premium Gen2 Navigation</td><td>DH15MY.USA.SOP.xx.030</td><td>NAM.16.41.41.712.102.3</td><td>DHAS.P2ALC.NA</td></tr><tr><td>2016 G80 (9.2 in. Touchscreen)</td><td>Premium Gen2 Navigation</td><td>DH16MY.USA.SOP.xx.030</td><td>NAM.16.41.41.712.102.3</td><td>DHAS.P2ALC.NA</td></tr><tr><td>2017 G80 (9.2 in. Touchscreen)</td><td>Premium Gen2 Navigation</td><td>DH17MY.USA.SOP.xx.030</td><td>NAM.16.41.41.712.102.3</td><td>DHAS.P2ALC.NA</td></tr><tr><td>2017 G80 (8 in. Touchscreen)</td><td>Standard Gen4 Navigation</td><td>ST.DH17.USA.E542.230419</td><td>NAM.16.41.41.712.003.3</td><td>DHBS.S4AMC.US</td></tr><tr><td>2018 G80 (8 in. Touchscreen)</td><td>Standard Gen4 Navigation</td><td>ST.DHPE.USA.E542.230419</td><td>NAM.16.41.41.712.003.3</td><td>DHCS.S4AMN.US</td></tr><tr><td>2018 G80 (9.2 in. Touchscreen)</td><td>Premium Gen2 Navigation</td><td>DHPE.USA.SOP.xx.017</td><td>NAM.16.41.41.712.102.3</td><td>DHBS.P2ALC.NA</td></tr><tr><td>2019 G80 (9.2 in. Touchscreen)</td><td>Premium Gen2 Navigation</td><td>DH18MY.USA.SOP.xx.017</td><td>NAM.16.41.41.712.102.3</td><td>DHCS.P2ALC.NA</td></tr><tr><td>2019-20 G80 (8 in. Touchscreen)</td><td>Standard Gen5 Navigation</td><td>DH19.USA.SOP.V136.230410.STD_H</td><td>NAM.16.41.71.012.302.9</td><td>DHAS.S5AMC.US</td></tr><tr><td>2020 G80 (9.2 in. Touchscreen)</td><td>Premium Gen5 Navigation</td><td>DH19MY.USA.P5.001.011.230426</td><td>NAM.16.41.71.012.402.0</td><td>DHAS.P5ALC.NA</td></tr><tr><td>2021 G80</td><td>Premium Gen6 Navigation</td><td>RG3.USA.P6.001.006.230420</td><td>NAM.16.41.71.012.914.0</td><td>RG3AS.P6CLC.US</td></tr><tr><td>2022 G80</td><td>Premium Gen6 Navigation</td><td>RG3_22.USA.P6.001.006.230420</td><td>NAM.16.41.71.012.914.0</td><td>RG3BS.P6CLC.US</td></tr><tr><td>2023 G80</td><td>Premium Gen6 Navigation</td><td>RG3_22.USA.P6.001.006.230420</td><td>NAM.16.41.71.012.914.0</td><td>RG3BS.P6CLC.US</td></tr><tr><td rowspan="4">G90</td><td>2017-19 G90</td><td>Harman DIS2</td><td>R31.0.013A</td><td>DB_HMCDIS2S_NA_NA_S_0000_E01.0035</td><td>P.AVN3</td></tr><tr><td>2020 G90</td><td>Premium Gen5 Navigation</td><td>HI.USA.P5.001.011.230426</td><td>NAM.16.41.71.012.402.0</td><td>HIAS.P5BLC.NA</td></tr><tr><td>2021-22 G90</td><td>Premium Gen5 Navigation</td><td>HI.USA.P5.001.011.230426</td><td>NAM.16.41.71.012.402.0</td><td>HIBS.P5BLC.NA</td></tr><tr><td>2023 G90</td><td>ccIC Navigation</td><td>RS4.USA.cclC.001.005.230523</td><td>NAM.16.41.71.012.918.0</td><td>RS4AS.PCBLC.US</td></tr><tr><td>GV60</td><td>2023 GV60</td><td>ccIC Navigation</td><td>JW.USA.cclC.001.005.230523</td><td>NAM.16.41.71.012.918.0</td><td>JWAE.PCBLC.US</td></tr><tr><td rowspan="2">GV70</td><td>2022 GV70</td><td>Premium Gen6 Navigation</td><td>JK1.USA.P6.001.006.230420</td><td>NAM.16.41.71.012.914.0</td><td>JK1AS.P6CLC.US</td></tr><tr><td>2023 GV70</td><td>Premium Gen6 Navigation</td><td>JK1.USA.P6.001.006.230420</td><td>NAM.16.41.71.012.914.0</td><td>JK1AS.P6CLN.A.US</td></tr><tr><td rowspan="4">GV80</td><td>2021 GV80</td><td>Premium Gen6 Navigation</td><td>JX1.USA.P6.001.006.230420</td><td>NAM.16.41.71.012.914.0</td><td>JX1AS.P6CLC.US</td></tr><tr><td>2022 GV80</td><td>Premium Gen6 Navigation</td><td>JX1_22.USA.P6.001.006.230420</td><td>NAM.16.41.71.012.914.0</td><td>JX1BS.P6CLC.US</td></tr><tr><td>2023 GV80</td><td>Premium Gen6 Navigation</td><td>JX1_22.USA.P6.001.006.230420</td><td>NAM.16.41.71.012.914.0</td><td>JX1BS.P6CLC.US</td></tr><tr><td>2024 GV80</td><td>Premium Gen6 Navigation</td><td>JX1_22.USA.P6.001.006.230420</td><td>NAM.16.41.71.012.914.0</td><td>JX1BS.P6CLC.US</td></tr></tbody></table>	Vehicle	Model	Navigation System	SW Version	MAP Version	Model Name	Electrified G80	2023 Electrified G80	Premium Gen6 Navigation	RG3.USA.P6.001.006.230420	NAM.16.41.71.012.914.0	RG3AE.P6CLC.US	G70	2019-21 G70	Standard Gen5 Navigation	IK.USA.SOP.V136.230410.STD_H	NAM.16.41.71.012.302.9	IKAS.S5AMC.US	2022-23 G70	Standard Gen5W Navigation	IKFL.USA.S5W_M.V010.001.230517	NAM.16.41.71.012.512.0	IKFAS.S5BMC.US	G80	2014-16 G80 (8 in. Touchscreen)	Standard Gen4 Navigation	ST.DH.USA.E542.230419	NAM.16.41.41.712.003.3	DHAS.S4AMC.US	2014 G80 (9.2 in. Touchscreen)	Premium Gen2 Navigation	DH.USA.SOP.xx.030	NAM.16.41.41.712.102.3	DHAS.P2ALC.NA	2015 G80 (9.2 in. Touchscreen)	Premium Gen2 Navigation	DH15MY.USA.SOP.xx.030	NAM.16.41.41.712.102.3	DHAS.P2ALC.NA	2016 G80 (9.2 in. Touchscreen)	Premium Gen2 Navigation	DH16MY.USA.SOP.xx.030	NAM.16.41.41.712.102.3	DHAS.P2ALC.NA	2017 G80 (9.2 in. Touchscreen)	Premium Gen2 Navigation	DH17MY.USA.SOP.xx.030	NAM.16.41.41.712.102.3	DHAS.P2ALC.NA	2017 G80 (8 in. Touchscreen)	Standard Gen4 Navigation	ST.DH17.USA.E542.230419	NAM.16.41.41.712.003.3	DHBS.S4AMC.US	2018 G80 (8 in. Touchscreen)	Standard Gen4 Navigation	ST.DHPE.USA.E542.230419	NAM.16.41.41.712.003.3	DHCS.S4AMN.US	2018 G80 (9.2 in. Touchscreen)	Premium Gen2 Navigation	DHPE.USA.SOP.xx.017	NAM.16.41.41.712.102.3	DHBS.P2ALC.NA	2019 G80 (9.2 in. Touchscreen)	Premium Gen2 Navigation	DH18MY.USA.SOP.xx.017	NAM.16.41.41.712.102.3	DHCS.P2ALC.NA	2019-20 G80 (8 in. Touchscreen)	Standard Gen5 Navigation	DH19.USA.SOP.V136.230410.STD_H	NAM.16.41.71.012.302.9	DHAS.S5AMC.US	2020 G80 (9.2 in. Touchscreen)	Premium Gen5 Navigation	DH19MY.USA.P5.001.011.230426	NAM.16.41.71.012.402.0	DHAS.P5ALC.NA	2021 G80	Premium Gen6 Navigation	RG3.USA.P6.001.006.230420	NAM.16.41.71.012.914.0	RG3AS.P6CLC.US	2022 G80	Premium Gen6 Navigation	RG3_22.USA.P6.001.006.230420	NAM.16.41.71.012.914.0	RG3BS.P6CLC.US	2023 G80	Premium Gen6 Navigation	RG3_22.USA.P6.001.006.230420	NAM.16.41.71.012.914.0	RG3BS.P6CLC.US	G90	2017-19 G90	Harman DIS2	R31.0.013A	DB_HMCDIS2S_NA_NA_S_0000_E01.0035	P.AVN3	2020 G90	Premium Gen5 Navigation	HI.USA.P5.001.011.230426	NAM.16.41.71.012.402.0	HIAS.P5BLC.NA	2021-22 G90	Premium Gen5 Navigation	HI.USA.P5.001.011.230426	NAM.16.41.71.012.402.0	HIBS.P5BLC.NA	2023 G90	ccIC Navigation	RS4.USA.cclC.001.005.230523	NAM.16.41.71.012.918.0	RS4AS.PCBLC.US	GV60	2023 GV60	ccIC Navigation	JW.USA.cclC.001.005.230523	NAM.16.41.71.012.918.0	JWAE.PCBLC.US	GV70	2022 GV70	Premium Gen6 Navigation	JK1.USA.P6.001.006.230420	NAM.16.41.71.012.914.0	JK1AS.P6CLC.US	2023 GV70	Premium Gen6 Navigation	JK1.USA.P6.001.006.230420	NAM.16.41.71.012.914.0	JK1AS.P6CLN.A.US	GV80	2021 GV80	Premium Gen6 Navigation	JX1.USA.P6.001.006.230420	NAM.16.41.71.012.914.0	JX1AS.P6CLC.US	2022 GV80	Premium Gen6 Navigation	JX1_22.USA.P6.001.006.230420	NAM.16.41.71.012.914.0	JX1BS.P6CLC.US	2023 GV80	Premium Gen6 Navigation	JX1_22.USA.P6.001.006.230420	NAM.16.41.71.012.914.0	JX1BS.P6CLC.US	2024 GV80	Premium Gen6 Navigation	JX1_22.USA.P6.001.006.230420	NAM.16.41.71.012.914.0	JX1BS.P6CLC.US
Vehicle	Model	Navigation System	SW Version	MAP Version	Model Name																																																																																																																																																						
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	2022 G80	Premium Gen6 Navigation	RG3_22.USA.P6.001.006.230420	NAM.16.41.71.012.914.0	RG3BS.P6CLC.US																																																																																																																																																						
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G90	2017-19 G90	Harman DIS2	R31.0.013A	DB_HMCDIS2S_NA_NA_S_0000_E01.0035	P.AVN3																																																																																																																																																						
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GV60	2023 GV60	ccIC Navigation	JW.USA.cclC.001.005.230523	NAM.16.41.71.012.918.0	JWAE.PCBLC.US																																																																																																																																																						
GV70	2022 GV70	Premium Gen6 Navigation	JK1.USA.P6.001.006.230420	NAM.16.41.71.012.914.0	JK1AS.P6CLC.US																																																																																																																																																						
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GV80	2021 GV80	Premium Gen6 Navigation	JX1.USA.P6.001.006.230420	NAM.16.41.71.012.914.0	JX1AS.P6CLC.US																																																																																																																																																						
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Claim	Claim Element	Evidence of Infringement
		Genesis Navigation Systems Overview at https://update.genesis.com/US/EN/updateNoticePopup/njAeO8 (MEL_HYUN_TECH_00000039) (yellow annotations added). For example, Hyundai's navigation system has a map data storage section as memory located on the infotainment system. On information and belief, Hyundai's infotainment system is, <i>e.g.</i>, manufactured by LG Electronics or Hyundai Mobis, and every version of Hyundai's navigation system has a substantially similar map data storage section as memory and operates in a substantially similar manner. See, <i>e.g.</i>, Gen5W: Product Name: Car Navigation System Model Name: GEN5 WIDE NX4 User Manual, FCC Filing by LG Electronics USA at https://fccid.io/BEJIWH130FNX4G/User-Manual/User-Manual-4807948.pdf (MEL_HYUN_TECH_00000044) (yellow annotations added). See also: 

