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	Filing Date	October 22, 2021
	First Named Inventor	Talpes, Emil
	Art Unit	2183
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U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	6,882,755	5/19/2005	Silverstein et al.	
	2	7,209,031	4/24/2007	Nakai et al.	
	3	7,747,070	6/29/2010	Puri	
	4	7,904,867	3/8/2011	Burch et al.	
	5	7,974,492	7/5/2011	Nishijima	
	6	8,165,380	4/24/2012	Choi et al.	
	7	8,369,633	2/5/2013	Lu et al.	
	8	8,406,515	3/26/2013	Cheatle et al.	
	9	8,509,478	8/13/2013	Haas et al.	
	10	8,588,470	11/19/2013	Rodriguez et al.	
	11	8,744,174	6/3/2014	Hamada et al.	
	12	8,773,498	7/8/2014	Lindbersgh	
	13	8,912,476	12/16/2014	Fogg et al.	
	14	8,913,830	12/16/2014	Sun et al.	
	15	8,928,753	1/6/2015	Han et al.	
	16	8,972,095	3/3/2015	Furuno et al.	
	17	8,976,269	3/10/2015	Duong	
	18	9,008,422	4/14/2015	Eid et al.	
	19	9,081,385	7/14/2015	Ferguson et al.	
	20	9,275,289	3/1/2016	Li et al.	
	21	9,586,455	3/7/2017	Sugai et al.	
	22	9,672,437	6/6/2017	McCarthy	
	23	9,710,696	7/18/2017	Wang et al.	
	24	9,738,223	8/22/2017	Zhang et al.	
	25	9,754,154	9/5/2017	Craig et al.	
	26	9,767,369	9/19/2017	Furman et al.	
	27	9,965,865	5/8/2018	Agrawal et al.	
	28	10,133,273	11/20/2018	Linke	
	29	10,140,252	11/27/2018	Fowers et al.	

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U.S. PATENT DOCUMENTS					
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	30	10,140,544	11/27/2018	Zhao et al.	
	31	10,146,225	12/4/2018	Ryan,	
	32	10,152,655	12/11/2018	Krishnamurthy et al.	
	33	10,167,800	1/1/2019	Chung et al.	
	34	10,169,680	1/1/2019	Sachdeva et al.	
	35	10,192,016	1/29/2019	Ng et al.	
	36	10,216,189	2/26/2019	Haynes	
	37	10,228,693	3/12/2019	Micks et al.	
	38	10,242,293	3/26/2019	Shim et al.	
	39	10,248,121	4/2/2019	VandenBerg, III	
	40	10,262,218	4/16/2019	Lee et al.	
	41	10,282,623	5/7/2019	Ziyaee et al.	
	42	10,296,828	5/21/2019	Viswanathan	
	43	10,303,961	5/28/2019	Stoffel et al.	
	44	10,310,087	6/4/2019	Laddha et al.	
	45	10,311,312	6/4/2019	Yu et al.	
	46	10,318,848	6/11/2019	Dijkman et al.	
	47	10,325,178	6/18/2019	Tang et al.	
	48	10,331,974	6/25/2019	Zia et al.	
	49	10,338,600	7/2/2019	Yoon et al.	
	50	10,343,607	7/9/2019	Kumon et al.	
	51	10,359,783	7/23/2019	Williams et al.	
	52	10,366,290	7/30/2019	Wang et al.	
	53	10,372,130	8/6/2019	Kaushansky et al.	
	54	10,373,019	8/6/2019	Nariyambut Murali et al.	
	55	10,373,026	8/6/2019	Kim et al.	
	56	10,380,741	8/13/2019	Yedla et al.	
	57	10,394,237	8/27/2019	Xu et al.	
	58	10,395,144	8/27/2019	Zeng et al.	

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U.S. PATENT DOCUMENTS					
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	59	10,402,646	9/3/2019	Klaus	
	60	10,402,986	9/3/2019	Ray et al.	
	61	10,414,395	9/17/2019	Sapp et al.	
	62	10,423,934	9/24/2019	Zanghi et al.	
	63	10,436,615	10/8/2019	Agarwal et al.	
	64	10,452,905	10/22/2019	Segalovitz et al.	
	65	10,460,053	10/29/2019	Olson et al.	
	66	10,467,459	11/5/2019	Chen et al.	
	67	10,468,008	11/5/2019	Beckman et al.	
	68	10,468,062	11/5/2019	Levinson et al.	
	69	10,470,510	11/12/2019	Koh et al.	
	70	10,474,160	11/12/2019	Huang et al.	
	71	10,474,161	11/12/2019	Huang et al.	
	72	10,474,928	11/12/2019	Sivakumar et al.	
	73	10,489,126	11/26/2019	Kumar et al.	
	74	10,489,972	11/26/2019	Atsmon	
	75	10,503,971	12/10/2019	Dang et al.	
	76	10,514,711	12/24/2019	Bar-Nahum et al.	
	77	10,528,824	1/7/2020	Zou	
	78	10,529,078	1/7/2020	Abreu et al.	
	79	10,529,088	1/7/2020	Fine et al.	
	80	10,534,854	1/14/2020	Sharma et al.	
	81	10,535,191	1/14/2020	Sachdeva et al.	
	82	10,542,930	1/28/2020	Sanchez et al.	
	83	10,546,197	1/28/2020	Shrestha et al.	
	84	10,546,217	1/28/2020	Albright et al.	
	85	10,552,682	2/4/2020	Jonsson et al.	
	86	10,559,386	2/11/2020	Neuman	
	87	10,565,475	2/18/2020	Lecue et al.	

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U.S. PATENT DOCUMENTS					
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	88	10,567,674	2/18/2020	Kirsch	
	89	10,568,570	2/25/2020	Sherpa et al.	
	90	10,572,717	2/25/2020	Zhu et al.	
	91	10,574,905	2/25/2020	Srikanth et al.	
	92	10,579,058	3/3/2020	Oh et al.	
	93	10,579,063	3/3/2020	Haynes et al.	
	94	10,579,897	3/3/2020	Redmon et al.	
	95	10,586,280	3/10/2020	McKenna et al.	
	96	10,591,914	3/17/2020	Palanisamy et al.	
	97	10,592,785	3/17/2020	Zhu et al.	
	98	10,599,701	3/24/2020	Liu	
	99	10,599,930	3/24/2020	Lee et al.	
	100	10,599,958	3/24/2020	He et al.	
	101	10,606,990	3/31/2020	Tuli et al.	
	102	10,609,434	3/31/2020	Singhai et al.	
	103	10,614,344	4/7/2020	Anthony et al.	
	104	10,621,513	4/14/2020	Deshpande et al.	
	105	10,627,818	4/21/2020	Sapp et al.	
	106	10,628,432	4/21/2020	Guo et al.	
	107	10,628,686	4/21/2020	Ogale et al.	
	108	10,628,688	4/21/2020	Kim et al.	
	109	10,629,080	4/21/2020	Kazemi et al.	
	110	10,636,161	4/28/2020	Uchigaito	
	111	10,636,169	4/28/2020	Estrada et al.	
	112	10,642,275	5/5/2020	Silva et al.	
	113	10,645,344	5/5/2020	Marman et al.	
	114	10,649,464	5/12/2020	Gray	
	115	10,650,071	5/12/2020	Asgekar et al.	
	116	10,652,565	5/12/2020	Zhang et al.	

