

PCT Recordation of Search History

Case/PCT Application Number: PCT/US17/68834

CLIN Number/Technical Field of PCT Application: 4

Dates During Which the Search was Conducted: 08-11 February 2018

Date of Completion of Recordation of Search History Form: 11 February 2018

Research Analyst Initials: RMG

Search Approval Official (SAO) Initials: HKP

Field of Search/Classification Information:

IPC(8): G05D 1/02; G01C 21/34, 21/32, 21/36, 21/26; G01S 15/89; G06T 15/00 (2018.01)

CPC: G05D 1/0088, 1/02; G01C 21/3617, 21/34, 21/32, 21/36, 21/26; G01S 15/89; G06T 15/205

Databases Searched (Patent and Non-Patent Literature (NPL), Including Sub-Databases and Files Searched) and Search Terms Used:

PatSeer (US, EP, WO, JP, DE, GB, CN, FR, KR, ES, AU, IN, CA, Other Countries (INPADOC), RU, AT, CH, TH, BR, PH); EBSCO; IEEE/IEEEXplore; Google/Google Scholar; Keywords: autonomous, vehicle, map, tiles, cache, route, predict, velocity, lane, location

**Database Search String Recordation, Including Dates of Searches
Patent Database Search Strategy/Results**

PatSeer

ID	Search String	Comments	Records	Date
L24	TACD: (map* and ((autonomous or self_driving) ws4 vehicle) and (time ws4 threshold)) And IC: (G05D1/02 or G01C21/34 or G01C21/32 or G01C21/36 or G01C21/26 or G01S15/89 or G06T15/00)		368	11-Feb-18
L23	TACD: (map* and ((autonomous or self_driving) ws4 vehicle) and (time ws4 threshold)) And CPC: (G05D1/0088 or G05D1/02 or G01C21/3617 or G01C21/34 or G01C21/32 or G01C21/36 or G01C21/26 or G01S15/89 or G06T15/205)		335	11-Feb-18
L22	TACD: ((vehicle or car or UAV or drone or automobile or truck or airplane or aircraft) and (map ws4 tile) and (predict* ws6 route) and (tile ws4 route) and (tile ws6 (speed or velocity)))	Search directed to claim 19	3	11-Feb-18
L21	TACD: ((vehicle or car or UAV or drone or automobile or truck or airplane or aircraft) and (map ws4 tile) and (predict* ws6 route) and (tile ws4 route))	Search directed to claim 19	30	11-Feb-18
L20	TACD: ((vehicle or car or UAV or drone or automobile or truck or airplane or aircraft) and (map ws4 tile) and ((identif* or determin*) ws4 lane) and (tile ws4 lane))	Search directed to claim 10	2	11-Feb-18
L18	TACD: ((vehicle or car or UAV or drone or automobile or truck or airplane or aircraft) and (map ws4 tile) and (tile ws4 cach*) and (sensor ws6 (lidar or radar)))		10	11-Feb-18

ID	Search String	Comments	Records	Date
L17	TACD: (((autonomous or self_driving) ws4 (vehicle or car)) and (map ws4 tile))		93	11-Feb-18
L16	TACD: ((vehicle or car or UAV or drone or automobile or truck or airplane or aircraft) and (map ws4 tile) and (tile ws4 cach*) and (time ws6 threshold))		6	11-Feb-18
L15	TACD: (((autonomous or self_driving) ws4 ((vehicle or car) or UAV or drone)) and (map ws4 tile))		94	11-Feb-18
L14	TAC: (((autonomous or self_driving) ws4 (vehicle or car)) and (map ws4 tile))		7	11-Feb-18
L13	TA: (((autonomous or self_driving) ws4 (vehicle or car)) and (map ws4 tile))		0	11-Feb-18
L12	TACD: (map* and ((autonomous or self_driving) ws4 vehicle) and ((time ws4 (threshold or pre_determined or minimum or maximum)) ws10 (portion or region or area or section) ws10 route))		14	11-Feb-18
L11	TACD: (map* and ((autonomous or self_driving) ws4 vehicle) and ((time ws4 threshold) ws10 (portion or region or area or section) ws10 route))		1	11-Feb-18
L10	TACD: (map* and ((autonomous or self_driving) ws4 vehicle) and (time ws4 threshold))		1404	11-Feb-18
L9	TACD: (map* and (cach* ws6 tile) and ((autonomous or self_driving) ws4 vehicle))		11	11-Feb-18
L8	TACD: ((map* ws6 tile) and (cach* ws6 tile) and ((autonomous or self_driving) ws4 vehicle))		0	11-Feb-18

ID	Search String	Comments	Records	Date
L7	TACD: ((map* ws6 tile) and (cach* ws6 tile) and vehicle)		282	11-Feb-18
L6	TAC: ((map* ws6 tile) and (cach* ws6 tile) and vehicle)		1	11-Feb-18
L5	TAC: (map* and tile and cach* and vehicle)		18	11-Feb-18
L4	TA: (map* and tile and cach* and vehicle)		0	11-Feb-18
L3	TA: (map* and cach* and vehicle)		45	11-Feb-18
L2	INV: (Wheeler) and TAC: (map* and cach* and vehicle)		0	11-Feb-18
L1	CASN: (DEEPMAP)		0	8-Feb-18

Non-Patent Literature (NPL) Search Strategy/Results

Ebsco:

09 February 2018:

- Caching map data autonomous vehicle
- Caching map data autonomous vehicle decompress map tiles
- Caching map data self-driving vehicle decompress map tiles load tiles based on location data
- Caching map data vehicle traveling route decompress map tile load tiles based on location data

Google/Google Scholar:

09 February 2018:

- Caching map data autonomous vehicle
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- Caching map data vehicle traveling route decompress map tile load tiles based on location data

IEEE:

09 February 2018:

- Caching map data autonomous vehicle
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