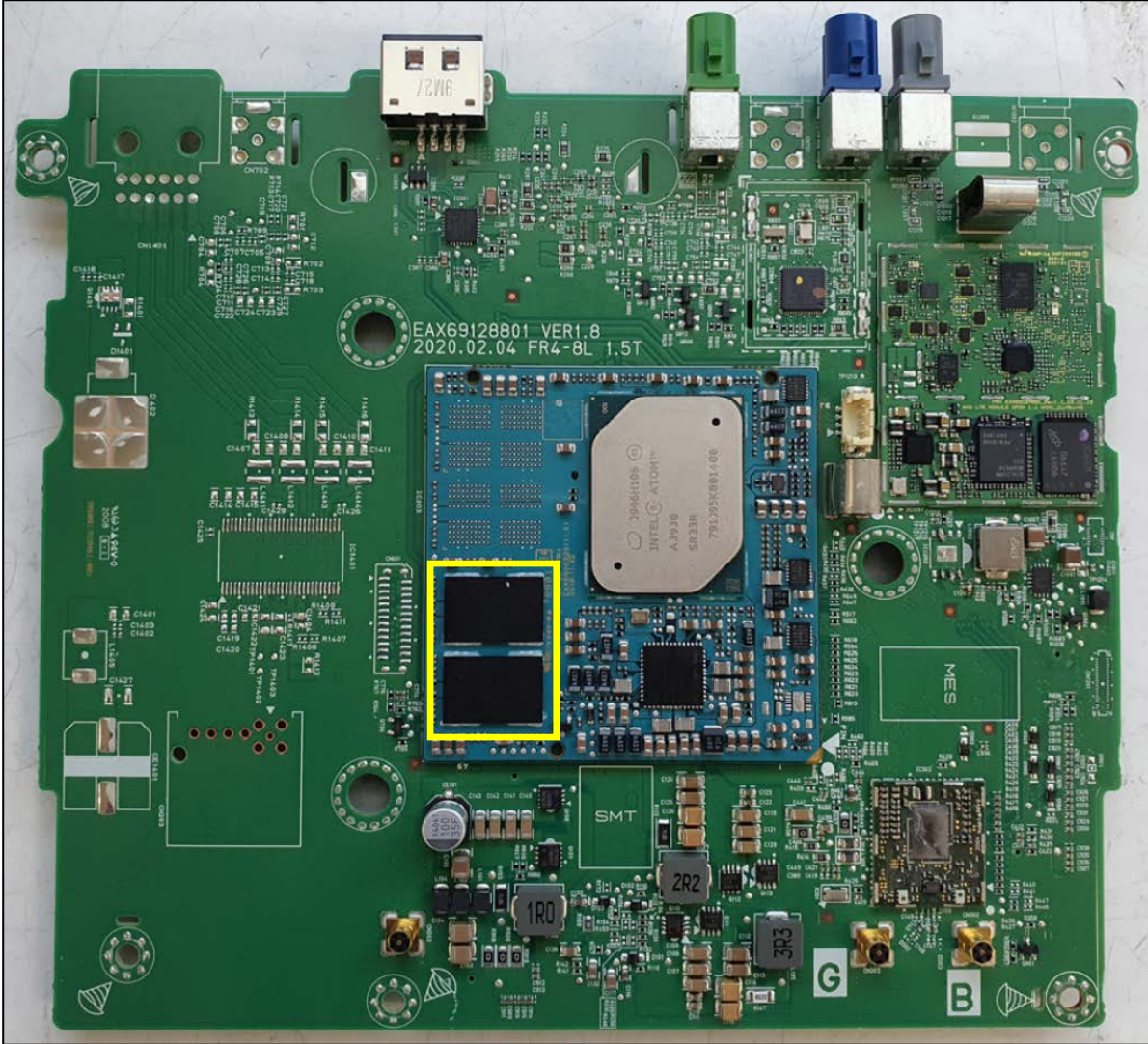
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Claim	Claim Element	Evidence of Infringement
		Label Information, FCC Filing by LG Electronics USA at https://fccid.io/BEJIWH130FNX4G/Label/Label-Information-4807949 (MEL_HYUN_TECH_00000073) (yellow annotations added). <i>See also:</i>

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Claim	Claim Element	Evidence of Infringement
		 Internal Photos, FCC Filing by LG Electronics USA at https://fccid.io/BEJIWH130FNX4G/Internal-Photos/Internal-Photos-4807940 (MEL_HYUN_TECH_00000077) (yellow annotations added).

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Claim	Claim Element	Evidence of Infringement
		See, e.g., Gen6:  User Manual, FCC Filing by LG Electronics USA at https://fccid.io/BEJIA0R370TEJK/Users-Manual/User-Manual-4943484 (MEL_HYUN_TECH_00000084) (yellow annotations added). See also:

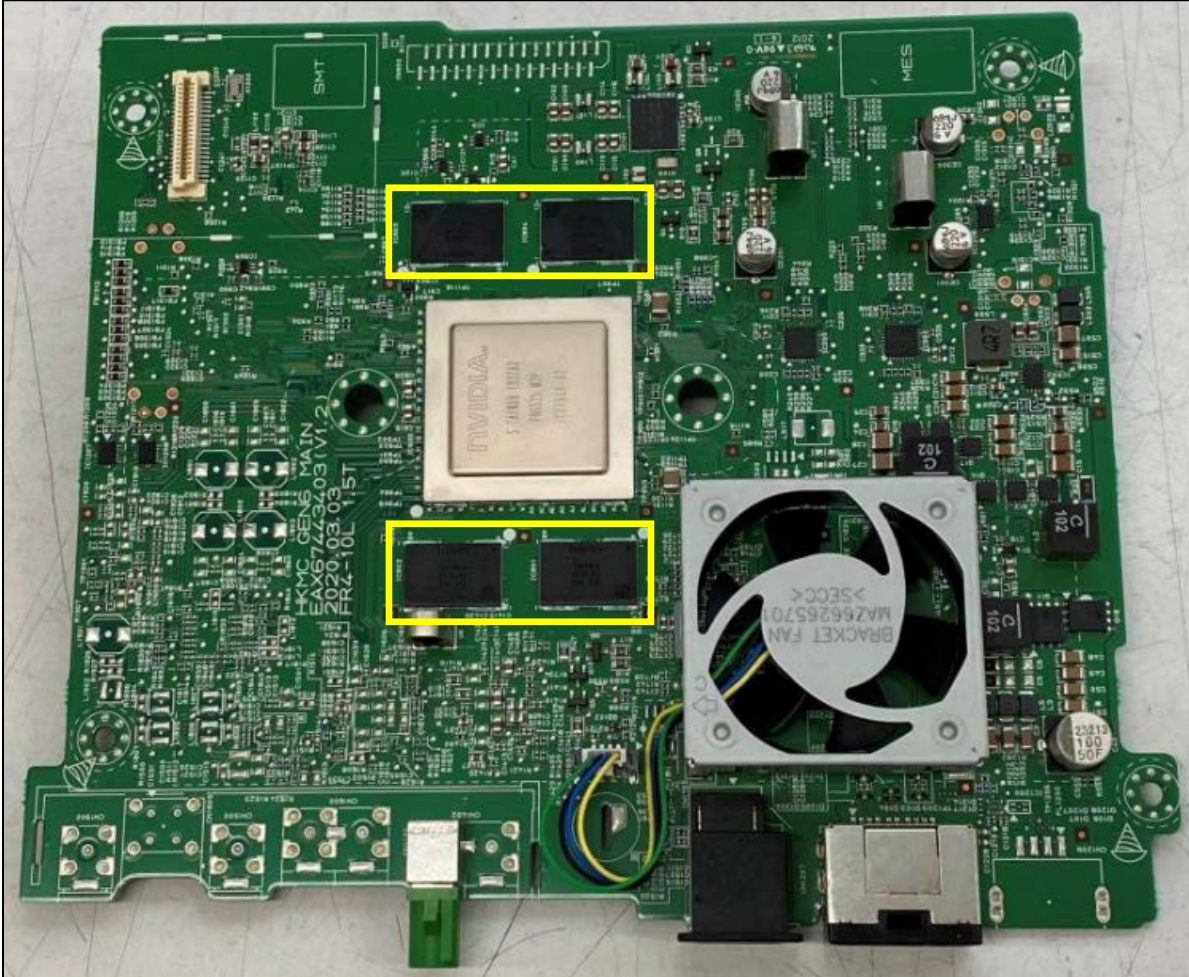
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Claim	Claim Element	Evidence of Infringement
		 ...

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Claim	Claim Element	Evidence of Infringement
		 Internal Photos, FCC Filing by LG Electronics USA at https://fccid.io/BEJIA0R370TEJK/Internal-Photos/Internal-Photos-4943475 (MEL_HYUN_TECH_00000100-MEL_HYUN_TECH_00000101) (yellow annotations added). For example, Hyundai's navigation system has a map data storage section for storing map data composed of roads (represented as gray and/or blue lines in the images below) for a route search, and

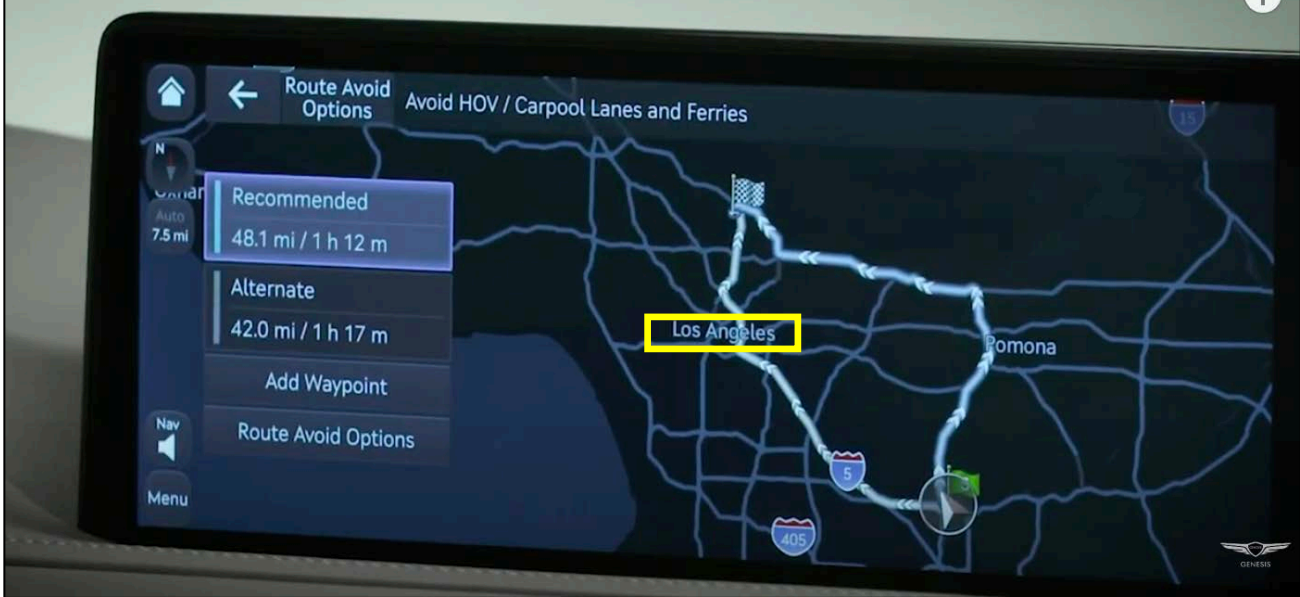
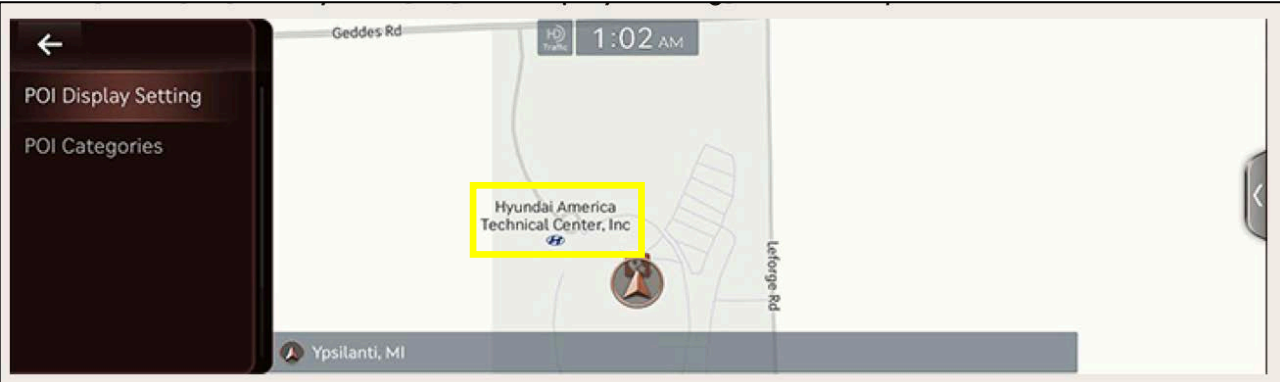
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Claim	Claim Element	Evidence of Infringement
		display elements, such as, <i>inter alia</i>, city centers (represented as text such as “Canton” or “Los Angeles” in the images below), and facilities (represented by graphical icons and text in the images below). See, e.g., Gen5W:  2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-20, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000570) (yellow annotations added). See, e.g., Gen6:

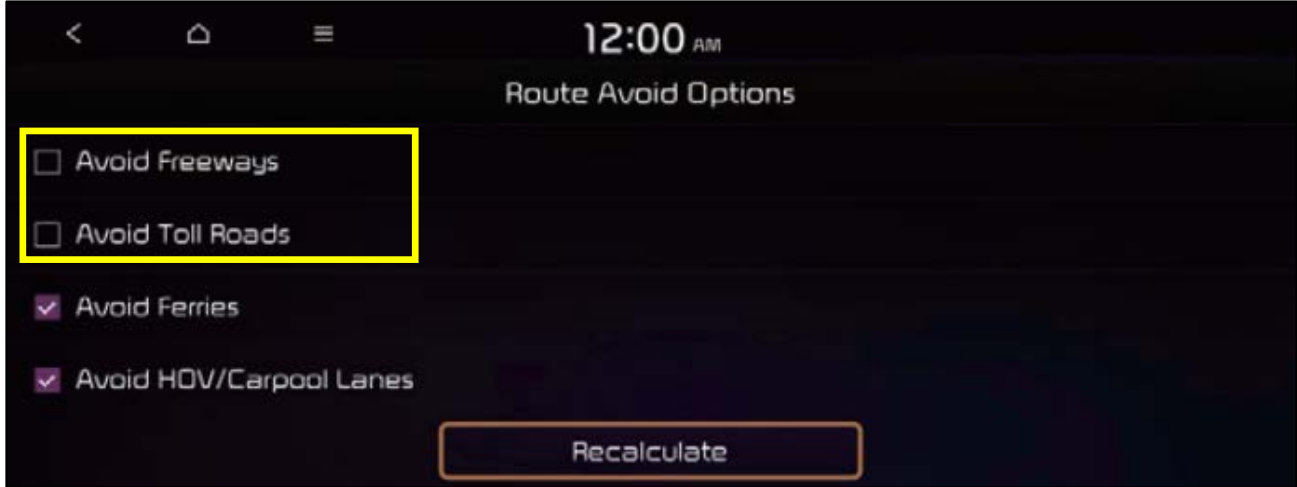
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Claim	Claim Element	Evidence of Infringement
		 Navigation – Routing Genesis G80 and GV80 How-To Genesis USA, at 1:06, at https://www.youtube.com/watch?v=aM90psllpM8 (MEL_HYUN_TECH_00001318) (yellow annotations added). See also: 

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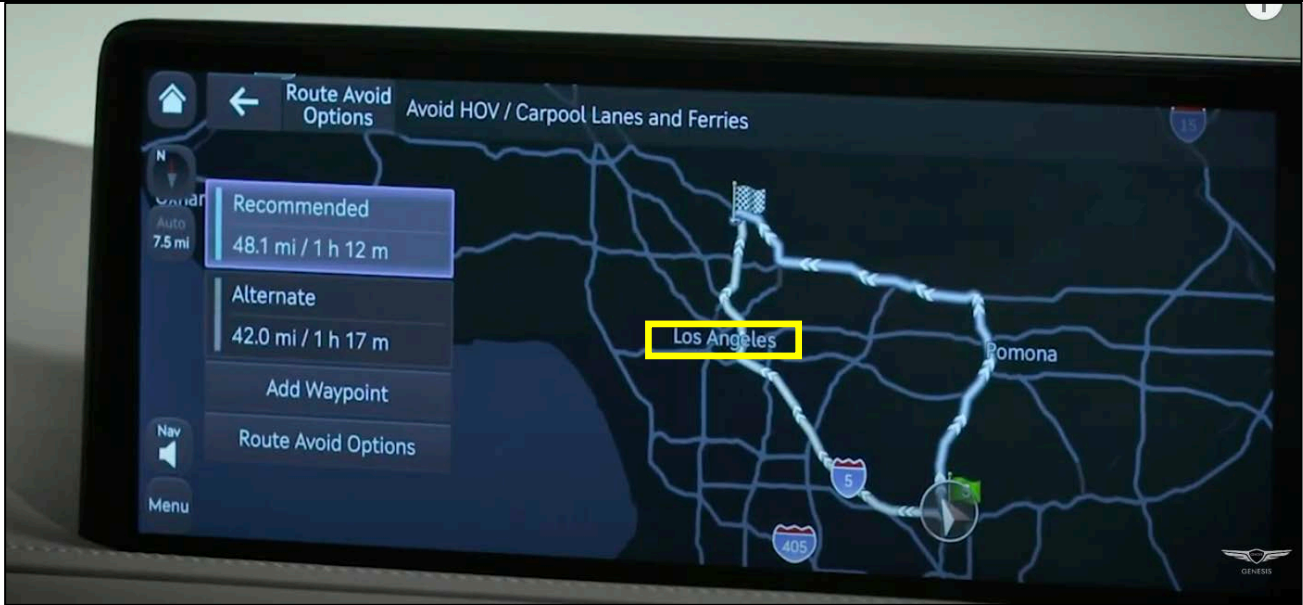
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Claim	Claim Element	Evidence of Infringement
		Gen 6 Premium Class Navigation, 2021 Genesis G80, Owner's Manual Warranty, at p. 36, at https://owners.genesis.com/genesis/us/mygenesis/manuals/glovebox-manual/2021/g80/2021-G80-Gen6-Premium-Navigation-Manual.PDF (MEL_HYUN_TECH_00000138) (yellow annotations added). For example, map data includes classes, such as a road class, city center class, and a facility class. As a non-limiting example, the road class has a freeway and a toll road subclass/attribute. See, e.g., Gen5W:  2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-20, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000570) (yellow annotations added). See, e.g., Gen6: [Route Avoid Options]: Modifies various route options according to your needs. Gen 6 Premium Class Navigation, 2021 Genesis G80, Owner's Manual Warranty, at p. 57, at https://owners.genesis.com/genesis/us/mygenesis/manuals/glovebox-manual/2021/g80/2021-G80-Gen6-Premium-Navigation-Manual.PDF (MEL_HYUN_TECH_00000159).

Claim	Claim Element	Evidence of Infringement
		For example, display element city centers (represented as text such as “Canton” or “Los Angeles” in the images below) represent a city and indicate a representative position of the city. <i>See, e.g., Gen5W:</i>  2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-20, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000570) (yellow annotations added). <i>See, e.g., Gen6:</i>

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Claim	Claim Element	Evidence of Infringement
		 Navigation – Routing Genesis G80 and GV80 How-To Genesis USA, at 1:06, at https://www.youtube.com/watch?v=aM90psllpM8 (MEL_HYUN_TECH_00001318) (yellow annotations added). For example, roads have attributes, <i>e.g.</i>, a size attribute such as small (such as residential roads) or large roads (such as highways), that indicate whether or not each of the roads should be displayed depending on the map scale. For example, only large roads will be displayed when the map scale is large. <i>See, e.g., Gen5W:</i>

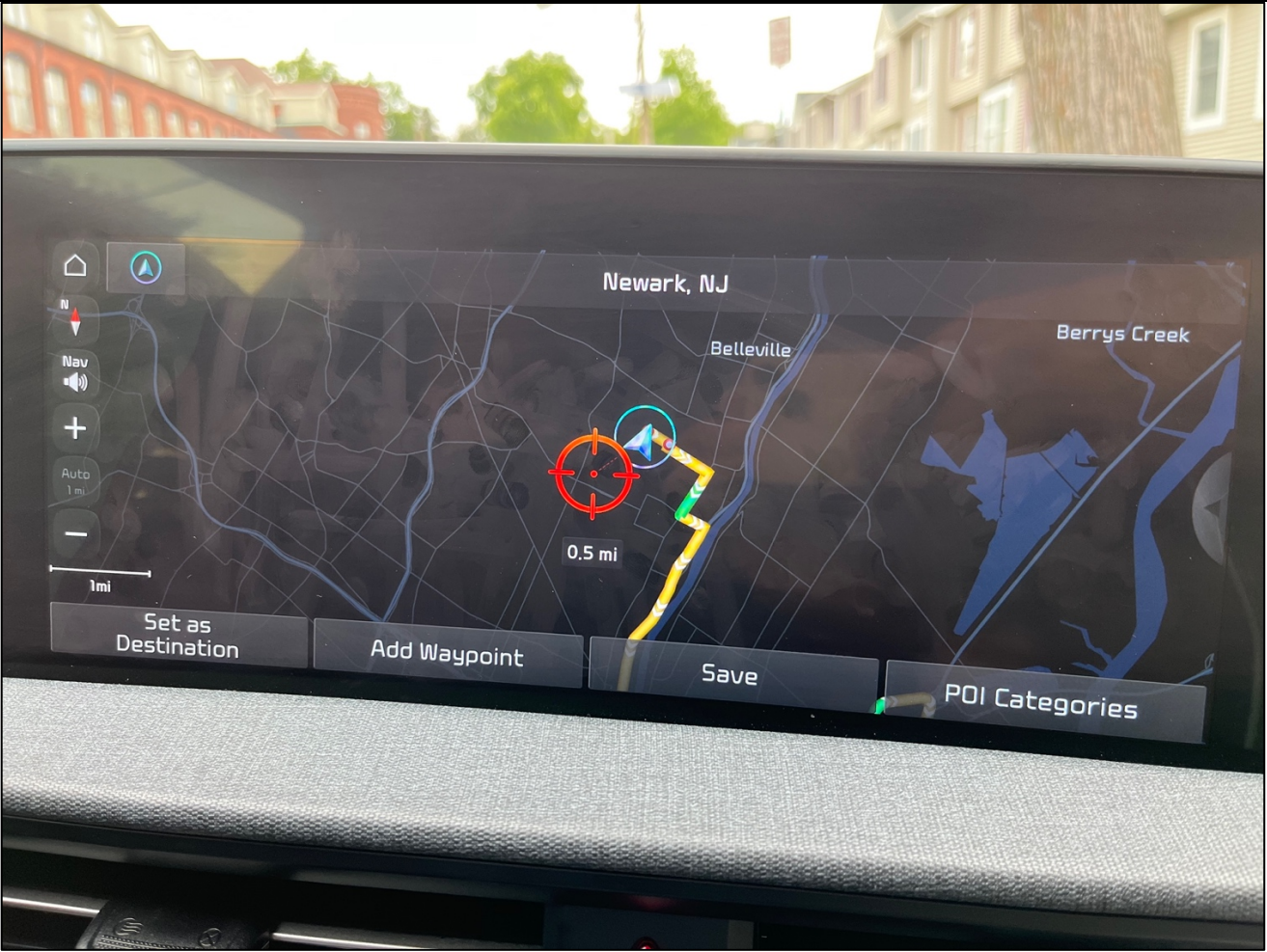
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Claim	Claim Element	Evidence of Infringement
		 Photo of 2022 KIA EV6 Navigation System (MEL_HYUN_TECH_00001323). <i>See also:</i>

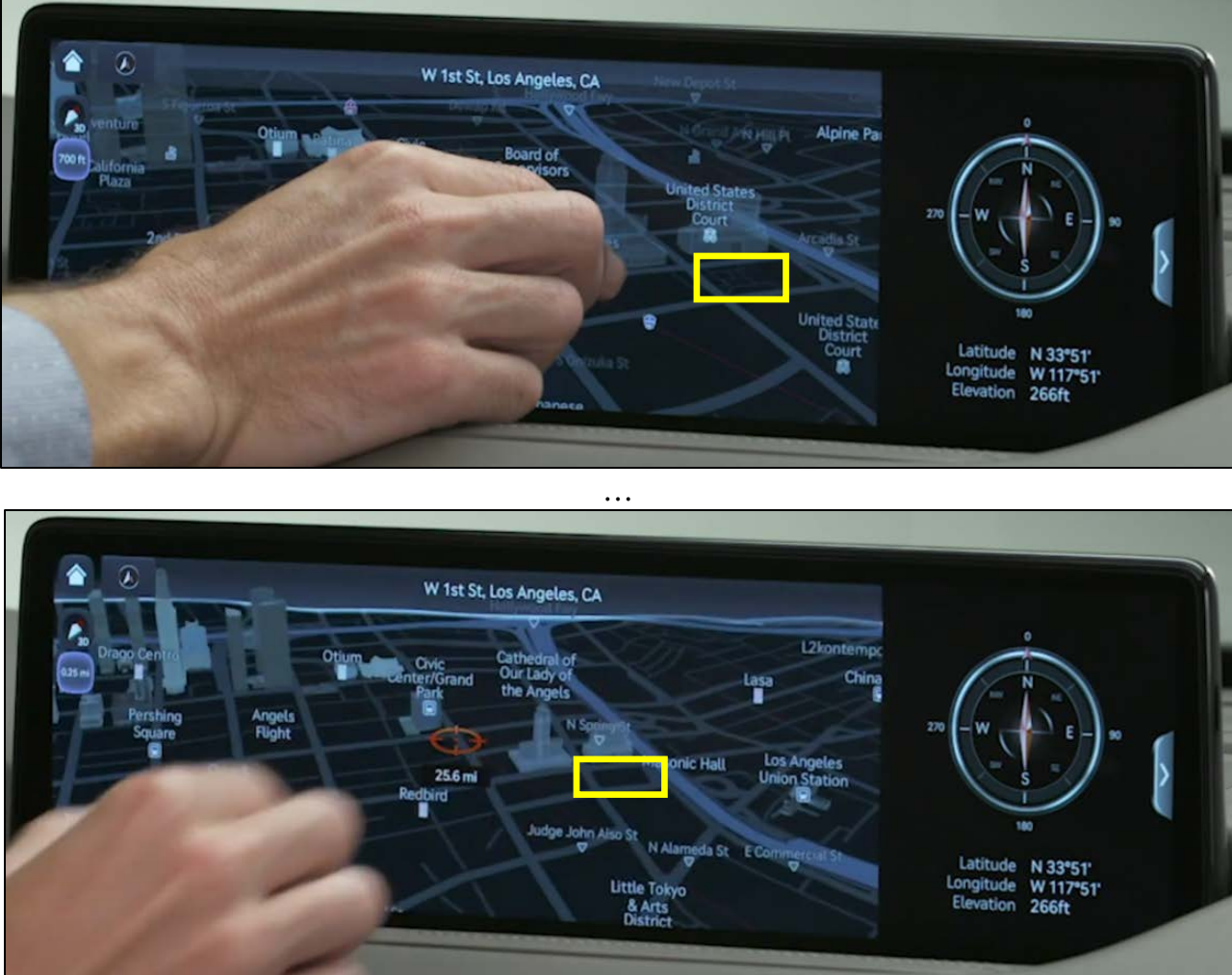
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Claim	Claim Element	Evidence of Infringement
		 Photo of 2022 KIA EV6 Navigation System (MEL_HYUN_TECH_00001322). See, e.g., Gen6:

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Claim	Claim Element	Evidence of Infringement
		 Navigation – Map View Genesis G80 and GV80 How-To Genesis USA, at 1:51-1:54, at https://www.youtube.com/watch?v=DsdeLAWetm4 (MEL_HYUN_TECH_00001320-MEL_HYUN_TECH_00001321) (yellow annotations added).