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	117	10,656,657	5/19/2020	Djuric et al.	
	118	10,657,391	5/19/2020	Chen et al.	
	119	10,657,418	5/19/2020	Marder et al.	
	120	10,657,934	5/19/2020	Kolen et al.	
	121	10,661,902	5/26/2020	Tavshikar	
	122	10,664,750	5/26/2020	Greene	
	123	10,671,082	6/2/2020	Huang et al.	
	124	10,671,886	6/2/2020	Price et al.	
	125	10,678,244	6/9/2020	Iandola et al.	
	126	10,678,839	6/9/2020	Gordon et al.	
	127	10,678,997	6/9/2020	Ahuja et al.	
	128	10,679,129	6/9/2020	Baker	
	129	10,685,159	6/16/2020	Su et al.	
	130	10,685,188	6/16/2020	Zhang et al.	
	131	10,692,000	6/23/2020	Surazhsky et al.	
	132	10,692,242	6/23/2020	Morrison et al.	
	133	10,693,740	6/23/2020	Coccia et al.	
	134	10,698,868	6/30/2020	Guggilla et al.	
	135	10,699,119	6/30/2020	Lo et al.	
	136	10,699,140	6/30/2020	Kench et al.	
	137	10,699,477	6/30/2020	Levinson et al.	
	138	10,713,502	7/14/2020	Tiziani	
	139	10,719,759	7/21/2020	Kutliroff	
	140	10,725,475	7/28/2020	Yang et al.	
	141	10,726,264	7/28/2020	Sawhney et al.	
	142	10,726,279	7/28/2020	Kim et al.	
	143	10,726,374	7/28/2020	Engineer et al.	
	144	10,732,261	8/4/2020	Wang et al.	
	145	10,733,262	8/4/2020	Miller et al.	

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	146	10,733,482	8/4/2020	Lee et al.	
	147	10,733,638	8/4/2020	Jain et al.	
	148	10,733,755	8/4/2020	Liao et al.	
	149	10,733,876	8/4/2020	Moura et al.	
	150	10,740,563	8/11/2020	Dugan	
	151	10,740,914	8/11/2020	Xiao et al.	
	152	10,748,062	8/18/2020	Rippel et al.	
	153	10,748,247	8/18/2020	Paluri	
	154	10,751,879	8/25/2020	Li et al.	
	155	10,755,112	8/25/2020	Mabuchi	
	156	10,755,575	8/25/2020	Johnston et al.	
	157	10,757,330	8/25/2020	Ashrafi	
	158	10,762,396	9/1/2020	Vallespi et al.	
	159	10,768,628	9/8/2020	Martin et al.	
	160	10,768,629	9/8/2020	Song et al.	
	161	10,769,446	9/8/2020	Chang et al.	
	162	10,769,483	9/8/2020	Nirenberg et al.	
	163	10,769,493	9/8/2020	Yu et al.	
	164	10,769,494	9/8/2020	Xiao et al.	
	165	10,769,525	9/8/2020	Redding et al.	
	166	10,776,626	9/15/2020	Lin et al.	
	167	10,776,673	9/15/2020	Kim et al.	
	168	10,776,939	9/15/2020	Ma et al.	
	169	10,779,760	9/22/2020	Lee et al.	
	170	10,783,381	9/22/2020	Yu et al.	
	171	10,783,454	9/22/2020	Shoaib et al.	
	172	10,789,402	9/29/2020	Vemuri et al.	
	173	10,789,544	9/29/2020	Fiedel et al.	
	174	10,790,919	9/29/2020	Kolen et al.	

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	175	10,796,221	10/6/2020	Zhang et al.	
	176	10,796,355	10/6/2020	Price et al.	
	177	10,796,423	10/6/2020	Goja	
	178	10,798,368	10/6/2020	Briggs et al.	
	179	10,803,325	10/13/2020	Bai et al.	
	180	10,803,328	10/13/2020	Bai et al.	
	181	10,803,743	10/13/2020	Abari et al.	
	182	10,805,629	10/13/2020	Liu et al.	
	183	10,809,730	10/20/2020	Chintakindi	
	184	10,810,445	10/20/2020	Kangaspunta	
	185	10,816,346	10/27/2020	Wheeler et al.	
	186	10,816,992	10/27/2020	Chen,	
	187	10,817,731	10/27/2020	Vallespi et al.	
	188	10,817,732	10/27/2020	Porter et al.	
	189	10,819,923	10/27/2020	McCauley et al.	
	190	10,824,122	11/3/2020	Mummadi et al.	
	191	10,824,862	11/3/2020	Qi et al.	
	192	10,828,790	11/10/2020	Nemallan	
	193	10,832,057	11/10/2020	Chan et al.	
	194	10,832,093	11/10/2020	Taralova et al.	
	195	10,832,414	11/10/2020	Pfeiffer	
	196	10,832,418	11/10/2020	Karasev et al.	
	197	10,833,785	11/10/2020	O'Shea et al.	
	198	10,836,379	11/17/2020	Xiao et al.	
	199	10,838,936	11/17/2020	Cohen	
	200	10,839,230	11/17/2020	Charette et al.	
	201	10,839,578	11/17/2020	Coppersmith et al.	
	202	10,843,628	11/24/2020	Kawamoto et al.	
	203	10,845,820	11/24/2020	Wheeler	

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	204	10,845,943	11/24/2020	Ansari et al.	
	205	10,846,831	11/24/2020	Raduta	
	206	10,846,888	11/24/2020	Kaplanyan et al.	
	207	10,853,670	12/1/2020	Sholingar et al.	
	208	10,853,739	12/1/2020	Truong et al.	
	209	10,860,919	12/8/2020	Kanazawa et al.	
	210	10,860,924	12/8/2020	Burger	
	211	10,867,444	12/15/2020	Russell et al.	
	212	10,871,444	12/22/2020	Al et al.	
	213	10,871,782	12/22/2020	Milstein et al.	
	214	10,872,204	12/22/2020	Zhu et al.	
	215	10,872,254	12/22/2020	Mangla et al.	
	216	10,872,326	12/22/2020	Garner	
	217	10,872,531	12/22/2020	Liu et al.	
	218	10,885,083	1/5/2021	Moeller-Bertram et al.	
	219	10,887,433	1/5/2021	Fu et al.	
	220	10,890,898	1/12/2021	Akella et al.	
	221	10,891,715	1/12/2021	Li	
	222	10,891,735	1/12/2021	Yang et al.	
	223	10,893,070	1/12/2021	Wang et al.	
	224	10,893,107	1/12/2021	Callari et al.	
	225	10,896,763	1/19/2021	Kempanna et al.	
	226	10,901,416	1/26/2021	Khanna et al.	
	227	10,901,508	1/26/2021	Laszlo et al.	
	228	10,902,551	1/26/2021	Mellado et al.	
	229	10,908,068	2/2/2021	Amer et al.	
	230	10,908,606	2/2/2021	Stein et al.	
	231	10,909,368	2/2/2021	Guo et al.	
	232	10,909,453	2/2/2021	Myers et al.	

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	233	10,915,783	2/9/2021	Hallman et al.	
	234	10,917,522	2/9/2021	Segalis et al.	
	235	10,921,817	2/16/2021	Kangaspunta	
	236	10,922,578	2/16/2021	Banerjee et al.	
	237	10,924,661	2/16/2021	Vasconcelos et al.	
	238	10,928,508	2/23/2021	Swaminathan	
	239	10,929,757	2/23/2021	Baker et al.	
	240	10,930,065	2/23/2021	Grant et al.	
	241	10,936,908	3/2/2021	Ho et al.	
	242	10,937,186	3/2/2021	Wang et al.	
	243	10,943,101	3/9/2021	Agarwal et al.	
	244	10,943,132	3/9/2021	Wang et al.	
	245	10,943,355	3/9/2021	Fagg et al.	
	246	2003-0035481	2/20/2003	Hahm	
	247	2005-0162445	7/28/2005	Sheasby et al.	
	248	2006-0072847	4/6/2006	Chor et al.	
	249	2006-0224533	10/5/2006	Thaler	
	250	2006-0280364	12/14/2006	Ma et al.	
	251	2009-0016571	1/15/2009	Tijerina et al.	
	252	2010-0118157	5/13/2010	Kameyama	
	253	2012-0109915	5/2/2013	Krupnik et al.	
	254	2012-0110491	5/3/2012	Cheung	
	255	2012-0134595	5/31/2012	Fonseca et al.	
	256	2015-0104102	4/16/2015	CARREIRA et al.	
	257	2016-0132786	5/12/2016	Balan et al.	
	258	2016-0328856	11/10/2016	Mannino et al.	
	259	2017-0011281	1/12/2017	Dihkman et al.	
	260	2017-0158134	6/8/2017	Shigemura	
	261	2017-0206434	7/20/2017	Nariyambut et al.	