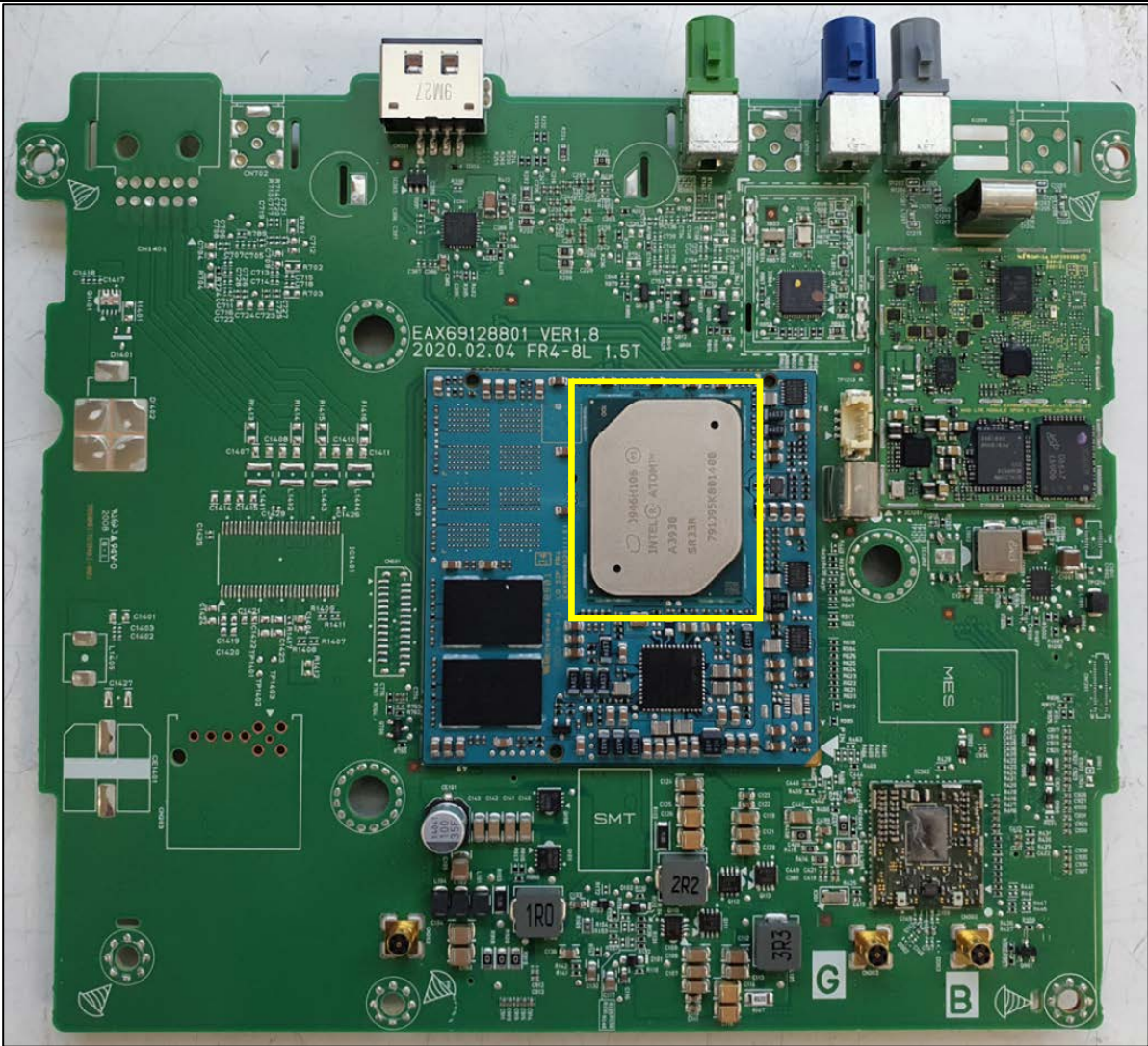
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Claim	Claim Element	Evidence of Infringement
		For example, Hyundai’s navigation system has a position information acquiring section, <i>e.g.</i>, a GPS system, for obtaining position information on a vehicle. <i>See, e.g.</i>, Gen5W: GPS Information You can see the GPS satellite status and coordinates of the current position. 2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 9-65, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000727) (yellow annotations added). <i>See, e.g.</i>, Gen6: • [GPS Information]: Provides GPS information. ... • When a long distance route is calculated while driving on an expressway, in such cases, continued driving will automatically enable the system to conduct map matching or use updated GPS information to provide the current position. (In such cases, up to several minutes may be required.) Gen 6 Premium Class Navigation, 2021 Genesis G80, Owner’s Manual Warranty, at pp. 206, 282, at https://owners.genesis.com/genesis/us/mygenesis/manuals/glovebox-manual/2021/g80/2021-G80-Gen6-Premium-Navigation-Manual.PDF (MEL_HYUN_TECH_00000308, MEL_HYUN_TECH_00000384) (yellow annotations added). For example, Hyundai’s navigation system has a control section, <i>e.g.</i>, a CPU processor or microcontroller, including drawing memory for drawing a map. On information and belief, every version of Hyundai’s navigation system has a substantially similar control section as a CPU processor or microcontroller and operates in a substantially similar manner. <i>See, e.g.</i>, Gen5W:

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Claim	Claim Element	Evidence of Infringement
		 Internal Photos, FCC Filing by LG Electronics USA at https://fccid.io/BEJIWH130FNX4G/Internal-Photos/Internal-Photos-4807940 (MEL_HYUN_TECH_00000077) (yellow annotations added).

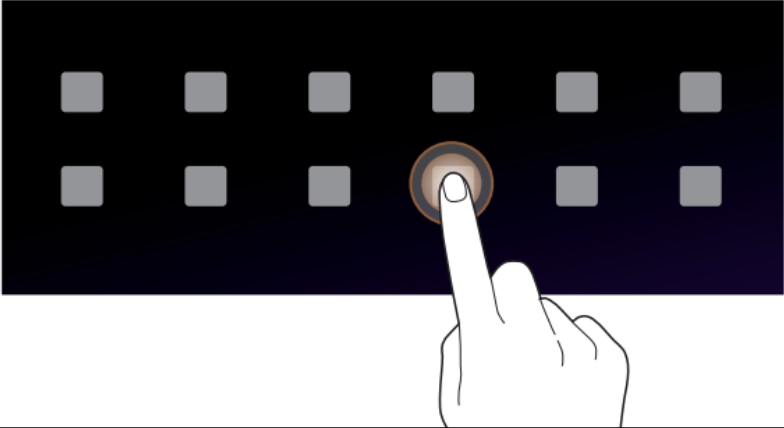
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Claim	Claim Element	Evidence of Infringement
		<i>See, e.g., Gen6:</i>  Internal Photos, FCC Filing by LG Electronics USA at https://fccid.io/BEJIA0R370TEJK/Internal-Photos/Internal-Photos-4943475 (MEL_HYUN_TECH_00000100) (yellow annotations added).

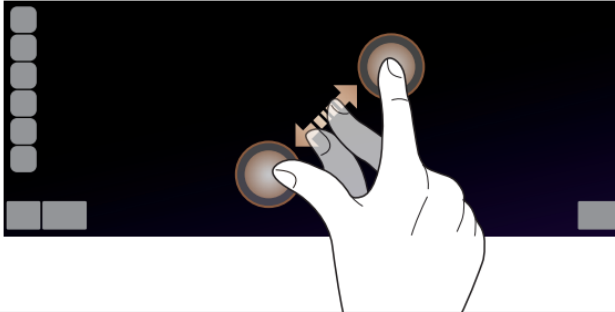
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Claim	Claim Element	Evidence of Infringement
		For example, Hyundai's navigation system has an input section for inputting an instruction from the user, <i>e.g.</i>, inputting a destination to route the user to and the desired scale of the map using touchscreen, button, and/or voice input controls. See, <i>e.g.</i>, Gen5W: "Press" gesture Lightly press the desired item and release the finger. The corresponding function is run or the corresponding menu is selected.  2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 1-8, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000460). See also:

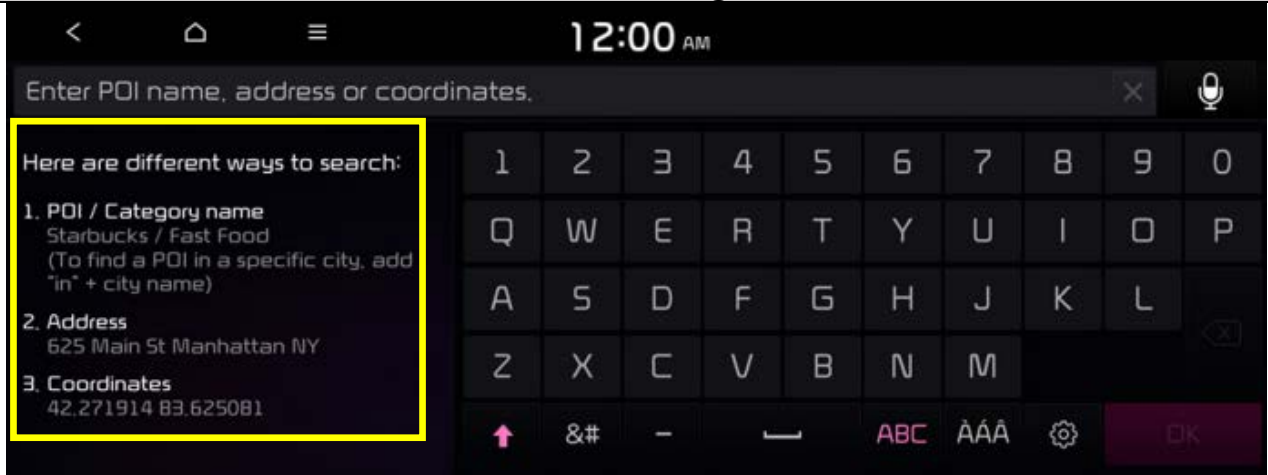
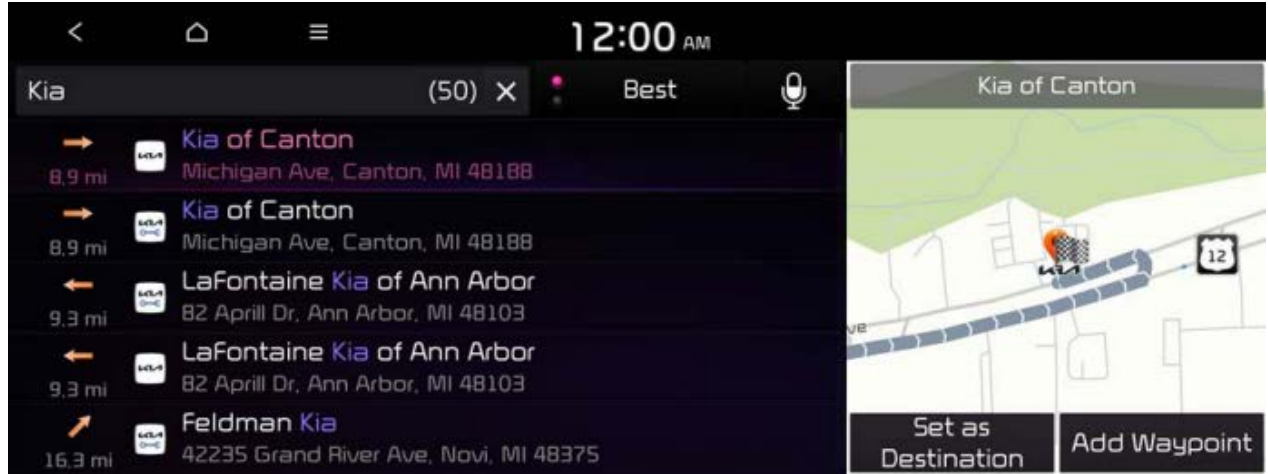
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Claim	Claim Element	Evidence of Infringement
		"Spread/pinch" gesture On the map screen, press and hold the screen with two fingers and spread or pinch the fingers. It is used to zoom in or out the map.  2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 1-10, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000462). <i>See also:</i> Zooms In/Out on the Map You can zoom in or out the map by using the Search knob on the map. 2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 9-42, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000704). <i>See also:</i>

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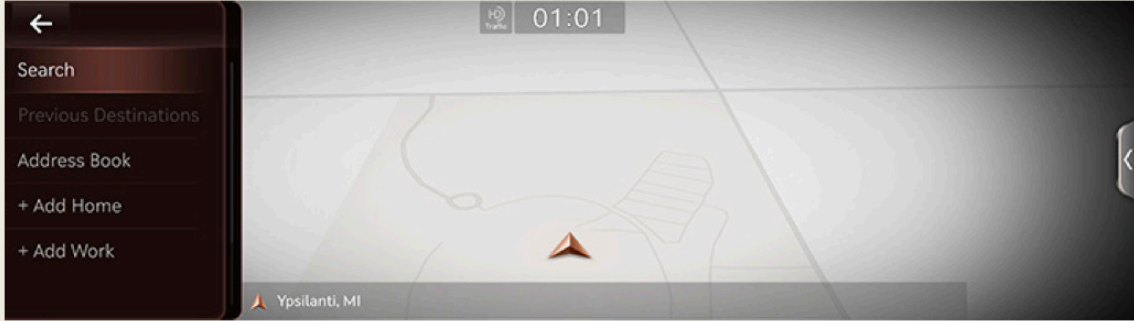
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Claim	Claim Element	Evidence of Infringement
		 2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-12, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000562) (yellow annotations added). <i>See also:</i>  2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-12, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000562).