Examiner Signature	Date Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	17/451989
	Filing Date	October 22, 2021
	First Named Inventor	Talpes, Emil
	Art Unit	2183
(Multiple sheets used when necessary)	Examiner	Not yet assigned
SHEET 10 OF 33	Attorney Docket No.	TSLA.479P1C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	262	2018-0012411	1/11/2018	Richey et al.	
	263	2018-0018590	1/18/2018	Szeto et al.	
	264	2018-0039853	2/8/2018	Liu et al.	
	265	2018-0067489	3/8/2018	Oder et al.	
	266	2018-0068459	3/8/2018	Zhang et al.	
	267	2018-0068540	3/8/2018	ROMANENKO et al.	
	268	2018-0074506	3/15/2018	BRANSON	
	269	2018-0121762	5/3/2018	Han et al.	
	270	2018-0150081	5/31/2018	GROSS et al.	
	271	2018-0211403	7/26/2018	Hotson et al.	
	272	2018-0308012	10/25/2018	Mummadi et al.	
	273	2018-0314878	11/1/2018	Lee et al.	
	274	2018-0357511	12/13/2018	MISRA et al.	
	275	2018-0374105	12/27/2018	Azout et al.	
	276	2019-0023277	1/24/2019	Roger et al.	
	277	2019-0025773	1/24/2019	Yang et al.	
	278	2019-0042894	2/7/2019	Anderson	
	279	2019-0042919	2/7/2019	Peysakhovich et al.	
	280	2019-0042944	2/7/2019	Nair et al.	
	281	2019-0042948	2/7/2019	LEE et al.	
	282	2019-0057314	2/21/2019	JULIAN et al.	
	283	2019-0065637	2/28/2019	Bogdoll et al.	
	284	2019-0072978	3/7/2019	Levi	
	285	2019-0079526	3/14/2019	Vallespi et al.	
	286	2019-0080602	3/14/2019	Rice et al.	
	287	2019-0095780	3/28/2019	ZHONG et al.	
	288	2019-0095946	3/28/2019	Azout et al.	
	289	2019-0101914	4/4/2019	Coleman et al.	
	290	2019-0108417	4/11/2019	TALAGALA et al.	

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	First Named Inventor	Talpes, Emil
	Art Unit	2183
(Multiple sheets used when necessary)	Examiner	Not yet assigned
SHEET 11 OF 33	Attorney Docket No.	TSLA.479P1C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	291	2019-0122111	4/25/2019	Min et al.	
	292	2019-0130255	5/2/2019	Yim et al.	
	293	2019-0145765	5/16/2019	Luo et al.	
	294	2019-0146497	5/16/2019	Urtasun et al.	
	295	2019-0147112	5/16/2019	Gordon	
	296	2019-0147250	5/16/2019	Zhang et al.	
	297	2019-0147254	5/16/2019	Bai et al.	
	298	2019-0147255	5/16/2019	Homayounfar et al.	
	299	2019-0147335	5/16/2019	Wang et al.	
	300	2019-0147372	5/16/2019	Luo et al.	
	301	2019-0158784	5/23/2019	AHN et al.	
	302	2019-0180154	6/13/2019	Orlov et al.	
	303	2019-0185010	6/20/2019	Ganguli et al.	
	304	2019-0189251	6/20/2019	Horiuchi et al.	
	305	2019-0197357	6/27/2019	ANDERSON et al.	
	306	2019-0204842	7/4/2019	Jafari et al.	
	307	2019-0205402	7/4/2019	Sernau et al.	
	308	2019-0205667	7/4/2019	Avidan et al.	
	309	2019-0217791	7/18/2019	Bradley et al.	
	310	2019-0227562	7/25/2019	Mohammadiha et al.	
	311	2019-0228037	7/25/2019	Nicol et al.	
	312	2019-0230282	7/25/2019	Sypitkowski et al.	
	313	2019-0235499	8/1/2019	Kazemi et al.	
	314	2019-0236437	8/1/2019	Shin et al.	
	315	2019-0243371	8/8/2019	Nister et al.	
	316	2019-0244138	8/8/2019	Bhowmick et al.	
	317	2019-0250622	8/15/2019	Nister et al.	
	318	2019-0250626	8/15/2019	Ghafarianzadeh et al.	
	319	2019-0250640	8/15/2019	O'Flaherty et al.	

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	First Named Inventor	Talpes, Emil
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SHEET 12 OF 33	Attorney Docket No.	TSLA.479P1C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	320	2019-0258878	8/22/2019	Koivisto et al.	
	321	2019-0266418	8/29/2019	Xu et al.	
	322	2019-0266610	8/29/2019	GHATAGE et al.	
	323	2019-0272446	9/5/2019	Kangaspunta et al.	
	324	2019-0276041	9/12/2019	CHOI et al.	
	325	2019-0279004	9/12/2019	Kwon et al.	
	326	2019-0286652	9/19/2019	Habbecke et al.	
	327	2019-0286972	9/19/2019	El Husseini et al.	
	328	2019-0287028	9/19/2019	St Amant et al.	
	329	2019-0289281	9/19/2019	Badrinarayanan et al.	
	330	2019-0294177	9/26/2019	Kwon et al.	
	331	2019-0294975	9/26/2019	Sachs	
	332	2019-0311290	10/10/2019	Huang et al.	
	333	2019-0318099	10/17/2019	Carvalho et al.	
	334	2019-0325088	10/24/2019	Dubey et al.	
	335	2019-0325266	10/24/2019	Klepper et al.	
	336	2019-0325269	10/24/2019	Bagherinezhad et al.	
	337	2019-0325580	10/24/2019	Lukac et al.	
	338	2019-0325595	10/24/2019	Stein et al.	
	339	2019-0329790	10/31/2019	Nandakumar et al.	
	340	2019-0332875	10/31/2019	Vallespi-Gonzalez et al.	
	341	2019-0333232	10/31/2019	Vallespi-Gonzalez et al.	
	342	2019-0336063	11/7/2019	Dascalu	
	343	2019-0339989	11/7/2019	LIANG et al.	
	344	2019-0340462	11/7/2019	Pao et al.	
	345	2019-0340492	11/7/2019	Burger et al.	
	346	2019-0340499	11/7/2019	Burger et al.	
	347	2019-0347501	11/14/2019	Kim et al.	
	348	2019-0349571	11/14/2019	Herman et al.	

Examiner Signature	Date Considered

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	First Named Inventor	Talpes, Emil
	Art Unit	2183
(Multiple sheets used when necessary)	Examiner	Not yet assigned
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U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	349	2019-0354782	11/21/2019	Kee et al.	
	350	2019-0354786	11/21/2019	Lee et al.	
	351	2019-0354808	11/21/2019	Park et al.	
	352	2019-0354817	11/21/2019	Shlens et al.	
	353	2019-0354850	11/21/2019	Watson et al.	
	354	2019-0370398	12/5/2019	HE et al.	
	355	2019-0370575	12/5/2019	Nandakumar et al.	
	356	2019-0370935	12/5/2019	CHANG et al.	
	357	2019-0373322	12/5/2019	Rojas-Echenique et al.	
	358	2019-0377345	12/12/2019	Bachrach et al.	
	359	2019-0377965	12/12/2019	Totolos et al.	
	360	2019-0378049	12/12/2019	Widmann et al.	
	361	2019-0378051	12/12/2019	Widmann et al.	
	362	2019-0382007	12/19/2019	Casas et al.	
	363	2019-0384303	12/19/2019	Muller et al.	
	364	2019-0384304	12/19/2019	Towal et al.	
	365	2019-0384309	12/19/2019	Silva et al.	
	366	2019-0384994	12/19/2019	Frossard et al.	
	367	2019-0385048	12/19/2019	Cassidy et al.	
	368	2019-0385360	12/19/2019	Yang et al.	
	369	2020-0004259	1/2/2020	Gulino et al.	
	370	2020-0004351	1/2/2020	Marchant et al.	
	371	2020-0012936	1/9/2020	LEE et al.	
	372	2020-0017117	1/16/2020	Milton	
	373	2020-0025931	1/23/2020	Liang et al.	
	374	2020-0026282	1/23/2020	CHOE et al.	
	375	2020-0026283	1/23/2020	BARNES et al.	
	376	2020-0026992	1/23/2020	Zhang et al.	
	377	2020-0027210	1/23/2020	Haemel et al.	

Examiner Signature	Date Considered

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	Filing Date	October 22, 2021
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Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	378	2020-0033858	1/30/2020	Xiao	
	379	2020-0033865	1/30/2020	MELLINGER et al.	
	380	2020-0034665	1/30/2020	GHANTA et al.	
	381	2020-0034710	1/30/2020	Sidhu et al.	
	382	2020-0036948	1/30/2020	Song	
	383	2020-0039520	2/6/2020	Misu et al.	
	384	2020-0051550	2/13/2020	Baker	
	385	2020-0060757	2/27/2020	BEN-HAIM et al.	
	386	2020-0065711	2/27/2020	Clément et al.	
	387	2020-0065879	2/27/2020	Hu et al.	
	388	2020-0069973	3/5/2020	Lou et al.	
	389	2020-0073385	3/5/2020	Jobanputra et al.	
	390	2020-0074230	3/5/2020	Englard et al.	
	391	2020-0086880	3/19/2020	Poeppel et al.	
	392	2020-0089243	3/19/2020	Poeppel et al.	
	393	2020-0089969	3/19/2020	Lakshmi et al.	
	394	2020-0090056	3/19/2020	SINGHAL et al.	
	395	2020-0097841	3/26/2020	Petousis et al.	
	396	2020-0098095	3/26/2020	Borcs et al.	
	397	2020-0103894	4/2/2020	Cella et al.	
	398	2020-0104705	4/2/2020	Bhowmick et al.	
	399	2020-0110416	4/9/2020	Hong et al.	
	400	2020-0117180	4/16/2020	Cella et al.	
	401	2020-0117889	4/16/2020	Laput et al.	
	402	2020-0117916	4/16/2020	LIU	
	403	2020-0117917	4/16/2020	Yoo	
	404	2020-0118035	4/16/2020	ASAWA et al.	
	405	2020-0125844	4/23/2020	She et al.	
	406	2020-0125845	4/23/2020	Hess et al.	

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	Filing Date	October 22, 2021
	First Named Inventor	Talpes, Emil
	Art Unit	2183
(Multiple sheets used when necessary)	Examiner	Not yet assigned
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U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	407	2020-0126129	4/23/2020	Lkhamsuren et al.	
	408	2020-0134427	4/30/2020	OH et al.	
	409	2020-0134461	4/30/2020	Chai et al.	
	410	2020-0134466	4/30/2020	Weintraub et al.	
	411	2020-0134848	4/30/2020	El-Khamy et al.	
	412	2020-0143231	5/7/2020	FUSI et al.	
	413	2020-0143279	5/7/2020	WEST et al.	
	414	2020-0148201	5/14/2020	King et al.	
	415	2020-0149898	5/14/2020	Felip et al.	
	416	2020-0151201	5/14/2020	Chandrasekhar et al.	
	417	2020-0151619	5/14/2020	MOPUR et al.	
	418	2020-0151692	5/14/2020	Gao et al.	
	419	2020-0158822	5/21/2020	Owens et al.	
	420	2020-0158869	5/21/2020	Amirloo et al.	
	421	2020-0159225	5/21/2020	Zeng et al.	
	422	2020-0160064	5/21/2020	Wang et al.	
	423	2020-0160104	5/21/2020	Urtasun et al.	
	424	2020-0160117	5/21/2020	Urtasun et al.	
	425	2020-0160178	5/21/2020	Kar et al.	
	426	2020-0160532	5/21/2020	Urtasun et al.	
	427	2020-0160558	5/21/2020	Urtasun et al.	
	428	2020-0160559	5/21/2020	Urtasun et al.	
	429	2020-0160598	5/21/2020	Manivasagam et al.	
	430	2020-0162489	5/21/2020	Bar-Nahum et al.	
	431	2020-0167438	5/28/2020	Herring	
	432	2020-0167554	5/28/2020	WANG et al.	
	433	2020-0174481	6/4/2020	Van Heukelom et al.	
	434	2020-0175326	6/4/2020	Shen et al.	
	435	2020-0175354	6/4/2020	Volodarskiy et al.	

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	Art Unit	2183
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Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	436	2020-0175371	6/4/2020	Kursun	
	437	2020-0175401	6/4/2020	Shen	
	438	2020-0183482	6/11/2020	Sebot et al.	
	439	2020-0184250	6/11/2020	OKO	
	440	2020-0184333	6/11/2020	OH	
	441	2020-0192389	6/18/2020	ReMine et al.	
	442	2020-0193313	6/18/2020	GHANTA et al.	
	443	2020-0193328	6/18/2020	GUESTRIN et al.	
	444	2020-0202136	6/25/2020	Shrestha et al.	
	445	2020-0202196	6/25/2020	Guo et al.	
	446	2020-0209857	7/2/2020	Djuric et al.	
	447	2020-0209867	7/2/2020	Valois et al.	
	448	2020-0209874	7/2/2020	Chen et al.	
	449	2020-0210717	7/2/2020	Hou et al.	
	450	2020-0210769	7/2/2020	Hou et al.	
	451	2020-0210777	7/2/2020	Valois et al.	
	452	2020-0216064	7/9/2020	du Toit et al.	
	453	2020-0218722	7/9/2020	MAI et al.	
	454	2020-0218979	7/9/2020	Kwon et al.	
	455	2020-0223434	7/16/2020	Campos et al.	
	456	2020-0225758	7/16/2020	TANG et al.	
	457	2020-0226377	7/16/2020	Campos et al.	
	458	2020-0226430	7/16/2020	Ahuja et al.	
	459	2020-0238998	7/30/2020	Dasalukunte et al.	
	460	2020-0242381	7/30/2020	CHAO et al.	
	461	2020-0242408	7/30/2020	Kim et al.	
	462	2020-0242511	7/30/2020	KALE et al.	
	463	2020-0245869	8/6/2020	Sivan et al.	
	464	2020-0249685	8/6/2020	Elluswamy et al.	

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Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	465	2020-0250456	8/6/2020	WANG et al.	
	466	2020-0250515	8/6/2020	Rifkin et al.	
	467	2020-0250874	8/6/2020	Assouline et al.	
	468	2020-0257301	8/13/2020	Weiser et al.	
	469	2020-0257306	8/13/2020	NISENZON	
	470	2020-0258057	8/13/2020	FARAHAT et al.	
	471	2020-0265247	8/20/2020	Musk et al.	
	472	2020-0272160	8/27/2020	Djuric et al.	
	473	2020-0272162	8/27/2020	Hasselgren et al.	
	474	2020-0272859	8/27/2020	Iashyn et al.	
	475	2020-0273231	8/27/2020	Schied et al.	
	476	2020-0279354	9/3/2020	KLAIMAN	
	477	2020-0279364	9/3/2020	Sarkisian et al.	
	478	2020-0279371	9/3/2020	WENZEL et al.	
	479	2020-0285464	9/10/2020	Brebner	
	480	2020-0286256	9/10/2020	Houts et al.	
	481	2020-0293786	9/17/2020	JIA et al.	
	482	2020-0293796	9/17/2020	Sajjadi et al.	
	483	2020-0293828	9/17/2020	Wang et al.	
	484	2020-0293905	9/17/2020	HUANG et al.	
	485	2020-0294162	9/17/2020	Shah,	
	486	2020-0294257	9/17/2020	Yoo et al.	
	487	2020-0294310	9/17/2020	Lee et al.	
	488	2020-0297237	9/24/2020	Tamersoy et al.	
	489	2020-0298891	9/24/2020	Liang et al.	
	490	2020-0301799	9/24/2020	Manivasagam et al.	
	491	2020-0302276	9/24/2020	Yang et al.	
	492	2020-0302291	9/24/2020	HONG	
	493	2020-0302627	9/24/2020	Duggal et al.	