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Claim	Claim Element	Evidence of Infringement
		See also:  2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-12, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000562) (yellow annotations added). See, e.g., Gen6: MANUALLY SWITCHING MAP SCALE Rotate controller on the front seat key to left/right or zoom in/out with your finger on the map screen to change the map scale. Gen 6 Premium Class Navigation, 2021 Genesis G80, Owner's Manual Warranty, at p. 31, at https://owners.genesis.com/genesis/us/mygenesis/manuals/glovebox-manual/2021/g80/2021-G80-Gen6-Premium-Navigation-Manual.PDF (MEL_HYUN_TECH_00000133). See also:

Claim	Claim Element	Evidence of Infringement
		DESTINATION SEARCH SCREEN Press [Menu] > [Destination] on the map screen.  The screenshot shows a map interface with a dark overlay menu on the left. The menu includes options: Search, Previous Destinations, Address Book, + Add Home, and + Add Work. The map background shows a road network with a red location pin and the text 'Ypsilanti, MI' at the bottom. A status bar at the top right shows a signal icon and the time '01:01'. Search The search results by the complete name or initial, phone number or address are specified on the map screen. Previous Destination A destination is searched by [Favorite destinations], [Previous destinations], [Searches]. Address Book Searches a destination registered in address book menu. Add Home/Home • Save home at the address book. • Searches registered home as a destination. Add Work/Work • Save work at the address book. • Searches registered work as a destination.

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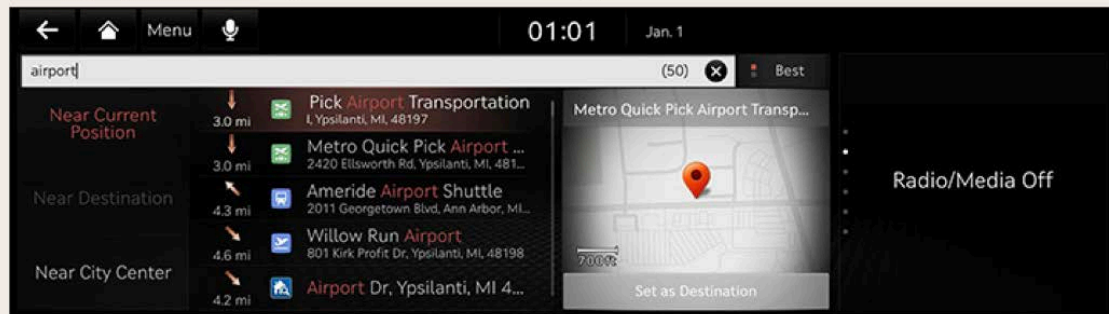
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Sets a destination by entering the full name or initial, phone number or address.

1. Press [Menu] > [Destination] > [Search] on the map screen.

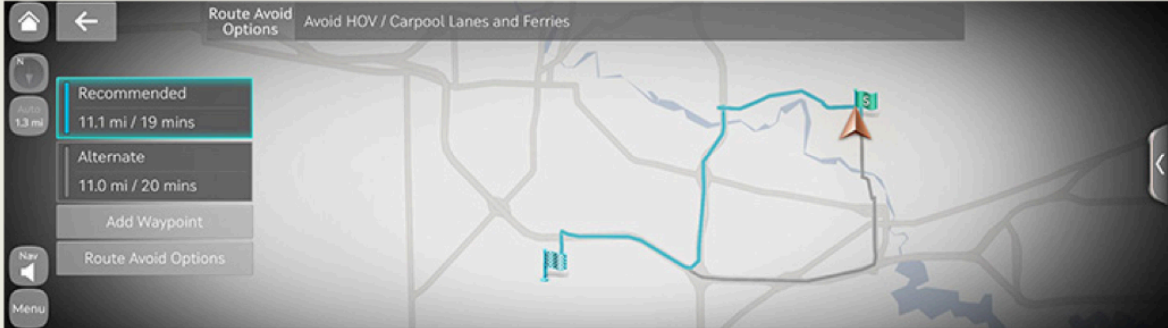


2. Press [Q] after entering the full name or initial, phone number or address.



3. Press the desired location in the list.



Claim	Claim Element	Evidence of Infringement
		... 4. Select the desired item. • [Set as Destination]: Sets the destination. • [Add Waypoint]: Adds waypoint after setting destination. • [Save]: Adds the location to address book menu. • [Nearby POIs]: Sets to display the POI category on the map screen. • [Parking]: Displays the parking lot around the destination. • [Call]: Makes a phone call. If no phone number is saved or Bluetooth is not connected, the call is not available. • [Display off]: Turns off the screen. • [Web Manual]: Displays the QR code for the manual of corresponding function. • [Split screen]: Displays split screen selection menu. 5. Press [Set as Destination].  6. Press a desired route. (Recommended, Alternate) • [Recommended]: Guides the optimal route to the destination by considering the real-time traffic information, distance and cost. • [Alternate]: Guides the alternate route to the destination. 7. Start guidance.

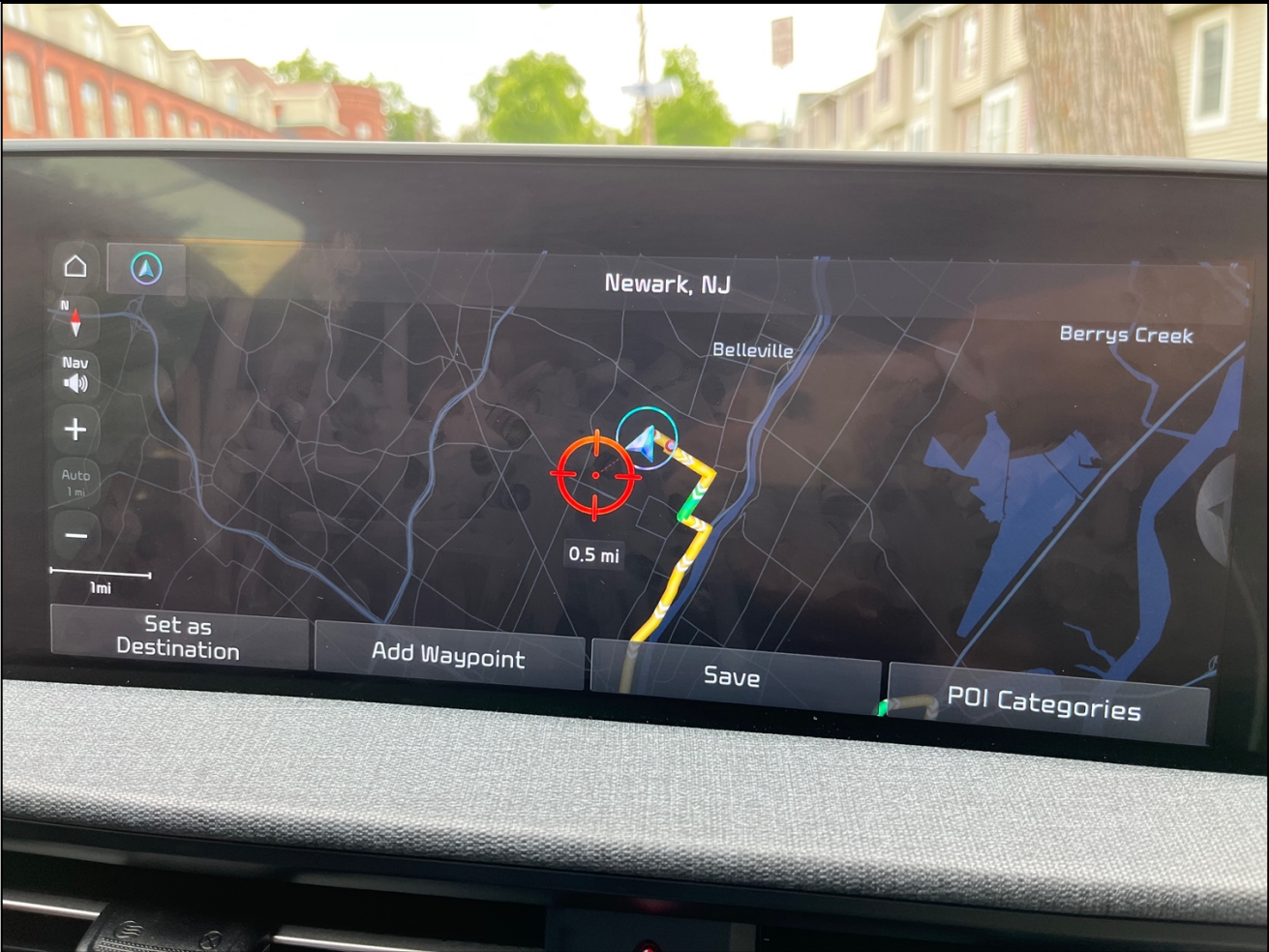
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Claim	Claim Element	Evidence of Infringement
		Gen 6 Premium Class Navigation, 2021 Genesis G80, Owner's Manual Warranty, at pp. 47-49, at https://owners.genesis.com/genesis/us/mygenesis/manuals/glovebox-manual/2021/g80/2021-G80-Gen6-Premium-Navigation-Manual.PDF (MEL_HYUN_TECH_00000149-MEL_HYUN_TECH_00000151). For example, Hyundai's navigation system has a display section for displaying the map data discussed above on a screen. See, e.g., Gen5W:  ... Dual Panoramic 12.3-inch screens⁸ provide a combined 24.6 inches of stunning, high-definition display of key info like battery status, range, nearby charging stations, and infotainment functions. 2022 KIA EV6 Brochure, at p. 7 (MEL_HYUN_TECH_00000418) (yellow annotations added). See also:

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Claim	Claim Element	Evidence of Infringement
		 Photo of 2022 KIA EV6 Navigation System (MEL_HYUN_TECH_00001322). See, e.g., Gen6:

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Claim	Claim Element	Evidence of Infringement
		 Navigation – Routing Genesis G80 and GV80 How-To Genesis USA, at 1:00, at https://www.youtube.com/watch?v=aM90psllpM8 (MEL_HYUN_TECH_00001317) (yellow annotations added).
5[b]	calculating a route between an own-vehicle position and a destination represented by one of the display elements, the destination being instructed by the user via the input section;	Hyundai calculates a route between an own-vehicle position and a destination represented by one of the display elements, the destination being instructed by the user via the input section. For example, Hyundai calculates a route (represented as a highlighted line with arrows and/or blue line in the images below), between an own-vehicle position, <i>e.g.</i>, using a GPS location of the vehicle represented by a current position arrow icon, and a destination represented by a display element, <i>e.g.</i>, the checkered and/or blue flag in the images below, wherein the destination was input by the user. See, <i>e.g.</i>, Gen5W: Enter the location data such as place name, address, or coordinates and then press OK. ...