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	Art Unit	2183
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Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	494	2020-0302662	9/24/2020	Homayounfar et al.	
	495	2020-0304441	9/24/2020	Bradley et al.	
	496	2020-0306640	10/1/2020	Kolen et al.	
	497	2020-0307562	10/1/2020	Ghafarianzadeh et al.	
	498	2020-0307563	10/1/2020	Ghafarianzadeh et al.	
	499	2020-0309536	10/1/2020	Omari et al.	
	500	2020-0309923	10/1/2020	Bhaskaran et al.	
	501	2020-0310442	10/1/2020	Halder et al.	
	502	2020-0311601	10/1/2020	Robinson et al.	
	503	2020-0312003	10/1/2020	Borovikov et al.	
	504	2020-0315708	10/8/2020	MOSNIER et al.	
	505	2020-0320132	10/8/2020	Neumann,	
	506	2020-0324073	10/15/2020	Rajan et al.	
	507	2020-0327192	10/15/2020	Hackman et al.	
	508	2020-0327443	10/15/2020	VAN et al.	
	509	2020-0327449	10/15/2020	TIWARI et al.	
	510	2020-0327662	10/15/2020	LIU et al.	
	511	2020-0327667	10/15/2020	Arbel et al.	
	512	2020-0331476	10/22/2020	Chen et al.	
	513	2020-0334416	10/22/2020	Vianu et al.	
	514	2020-0334495	10/22/2020	Al et al.	
	515	2020-0334501	10/22/2020	LIN et al.	
	516	2020-0334551	10/22/2020	Javidi et al.	
	517	2020-0334574	10/22/2020	Ishida	
	518	2020-0337648	10/29/2020	Saripalli et al.	
	519	2020-0341466	10/29/2020	Pham et al.	
	520	2020-0342350	10/29/2020	Madar et al.	
	521	2020-0342548	10/29/2020	Mazed et al.	
	522	2020-0342652	10/29/2020	Rowell et al.	

Examiner Signature	Date Considered

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	17/451989
	Filing Date	October 22, 2021
	First Named Inventor	Talpes, Emil
	Art Unit	2183
(Multiple sheets used when necessary)	Examiner	Not yet assigned
SHEET 19 OF 33	Attorney Docket No.	TSLA.479P1C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	523	2020-0348909	11/5/2020	Das Sarma et al.	
	524	2020-0350063	11/5/2020	Thornton et al.	
	525	2020-0351438	11/5/2020	DEWHURST et al.	
	526	2020-0356107	11/12/2020	Wells	
	527	2020-0356790	11/12/2020	Jaipuria et al.	
	528	2020-0356864	11/12/2020	Neumann	
	529	2020-0356905	11/12/2020	Luk et al.	
	530	2020-0361083	11/19/2020	Mousavian et al.	
	531	2020-0361485	11/19/2020	ZHU et al.	
	532	2020-0364481	11/19/2020	KORNIENKO et al.	
	533	2020-0364508	11/19/2020	Gurel et al.	
	534	2020-0364540	11/19/2020	Elsayed et al.	
	535	2020-0364746	11/19/2020	Longano et al.	
	536	2020-0364953	11/19/2020	Simoudis,	
	537	2020-0372362	11/26/2020	KIM	
	538	2020-0372402	11/26/2020	Kursun et al.	
	539	2020-0380362	12/3/2020	CAO et al.	
	540	2020-0380383	12/3/2020	Kwong et al.	
	541	2020-0393841	12/17/2020	Frisbie et al.	
	542	2020-0394421	12/17/2020	YU et al.	
	543	2020-0394457	12/17/2020	Brady	
	544	2020-0394495	12/17/2020	MOUDGILL et al.	
	545	2020-0394813	12/17/2020	Theverapperuma et al.	
	546	2020-0396394	12/17/2020	Zlokolica et al.	
	547	2020-0398855	12/24/2020	THOMPSON	
	548	2020-0401850	12/24/2020	Bazarsky et al.	
	549	2020-0401886	12/24/2020	Deng et al.	
	550	2020-0402155	12/24/2020	Kurian et al.	
	551	2020-0402226	12/24/2020	PENG	

Examiner Signature	Date Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	17/451989
	Filing Date	October 22, 2021
	First Named Inventor	Talpes, Emil
	Art Unit	2183
(Multiple sheets used when necessary)	Examiner	Not yet assigned
SHEET 20 OF 33	Attorney Docket No.	TSLA.479P1C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	552	2020-0410012	12/31/2020	Moon et al.	
	553	2020-0410224	12/31/2020	Goel	
	554	2020-0410254	12/31/2020	Pham et al.	
	555	2020-0410288	12/31/2020	Capota et al.	
	556	2020-0410751	12/31/2020	Omari et al.	
	557	2021-0004014	1/7/2021	Sivakumar	
	558	2021-0004580	1/7/2021	Sundararaman et al.	
	559	2021-0004611	1/7/2021	Garimella et al.	
	560	2021-0004663	1/7/2021	Park et al.	
	561	2021-0006835	1/7/2021	SLATTERY et al.	
	562	2021-0011908	1/14/2021	HAYES et al.	
	563	2021-0012116	1/14/2021	Urtasun et al.	
	564	2021-0012210	1/14/2021	SIKKA et al.	
	565	2021-0012230	1/14/2021	HAYES et al.	
	566	2021-0012239	1/14/2021	ARZANI et al.	
	567	2021-0015240	1/21/2021	Elfakhri et al.	
	568	2021-0019215	1/21/2021	Neeter	
	569	2021-0026360	1/28/2021	Luo	
	570	2021-0027112	1/28/2021	Brewington et al.	
	571	2021-0027117	1/28/2021	McGAVRAN et al.	
	572	2021-0030276	2/4/2021	Li et al.	
	573	2021-0034921	2/4/2021	Pinkovich et al.	
	574	2021-0042575	2/11/2021	Firner	
	575	2021-0042928	2/11/2021	TAKEDA et al.	
	576	2021-0046954	2/18/2021	Haynes	
	577	2021-0049378	2/18/2021	Gautam et al.	
	578	2021-0049455	2/18/2021	Kursun	
	579	2021-0049456	2/18/2021	Kursun	
	580	2021-0049548	2/18/2021	Grisz et al.	

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	Filing Date	October 22, 2021
	First Named Inventor	Talpes, Emil
	Art Unit	2183
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SHEET 21 OF 33	Attorney Docket No.	TSLA.479P1C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	581	2021-0049700	2/18/2021	NGUYEN et al.	
	582	2021-0056114	2/25/2021	PRICE et al.	
	583	2021-0056306	2/25/2021	Hu et al.	
	584	2021-0056317	2/25/2021	Golov	
	585	2021-0056420	2/25/2021	KONISHI et al.	
	586	2021-0056701	2/25/2021	VRANCEANU et al.	

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	Art Unit	2183
(Multiple sheets used when necessary)	Examiner	Not yet assigned
SHEET 22 OF 33	Attorney Docket No.	TSLA.479P1C1

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	587	AU2019201716A1	10/1/2020	Canon KK		
	588	AU2019261735A1	6/4/2020	Accenture Global Solutions Ltd		
	589	CN102737236A	10/17/2012	Univ Beijing		X-abstract
	590	CN103236037B	5/11/2016	Beihang University		X-abstract
	591	CN103366339A	10/23/2013	Xiamen Longdi Information System Co Ltd		X-abstract
	592	CN103500322B	8/17/2016	Beihang University		X-abstract
	593	CN104835114A	8/12/2015	Univ Shandong		X-abstract
	594	CN105318888B	8/14/2018	Beihang University		X-abstract
	595	CN105550701B	11/6/2018	Fuzhou Huaying Heavy Ind Machinery Co Ltd		X-abstract
	596	CN106156754B	5/31/2019	Zhejiang Univ of Technology		X-abstract
	597	CN106419893A	2/22/2017	Guangzhou Cvte Electronic Tech		X-abstract
	598	CN106504253A	3/15/2017	Guozhengtong Tech Co Ltd.		X-abstract
	599	CN106558058B	10/9/2020	Beijing Tusimple Future Tech Co Ltd		X-abstract
	600	CN106598226B	5/21/2019	Univ Tianjin		X-abstract
	601	CN106650922B	5/3/2019	Univ Tsinghua		X-abstract
	602	CN106779060B	3/8/2019	Wuhan Meitong Tech Co Ltd		X-abstract
	603	CN107031600A	8/11/2017	Dongfeng Motor Corp		X-abstract
	604	CN107103113B	1/11/2019	Inst Computing Tech Cas		X-abstract
	605	CN107133943B	7/6/2018	Transmission Operation Maintenance Company Guizhou Power Grid Co. Ltd		X-abstract
	606	CN107169421A	9/15/2017	Univ South China Tech		X-abstract
	607	CN107169560B	10/16/2020	Univ Tsinghua		X-abstract

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	First Named Inventor	Talpes, Emil
	Art Unit	2183
(Multiple sheets used when necessary)	Examiner	Not yet assigned
SHEET 23 OF 33	Attorney Docket No.	TSLA.479P1C1

FOREIGN PATENT DOCUMENTS

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	608	CN107368926B	7/10/2018	Univ Central South		X-abstract
	609	CN107451659B	4/10/2020	Univ Tsinghua		X-abstract
	610	CN107507134A	12/22/2017	Univ Dalian Tech		X-abstract
	611	CN107622258B	10/30/2020	Univ Central South		X-abstract
	612	CN107729998B	6/5/2020	Inst Computing Tech Cas		X-abstract
	613	CN107742311B	2/18/2020	Beijing Yida Tuling Tech Co Ltd		X-abstract
	614	CN107885214A	4/6/2018	Jinan Inspir Hi Tech Invest & Dev Co Ltd		X-abstract
	615	CN108111873B	4/14/2020	Tainan Power Supply Co of State Grid Shandong Elec Power Co		X-abstract
	616	CN108122234A	6/5/2018	Beijing Sensetime Science Tech Ltd		X-abstract
	617	CN108229526B	9/29/2020	Beijing Sensetime Science Tech Ltd		X-abstract
	618	CN108491889A	9/4/2018	Shenzhen Echiev Autonomous Driving Tech Co Ltd		X-abstract
	619	CN108549934B	6/19/2020	Fuzhou Rockchip Electronics Co		X-abstract
	620	CN108647591A	10/12/2018	Univ Changsha		X-abstract
	621	CN108710865A	10/26/2018	Univ Electronic Sci & Tech China		X-abstract
	622	CN108764185A	11/6/2018	Boe Technology Group Co Ltd		X-abstract
	623	CN108845574A	11/20/2018	Beijing Ares Robot Tech Co Ltd		X-abstract
	624	CN108898177A	11/27/2018	Guongdong Power Grid Co		X-abstract
	625	CN109086867A	12/25/2018	Wuhan Meitong Tech Co Ltd.		X-abstract
	626	CN109215067A	1/15/2019	Baidu USA LLC		X-abstract

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	Filing Date	October 22, 2021
	First Named Inventor	Talpes, Emil
	Art Unit	2183
(Multiple sheets used when necessary)	Examiner	Not yet assigned
SHEET 24 OF 33	Attorney Docket No.	TSLA.479P1C1

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	627	CN109359731A	2/19/2019	JeeJio Beihing Tech Co Ltd		X-abstract
	628	CN109389207A	2/26/2019	Univ Shichuan Sci & Eng		X-abstract
	629	CN109389552A	2/26/2019	Univ Sun Yat Sen		X-abstract
	630	CN109579856A	4/5/2019	Baidu Online Network Tech Beijing Co Ltd		X-abstract
	631	CN109615073A	4/12/2019	Zhengzhou Yunhai Information Tech Co Ltd		X-abstract
	632	CN109791626A	5/21/2019	Univ Tsinghua		X-abstract
	633	CN109901595A	6/18/2019	Univ Shandong		X-abstract
	634	CN109902732A	6/18/2019	Harbin Inst Technolgoy Shenzhen		X-abstract
	635	CN109934163A	6/25/2019	Univ Beihang		X-abstract
	636	CN109948428A	6/28/2019	Univ Shanghai Science & Tech		X-abstract
	637	CN109949257A	6/28/2019	Univ Xidian		X-abstract
	638	CN109951710A	6/28/2019	Univ Civil Aviation China		X-abstract
	639	CN109975308A	7/5/2019	Ivicoo Xiamen Information Tech Co Ltd		X-abstract
	640	CN109978132A	7/5/2019	Shenzhen Inst of Adv Tech		X-abstract
	641	CN109978161A	7/5/2019	Univ Jilin		X-abstract
	642	CN110060202A	7/26/2019	Hubei Ecarx Tech Co Ltd		X-abstract
	643	CN110069071A	7/30/2019	Shenzhen Boshi Kongjian Tech Co Ltd		X-abstract
	644	CN110084086A	8/2/2019	Anjui Jianghuai Automobile Group Corp Ltd		X-abstract
	645	CN110096937A	8/2/2019	Navinfo Co Ltd		X-abstract
	646	CN110111340A	8/9/2019	Univ Nankai		X-abstract
	647	CN110135485A	8/16/2019	Univ Zhejiang		X-abstract
	648	CN110197270B	9/3/2019	Shanghai Cambricon Inf Tech Co Ltd		X-abstract

Examiner Signature	Date Considered

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	Application No.	17/451989
	Filing Date	October 22, 2021
	First Named Inventor	Talpes, Emil
	Art Unit	2183
(Multiple sheets used when necessary)	Examiner	Not yet assigned
SHEET 25 OF 33	Attorney Docket No.	TSLA.479P1C1

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	649	CN110225341B	8/28/2020	Univ Science & Technology China		X-abstract
	650	CN110310264A	10/8/2019	Univ Beijing Posts & Telecomm		X-abstract
	651	CN110321965A	10/11/2019	Tencent Tech Shenzhen Co Ltd		X-abstract
	652	CN110334801A	10/15/2019	Suzhou Inspur Intelligent Tech Co Ltd		X-abstract
	653	CN110399875A	11/1/2019	Shandong Insupr Artificial Intelligence Res Inst Co Ltd		X-abstract
	654	CN110414362A	11/5/2019	Anhui Jiyuan Software Co Ltd		X-abstract
	655	CN110426051A	11/8/2019	Wuhan Zhonghaiting Data Tech Co Ltd		X-abstract
	656	CN110473173A	11/19/2019	Seizet Tech Shenzhen Co Ltd		X-abstract
	657	CN110516665A	11/29/2019	Shanghai Eye Control Tech Co Ltd		X-abstract
	658	CN110543837A	12/6/2019	Univ Beihang		X-abstract
	659	CN110569899A	12/13/2019	Jialing River Tingzikou Water Resources		X-abstract
	660	CN110599537A	12/20/2010	Univ China Geosciencew Wuhan		X-abstract
	661	CN110599864A	12/20/2019	Suzhou Zhixing Zhongwei Intelligent Tech Co Ltd		X-abstract
	662	CN110619282A	12/27/2019	Hainan Trunyun Space Information Tech Co Ltd		X-abstract
	663	CN110619283A	12/27/2019	Hainan Trunyun Space Information Tech Co Ltd		X-abstract
	664	CN110619330A	12/27/2019	Shanghai Eye Control Tech Co Ltd		X-abstract
	665	CN110659628A	1/7/2020	Shandong Insupr Artificial Intelligence Res Inst Co Ltd		X-abstract