Claim	Claim Element	Evidence of Infringement
		Select a destination from the search result. ... Check the location of the destination and then press Set as Destination.  ... Select a route and press Start Guidance. 2022 KIA EV6 Car Infotainment System Quick Reference Guide, at pp. 5-3 – 5-4, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000553-MEL_HYUN_TECH_00000554). See also:

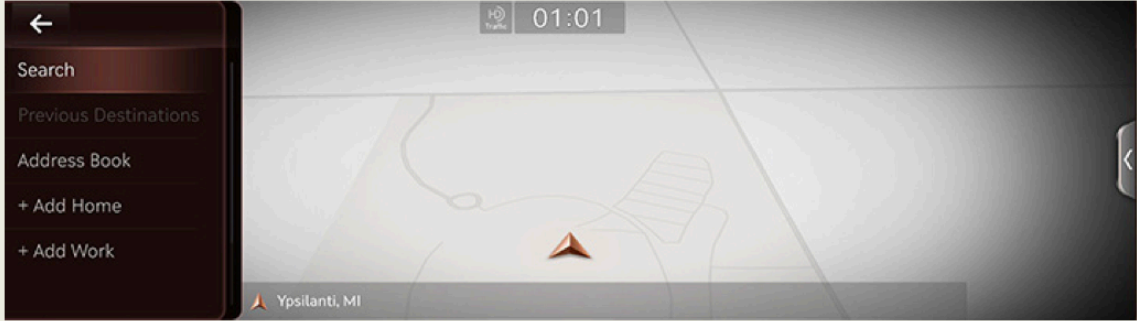
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Claim	Claim Element	Evidence of Infringement
		 2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-19, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000569) (yellow annotations/line added). See, e.g., Gen6:

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Claim	Claim Element	Evidence of Infringement
		DESTINATION SEARCH SCREEN Press [Menu] > [Destination] on the map screen.  Search The search results by the complete name or initial, phone number or address are specified on the map screen. Previous Destination A destination is searched by [Favorite destinations], [Previous destinations], [Searches]. Address Book Searches a destination registered in address book menu. Add Home/Home • Save home at the address book. • Searches registered home as a destination. Add Work/Work • Save work at the address book. • Searches registered work as a destination.

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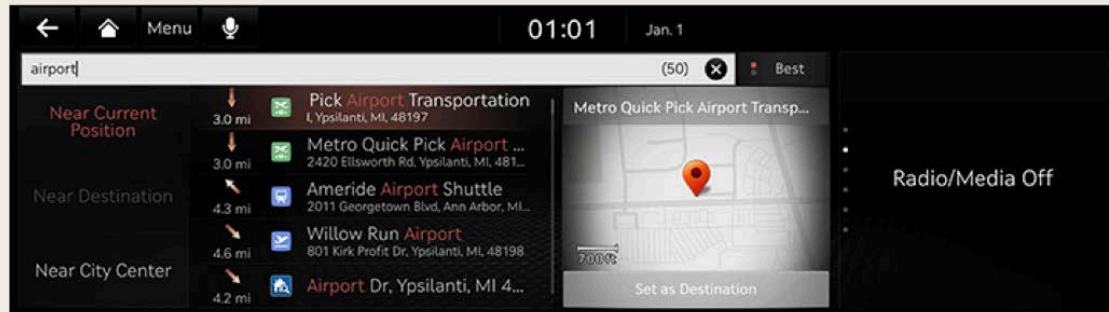
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Sets a destination by entering the full name or initial, phone number or address.

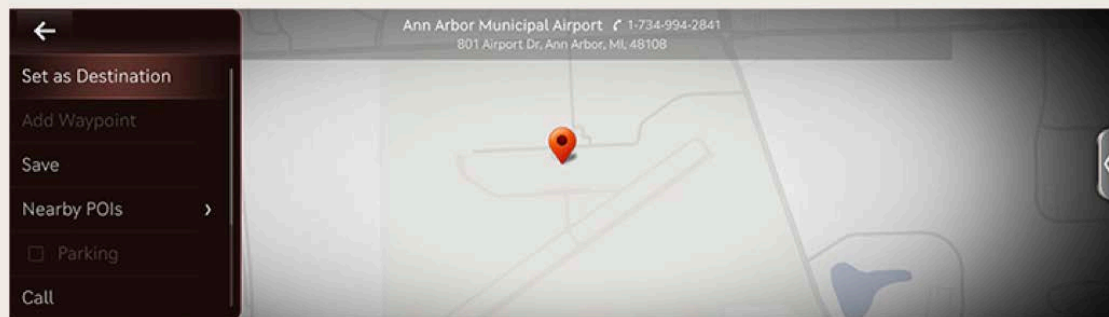
1. Press [Menu] > [Destination] > [Search] on the map screen.

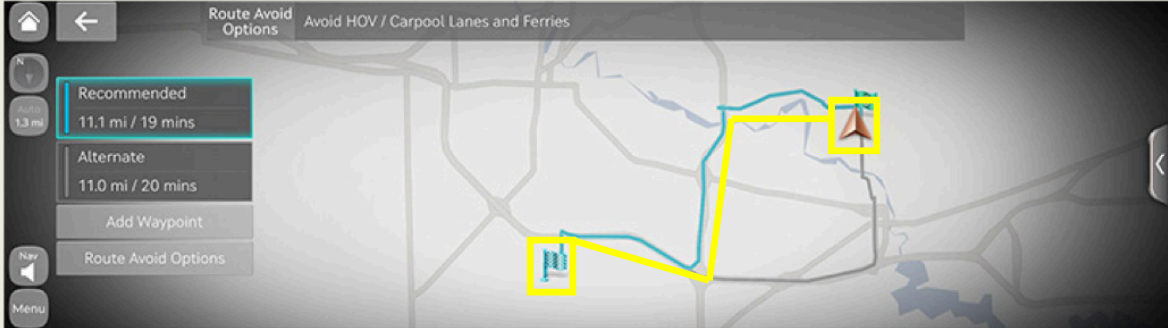


2. Press [Q] after entering the full name or initial, phone number or address.



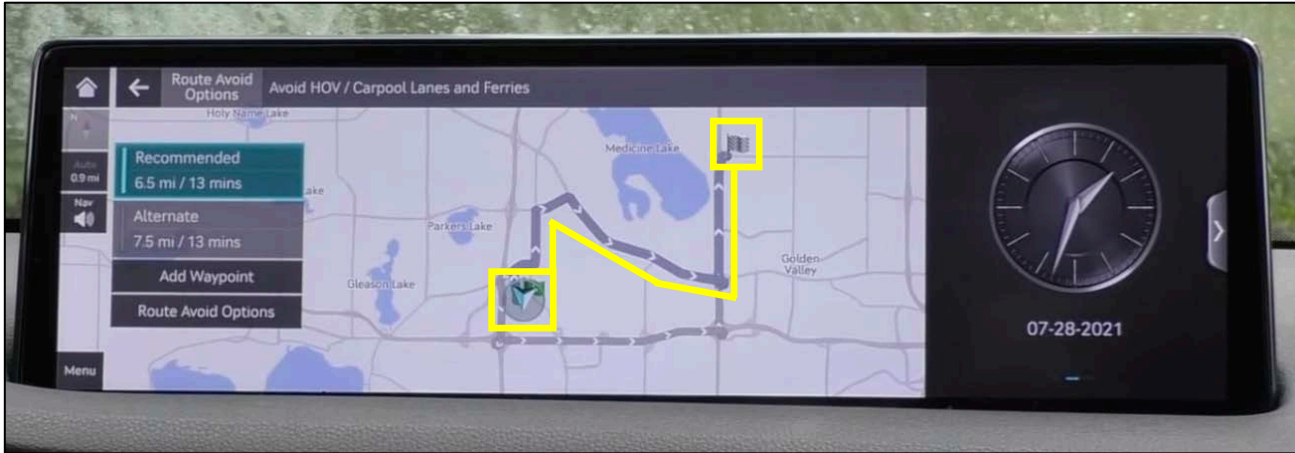
3. Press the desired location in the list.



Claim	Claim Element	Evidence of Infringement
		... 4. Select the desired item. • [Set as Destination]: Sets the destination. • [Add Waypoint]: Adds waypoint after setting destination. • [Save]: Adds the location to address book menu. • [Nearby POIs]: Sets to display the POI category on the map screen. • [Parking]: Displays the parking lot around the destination. • [Call]: Makes a phone call. If no phone number is saved or Bluetooth is not connected, the call is not available. • [Display off]: Turns off the screen. • [Web Manual]: Displays the QR code for the manual of corresponding function. • [Split screen]: Displays split screen selection menu. 5. Press [Set as Destination].  6. Press a desired route. (Recommended, Alternate) • [Recommended]: Guides the optimal route to the destination by considering the real-time traffic information, distance and cost. • [Alternate]: Guides the alternate route to the destination. 7. Start guidance.

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Claim	Claim Element	Evidence of Infringement
		Gen 6 Premium Class Navigation, 2021 Genesis G80, Owner's Manual Warranty, at pp. 47-49, at https://owners.genesis.com/genesis/us/mygenesis/manuals/glovebox-manual/2021/g80/2021-G80-Gen6-Premium-Navigation-Manual.PDF (MEL_HYUN_TECH_00000149-MEL_HYUN_TECH_00000151) (yellow annotations added). <i>See also:</i>  2022 Genesis GV70 – CarTech How To, at 9:53, at https://www.youtube.com/watch?v=YKg6qggICq8&t=37 (MEL_HYUN_TECH_00001329) (yellow annotations added).
5[c]	drawing, according to one of a plurality of map scales designated by the user via the input section, a map on the drawing memory by:	Hyundai draws, according to one of a plurality of map scales designated by the user via the input section, a map on the drawing memory. For example, Hyundai draws a map on the drawing memory for display, wherein the map scale depends on the distance to the destination that was instructed by the input section discussed above and/or the desired map scale instructed by the input section discussed above. <i>See, e.g., Gen5W:</i>

Claim	Claim Element	Evidence of Infringement
		Map screen The map screen provides various functions and informations, as follows:  2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-6, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000556) (yellow annotations added). See also: ④ Zooms in the map. ⑤ The scale of the map automatically changes. ⑥ Zooms out the map.

Claim	Claim Element	Evidence of Infringement
		2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 2-44, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000512). <i>See also:</i>  2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-19, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000569). <i>See also:</i>

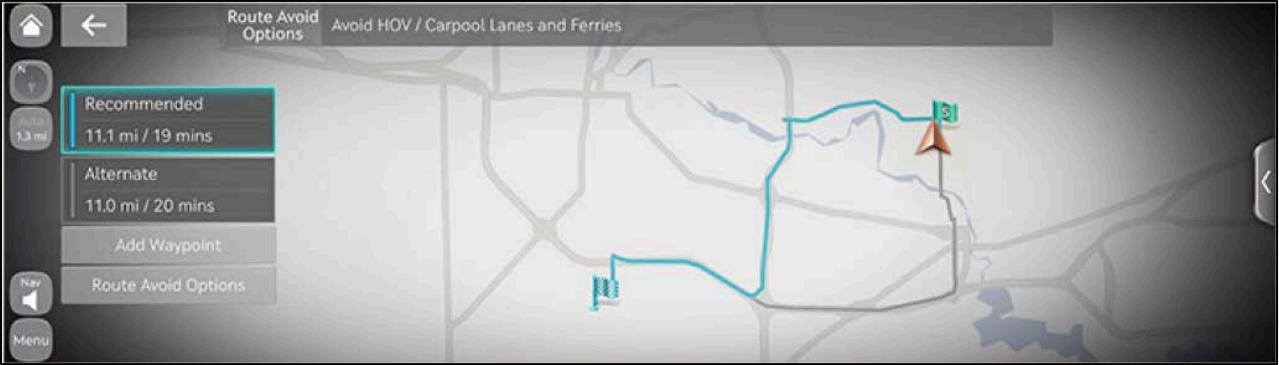
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Claim	Claim Element	Evidence of Infringement
		 Photo of 2022 KIA EV6 Navigation System (MEL_HYUN_TECH_00001323) (yellow annotations added). See, e.g., Gen6:

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Claim	Claim Element	Evidence of Infringement
		 Gen 6 Premium Class Navigation, 2021 Genesis G80, Owner's Manual Warranty, at p. 49, at https://owners.genesis.com/genesis/us/mygenesis/manuals/glovebox-manual/2021/g80/2021-G80-Gen6-Premium-Navigation-Manual.PDF (MEL_HYUN_TECH_00000151). MANUALLY SWITCHING MAP SCALE Rotate controller on the front seat key to left/right or zoom in/out with your finger on the map screen to change the map scale. Gen 6 Premium Class Navigation, 2021 Genesis G80, Owner's Manual Warranty, at p. 31, at https://owners.genesis.com/genesis/us/mygenesis/manuals/glovebox-manual/2021/g80/2021-G80-Gen6-Premium-Navigation-Manual.PDF (MEL_HYUN_TECH_00000133).
5[d]	selecting the roads indicated by the attributes as being displayable according to a designed map scale, the selected roads including an own-vehicle position obtained by the	Hyundai draws a map by selecting the roads indicated by the attributes as being displayable according to a designed map scale, the selected roads including an own-vehicle position obtained by the position information acquiring section. For example, Hyundai's navigation system selects the roads according to its attributes, such as a size attribute, <i>e.g.</i>, small or large roads, to be displayed depending on the instructed map scale. For example, only highly ranked large roads (such as highways) will be displayed when the map scale is large. <i>See, e.g.</i>, Gen5W:

Claim	Claim Element	Evidence of Infringement
	position information acquiring section,	 2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-20, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000570). <i>See also:</i>