Examiner Signature	Date Considered

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	Filing Date	October 22, 2021
	First Named Inventor	Talpes, Emil
	Art Unit	2183
(Multiple sheets used when necessary)	Examiner	Not yet assigned
SHEET 26 OF 33	Attorney Docket No.	TSLA.479P1C1

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	666	CN110688992A	1/14/2020	Allride AI Tech Co Ltd		X-abstract
	667	CN110751280A	2/4/2020	Univ Huazhong Science Tech		X-abstract
	668	CN110826566A	2/21/2020	Beijing Inst Environmental Features		X-abstract
	669	CN110956185A	4/3/2020	Dut Artificial Intelligence Inst Dalian		X-abstract
	670	CN110966991A	4/7/2020	Nat Univ Defense Technology		X-abstract
	671	CN111027549A	4/17/2020	Beijing Inst Fashion Tech		X-abstract
	672	CN111027575A	4/17/2020	Univ Guangxi Normal		X-abstract
	673	CN111047225A	4/21/2020	DBG Tech Co Ltd		X-abstract
	674	CN111062973B	1/1/2021	Univ Xidian		X-abstract
	675	CN111126453A	5/8/2020	Univ Chongqing Posts & Telecom		X-abstract
	676	CN111158355A	5/15/2020	Fuhuake Prec Industry (Shenzhen) Co Ltd		X-abstract
	677	CN111275080B	1/8/2021	Tencent Tech Shenzhen Co Ltd		X-abstract
	678	CN111275129A	6/12/2020	Ping An Tech Shenzhen Co Ltd		X-abstract
	679	CN111275618A	6/12/2020	Univ Hangzhou Dianzi		X-abstract
	680	CN111307162B	8/25/2020	Aoteku Intelligent Tech Nanjing Co		X-abstract
	681	CN111326023A	6/23/2020	SF Tech Co Ltd		X-abstract
	682	CN111428943A	7/17/2020	Freetech Intelligent Systems Co Ltd		X-abstract
	683	CN111444821A	7/24/2020	Univ Northwestern Polytechnical		X-abstract
	684	CN111445420A	7/24/2020	Beijing AIChip Tech Co Ltd		X-abstract
	685	CN111461052A	7/28/2020	Univ Anhui		X-abstract
	686	CN111461053A	7/28/2020	Univ Anhui		X-abstract

Examiner Signature	Date Considered

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	Filing Date	October 22, 2021
	First Named Inventor	Talpes, Emil
	Art Unit	2183
(Multiple sheets used when necessary)	Examiner	Not yet assigned
SHEET 27 OF 33	Attorney Docket No.	TSLA.479P1C1

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	687	CN111461110A	7/28/2020	Univ South China Tech		X-abstract
	688	CN111488770A	8/4/2020	Momenta Suzhou Tech Co Ltd		X-abstract
	689	CN111539514A	8/14/2020	Beijing Baidu Netcom Sci & Tec		X-abstract
	690	CN111565318A	8/21/2020	Chongqing Inst Green & Intelligent Tech Cas		X-abstract
	691	CN111582216A	8/25/2020	Univ Anhui Normal		X-abstract
	692	CN111598095A	8/28/2020	Univ Zhejiang Technology		X-abstract
	693	CN111693972A	9/22/2020	Univ Southeast		X-abstract
	694	CN111767801A	10/13/2020	Univ China Geosciences Wuhan		X-abstract
	695	CN111768002A	10/13/2020	Univ Nankai		X-abstract
	696	CN111783545A	10/16/2020	Wuyang Coal Mine of Shyanxi Luan Env Energy		X-abstract
	697	CN111783971A	10/16/2020	Shanghai Starfive Tech Co Ltd		X-abstract
	698	CN111797657A	10/20/2020	Oppo Quangdong Mobile Telecom Co Ltd		X-abstract
	699	CN111814623A	10/23/2020	Univ Zhejiang Technology		X-abstract
	700	CN111814902A	10/23/2020	CSG Digital Power Grid Res Inst Co Ltd		X-abstract
	701	CN111860499A	10/30/2020	Univ Electronic Sci & Tech China		X-abstract
	702	CN111881856A	11/3/2020	Alipay Hangzhou Tech Co Ltd		X-abstract
	703	CN111882579A	11/3/2020	Aimiplus Co Ltd		X-abstract
	704	CN111897639A	11/6/2020	Ping An Tech Shenzhen Co Ltd		X-abstract
	705	CN111898507A	11/6/2020	Univ Wuhan		X-abstract

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	706	CN111898523A	11/6/2020	Univ Electronic Sci & Tech China		X-abstract
	707	CN111899227A	11/6/2020	Univ Beijing Jiaotong		X-abstract
	708	CN111899245B	3/9/2021	Beijing Infervision Tech Co Ltd		X-abstract
	709	CN112101175A	12/18/2020	Shenyang Dixin Artifical Intelligence Industrial Res Institute Co Ltd		X-abstract
	710	CN112101562A	12/18/2020	4Paradigm Beijing Tech Co Ltd		X-abstract
	711	CN112115953A	12/22/2020	Univ Nanjing Tech		X-abstract
	712	CN112183739A	1/5/2021	Univ Science & Technology China		X-abstract
	713	CN112232497A	1/15/2021	Suzhou Inspur Intelligent Tech Co Ltd		X-abstract
	714	CN112288658A	1/29/2021	Univ Hangzhou Normal		X-abstract
	715	CN112308095A	2/2/2021	SF Tech Co Ltd		X-abstract
	716	CN112308799A	2/2/2021	Univ Shandong Jiaotong		X-abstract
	717	CN112313663A	2/2/2021	Zoox Inc		X-abstract
	718	CN112329552A	2/5/2021	Aiways Automotive Shanghai Co Ltd		X-abstract
	719	CN112348783A	2/9/2021	Jijiantong Sanya International Tech Co Ltd		X-abstract
	720	DE102017116017A1	1/27/2019	Valeo Schalter & Sensoren GmbH		X-abstract
	721	DE102018130821A1	6/4/2020	Valeo Schalter & Sensoren GmbH		X-abstract
	722	DE102019008316A1	8/13/2020	Daimler AG		X-abstract
	723	DE202017102235U1	5/12/2017	Bosch GmbH Robert		X-abstract
	724	DE202017102238U1	5/12/2017	Bosch GmbH Robert		X-abstract
	725	EP1215626B1	9/3/2008	Eastman Kodak Company		
	726	EP2228666B1	9/26/2012	Honeywell International Inc.		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		
	Application No.	17/451989
	Filing Date	October 22, 2021
	First Named Inventor	Talpes, Emil
	Art Unit	2183
(Multiple sheets used when necessary)	Examiner	Not yet assigned
SHEET 29 OF 33	Attorney Docket No.	TSLA.479P1C1