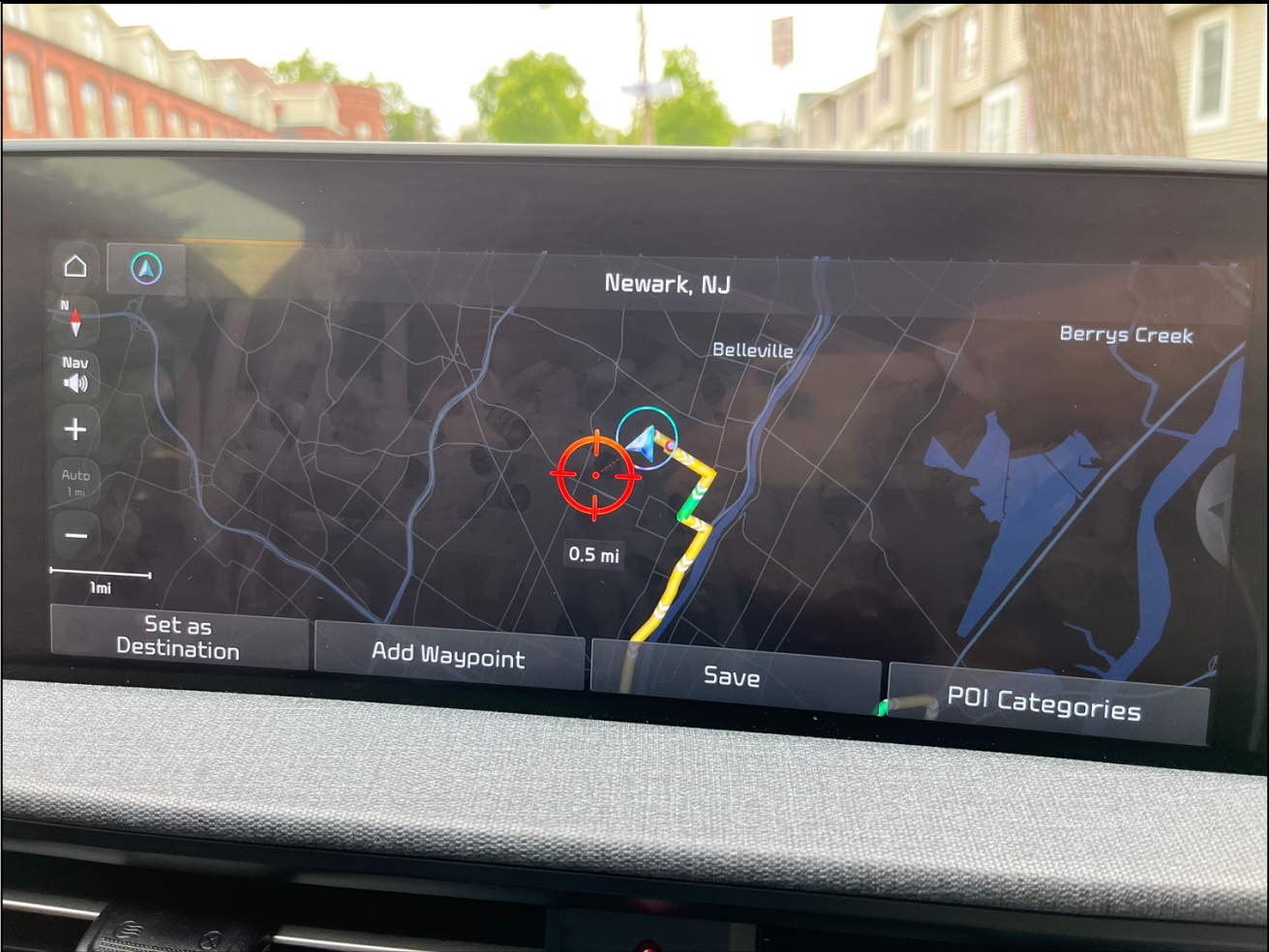
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Claim	Claim Element	Evidence of Infringement
		 Photo of 2022 KIA EV6 Navigation System (MEL_HYUN_TECH_00001323). <i>See also:</i>

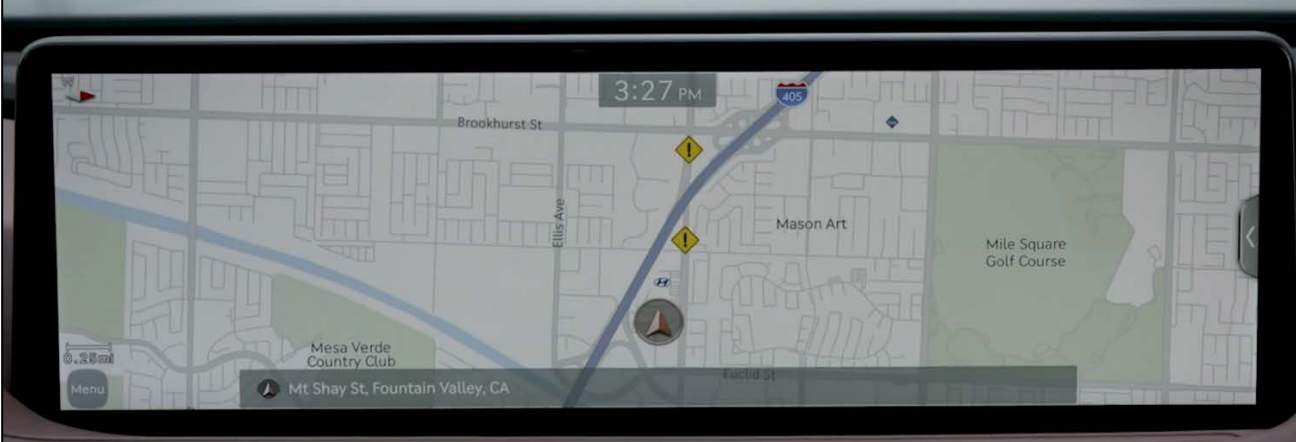
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Claim	Claim Element	Evidence of Infringement
		 Photo of 2022 KIA EV6 Navigation System (MEL_HYUN_TECH_00001322). See, e.g., Gen6:

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Claim	Claim Element	Evidence of Infringement
		 Navigation – Map View Genesis G80 and GV80 How-To Genesis USA, at 0:35, at https://www.youtube.com/watch?v=DsdeLAWetm4 (MEL_HYUN_TECH_00001319). <i>See also:</i>  Gen 6 Premium Class Navigation, 2021 Genesis G80, Owner's Manual Warranty, at p.49, at https://owners.genesis.com/genesis/us/mygenesis/manuals/glovebox-manual/2021/g80/2021-G80-Gen6-Premium-Navigation-Manual.PDF (MEL_HYUN_TECH_00000151). For example, the selected roads include an own-vehicle position (represented as a current position arrow icon) obtained by the position information acquiring section discussed above.

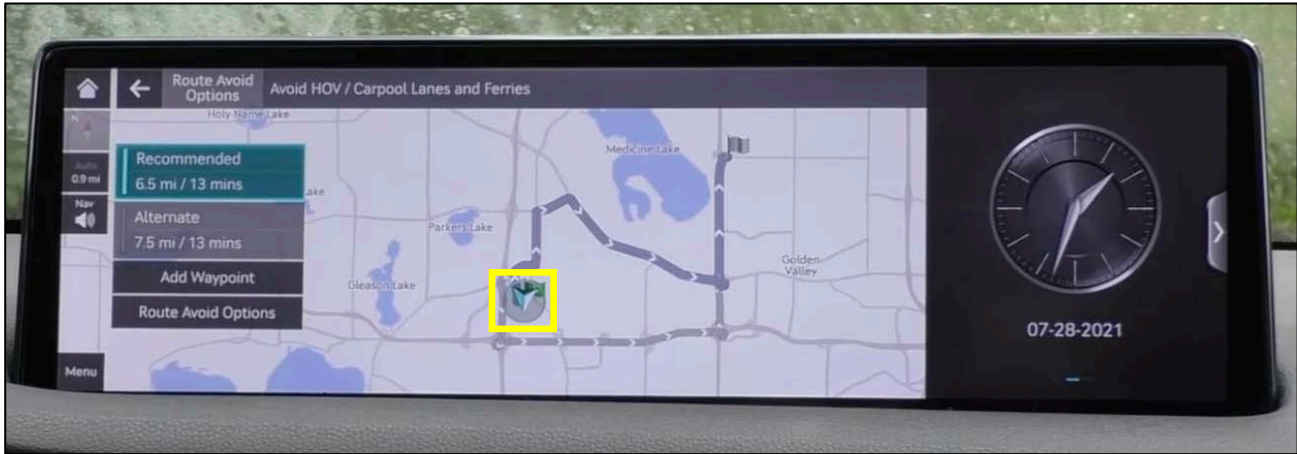
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Claim	Claim Element	Evidence of Infringement
		See, e.g., Gen5W: GPS Information You can see the GPS satellite status and coordinates of the current position. 2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 9-65, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000727) (yellow annotations added). See also:  2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-19, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000569) (yellow annotations added). See, e.g., Gen6: • [GPS Information]: Provides GPS information.

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Claim	Claim Element	Evidence of Infringement
		... When a long distance route is calculated while driving on an expressway, in such cases, continued driving will automatically enable the system to conduct map matching or use updated GPS information to provide the current position. (In such cases, up to several minutes may be required.) Gen 6 Premium Class Navigation, 2021 Genesis G80, Owner's Manual Warranty, at pp. 206, 282, at https://owners.genesis.com/genesis/us/mygenesis/manuals/glovebox-manual/2021/g80/2021-G80-Gen6-Premium-Navigation-Manual.PDF (MEL_HYUN_TECH_00000308, MEL_HYUN_TECH_00000384) (yellow annotations added). <i>See also:</i>  2022 Genesis GV70 – CarTech How To, at 9:53, at https://www.youtube.com/watch?v=YKg6qggICq8&t=37 (MEL_HYUN_TECH_00001329) (yellow annotations added).
5[e]	drawing the selected roads and one or more of the display	Hyundai draws a map by drawing the selected roads and one or more of the display elements on the drawing memory.

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Claim	Claim Element	Evidence of Infringement
	elements on the drawing memory;	For example, Hyundai draws the selected roads and displays elements discussed above on the drawing memory for display. See, e.g., Gen5W:  2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-20, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000570) (yellow annotations added). See, e.g., Gen6:

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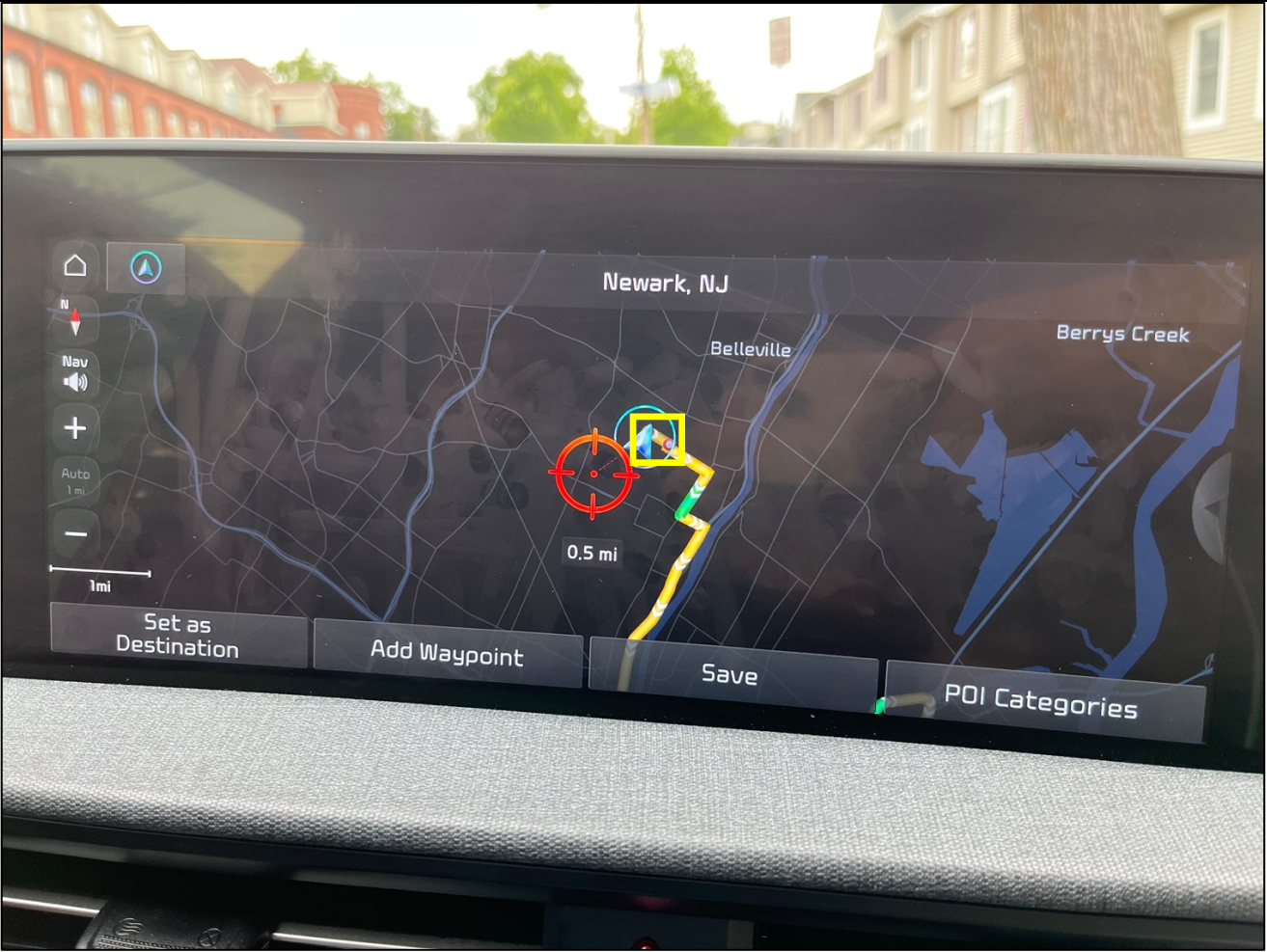
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Claim	Claim Element	Evidence of Infringement
		 Navigation – Routing Genesis G80 and GV80 How-To Genesis USA, at 1:06, at https://www.youtube.com/watch?v=aM90psllpM8 (MEL_HYUN_TECH_00001318) (yellow annotations added).
5[f]	further selecting each of the roads that is part of the calculated route produced as a result of the route calculation, but not indicated by the attributes as being displayable according to the designated map	Hyundai draws a map by further selecting each of the roads that is part of the calculated route produced as a result of the route calculation, but not indicated by the attributes as being displayable according to the designated map scale, on the drawing memory. For example, Hyundai selects and displays the roads that are part of the calculated route even if based on their attribute they would normally be deemed too small to display according to the instructed map scale. For example, the highlighted roads in the image below are too small to be displayed at such a large map scale but are displayed because it is on the calculated route. <i>See, e.g., Gen5W:</i>

Claim	Claim Element	Evidence of Infringement
	scale, on the drawing memory; and	 Photo of 2022 KIA EV6 Navigation System (MEL_HYUN_TECH_00001323) (yellow annotations added). <i>See also:</i>

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Claim	Claim Element	Evidence of Infringement
		 Photo of 2022 KIA EV6 Navigation System (MEL_HYUN_TECH_00001322) (yellow annotations added). <i>See also:</i>

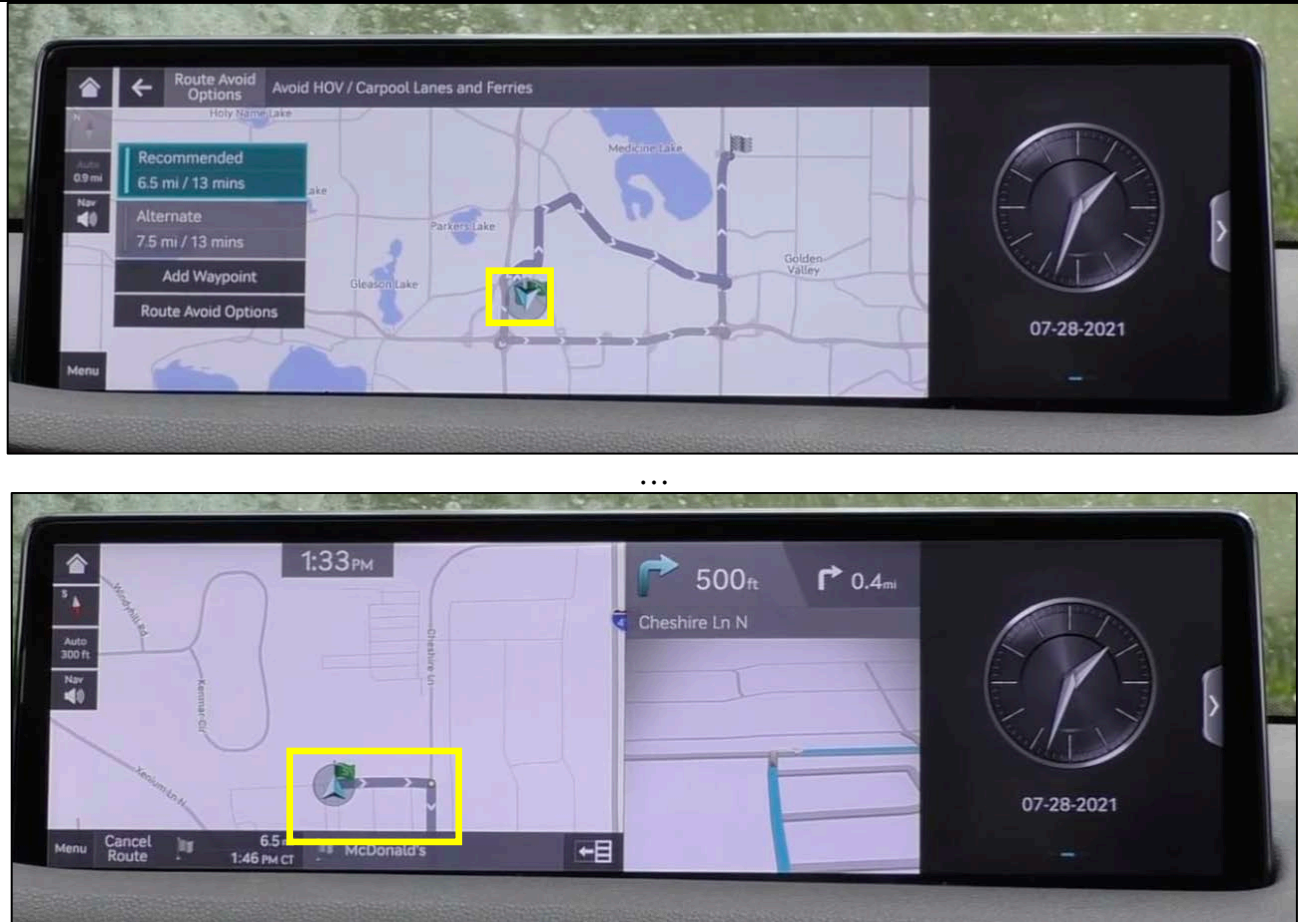
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Claim	Claim Element	Evidence of Infringement
		 Photo of 2022 KIA EV6 Navigation System (MEL_HYUN_TECH_00001322) (yellow annotations added). <i>See, e.g., Gen6:</i>

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Claim	Claim Element	Evidence of Infringement
		 2022 Genesis GV70 – CarTech How To, at 9:53-9:58, at https://www.youtube.com/watch?v=YKg6qggICq8&t=37 (MEL_HYUN_TECH_00001329-MEL_HYUN_TECH_00001330) (yellow annotations added).
5[g]	displaying the road network drawn on the drawing memory	Hyundai draws a map by displaying the road network drawn on the drawing memory on the display section.

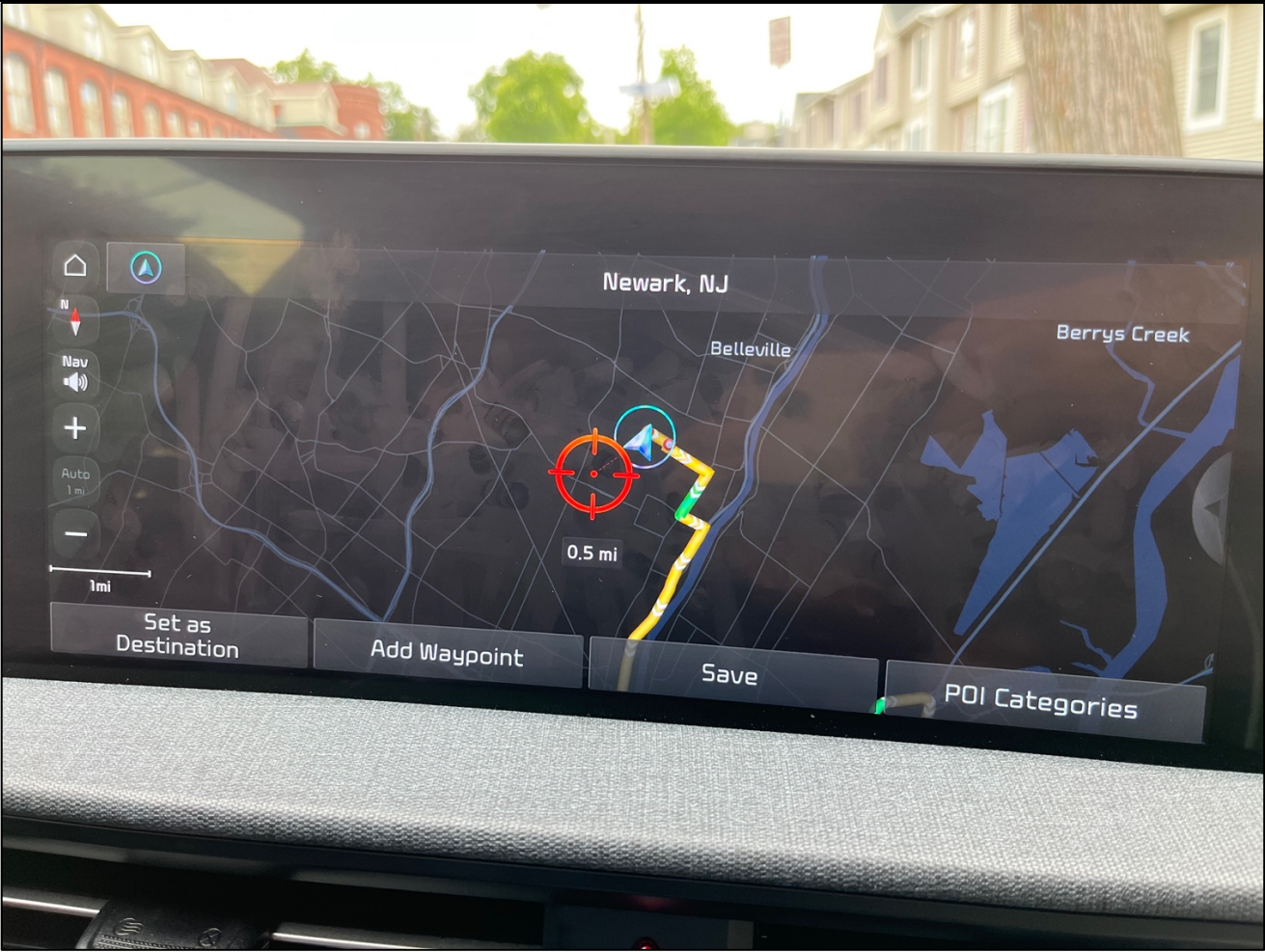
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Claim	Claim Element	Evidence of Infringement
	on the display section.	For example, Hyundai displays the road network drawn on the drawing memory discussed above on the display section discussed above. See, e.g., Gen5W:  2022 KIA EV6 Car Infotainment System Quick Reference Guide, at p. 5-20, at https://owners.kia.com/content/owners/en/manuals.html (MEL_HYUN_TECH_00000570). See also:

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Claim	Claim Element	Evidence of Infringement
		 Photo of 2022 KIA EV6 Navigation System (MEL_HYUN_TECH_00001322). <i>See also:</i>

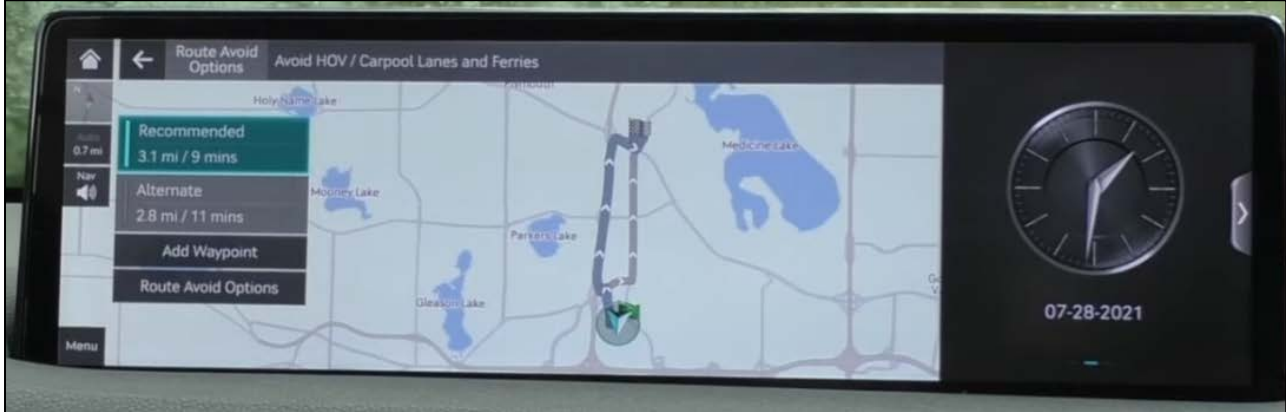
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Claim	Claim Element	Evidence of Infringement
		 Photo of 2022 KIA EV6 Navigation System (MEL_HYUN_TECH_00001323). <i>See, e.g., Gen6:</i>

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Claim	Claim Element	Evidence of Infringement
		 2022 Genesis GV70 – CarTech How To, at 9:08, at https://www.youtube.com/watch?v=YKg6qgggICq8&t=37 (MEL_HYUN_TECH_00001328).

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