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	727	EP2396750B1	6/17/2020	Alibaba Group Holding Limited		
	728	EP2420408B1	5/8/2013	Gentex Corporation		
	729	EP2618559B1	8/23/2017	Nokia Technologies Oy		
	730	EP2723069A1	4/23/2014	Aisin Seiki KK		
	731	EP2741253A1	6/11/2014	Megachips Corporation		
	732	EP2863633B1	2/20/2019	Denso Corporation		
	733	EP3113080B1	5/1/2019	Ricoh Company Ltd.		
	734	EP3115772A1	1/11/2017	Tsinghua University		
	735	EP3285485A1	2/21/2018	Samsung Electronics Co. Ltd.		
	736	EP3501897B1	12/30/2020	MEKRA Lang GmbH & Co. KG		X-abstract
	737	EP3525132A1	8/14/2019	KPIT Technologies Ltd.		
	738	EP3531689A1	8/28/2019	Huawei Technologies Co Ltd		
	739	EP3537340A1	9/11/2019	Ricoh Company Ltd.		
	740	EP3543917A1	9/25/2019	SRI International Inc.		
	741	EP3608840A1	2/12/2020	Accenture Global Solutions Limited		
	742	EP3657387A1	5/27/2020	Samsung Electronics Co. Ltd.		
	743	EP3664020A1	6/10/2020	Equos Research Co. Ltd.		
	744	EP3690712A1	8/5/2020	StradVision Inc.		
	745	EP3690730A2	11/4/2020	StradVision Inc.		
	746	EP3690742A1	8/5/2020	StradVision Inc.		
	747	EP3722992A1	10/14/2020	Teraki GmbH		
	748	EP3739486A1	11/18/2020	CrowdStrike Inc.		
	749	EP3751455A2	12/16/2020	TuSimple Inc.		
	750	EP3783527A1	2/24/2021	Tencent Tech Shenzhen Co Ltd		

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	751	GB2402572B	8/3/2005	Lear Corp		
	752	GB2517270B	6/3/2020	Holition Ltd		
	753	GB2548087A	9/13/2017	Holition Ltd		
	754	GB2577485A	4/1/2020	Jaguar Land Rover Limited		
	755	JP2015004922A	1/8/2015	Nikon Corp		X-abstract
	756	JP2019101535A	6/24/2019	Konica Minolta Inc		X-abstract
	757	JP2020101927A	7/2/2020	Casio Computer Co Ltd		X-abstract
	758	JP2020173744A	10/22/2020	Hitachi Ltd		X-abstract
	759	JP2578262Y2	8/6/1998	Elna Co Ltd		
	760	JP3941252B2	7/4/2007	Mazda Motor		X-abstract
	761	JP4282583B2	6/24/2009	Sharp Corp		X-abstract
	762	JP4300098B2	7/22/2009	Nippon Telegraph & Telephone		X-abstract
	763	JP5863536B2	2/16/2016	Fuji Heavy Ind Ltd		X-abstract
	764	JP6044134B2	12/14/2016	Casio Computer Co Ltd		X-abstract
	765	JP6525707B2	6/5/2019	Canon KK		X-abstract
	766	KR100326702B1	2/19/2002	Hyundai Motor Company		X-abstract
	767	KR101082878B1	11/11/2011	Industry-Academic Cooperation Foundation		X-abstract
	768	KR101738422B1	5/23/2017	Korean Advanced Inst Sci & Tech		X-abstract
	769	KR101969864B1	4/18/2019	Univ Dongguk Ind Acad Coop		X-abstract
	770	KR101996167B1	7/3/2019	Univ Dongguk Ind Acad Coop		X-abstract
	771	KR1020200085490A	7/15/2020	SK Planet Co Ltd		X-abstract
	772	KR1020200142266A	12/22/2020	Returnable Inc		X-abstract
	773	KR102022388B1	8/10/2019	Cammsys Corp		X-abstract
	774	KR102043143B1	11/11/2019	Univ Hoseo Acad Coop Found		X-abstract

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	775	KR102095335B1	3/31/2020	SK Telecom Co Ltd		X-abstract
	776	KR102097120B1	4/9/2020	Agilesoda Inc		X-abstract
	777	KR102189262B1	12/11/2020	Global Bridge Co Ltd		X-abstract
	778	TW200630819A	9/1/2006	Northern Taiwan Inst of Science and Technology		X-abstract
	779	TWI294089B	3/1/2008	TSINT		X-abstract
	780	TWI306207B	2/11/2009	Northern Taiwan Inst of Science and Technology		X-abstract
	781	WO 02/052835	7/4/2002	Hewlett_Packard Co		
	782	WO 16/032398	3/3/2016	Singapore University of Technology and Design		
	783	WO 16/048108	3/31/2016	Samsung Electronics Co. Ltd.		
	784	WO 16/207875	12/29/2016	Photomyne Ltd.		
	785	WO 17/158622	9/21/2017	Indian Institute Of Technology Madras		
	786	WO 19/005547	1/3/2019	Panasonic Intellectual Property Corporation Of America		
	787	WO 19/067695	4/4/2019	Airspace Systems Inc.		
	788	WO 19/089339	5/9/2019	The Trustees Of Princeton University		
	789	WO 19/092456	5/16/2019	Cambridge Bio-Augmentation Systems Limited		
	790	WO 19/099622	5/23/2019	Uber Technologies Inc.		
	791	WO 19/122952	6/27/2019	Plusai Corp		
	792	WO 19/125191	6/27/2019	Motorola Solutions Inc,		
	793	WO 19/126755	6/27/2019	Fugro NV		
	794	WO 19/144575	8/1/2019	Sun Yat-Sen University		
	795	WO 19/182782	9/26/2019	Zoox Inc.		
	796	WO 19/191578	10/3/2019	Wave Computing Inc.		

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	797	WO 19/216938	11/14/2019	Google LLC		
	798	WO 19/220436	11/21/2019	Brainvu Ltd		
	799	WO 20/006154	1/2/2020	Katz		
	800	WO 20/012756	1/16/2020	Maxell Ltd.		X-abstract
	801	WO 20/025696	2/6/2020	Deutsches Krebsforschungszentrum Stiftung Des Öffentlichen Rechts		
	802	WO 20/034663	2/20/2020	The Hong Kong Polytechnic University		
	803	WO 20/056157	3/19/2020	Electra Vehicles Inc.		
	804	WO 20/076356	4/16/2020	Google LLC		
	805	WO 20/097221	5/14/2020	Simoudis Evangelos		
	806	WO 20/101246	5/22/2020	Samsung Electronics Co. Ltd.		
	807	WO 20/120050	6/18/2020	ASML Netherlands BV		
	808	WO 20/121973	6/18/2020	Koito Manufacturing Co. Ltd.		
	809	WO 20/131140	6/25/2020	Google LLC		
	810	WO 20/139181	7/2/2020	Telefonaktiebolaget Lm Ericsson		
	811	WO 20/139355	7/2/2020	Didi Research America LLC		
	812	WO 20/139357	7/2/2020	Didi Research America LLC		
	813	WO 20/142193	7/9/2020	Microsoft Technology Licensing Llc		
	814	WO 20/146445	7/16/2020	Du Toit		
	815	WO 20/151329	7/30/2020	Ping An Technology (Shenzhen) Co. Ltd		
	816	WO 20/157761	8/6/2020	Buxboim		
	817	WO 20/163455	8/13/2020	Urugus		

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	818	WO 20/167667	8/20/2020	Flagship Pioneering Innovations VI LLC		
	819	WO 20/174262	9/3/2020	Telefonaktiebolaget Lm Ericsson (Publ)		
	820	WO 20/177583	9/10/2020	Huawei Technologies Co. Ltd.		X-abstract
	821	WO 20/185233	9/17/2020	Hewlett-Packard Development Company L.P.		
	822	WO 20/185234	9/17/2020	Hewlett-Packard Development Company L.P.		
	823	WO 20/195658	10/1/2020	Sony Semiconductor Solutions Corporation		
	824	WO 20/198189	10/1/2020	Zoox Inc.		
	825	WO 20/198779	10/8/2020	Presagen Pty Ltd		
	826	WO 20/205597	10/8/2020	Intel Corporation		
	827	WO 20/221200	11/5/2020	Huawei Technologies Co. Ltd.		X-abstract
	828	WO 20/240284	12/3/2020	Mobileye Vision Technologies Ltd.		
	829	WO 20/260020	12/30/2020	Robert Bosch GmbH		
	830	WO 20/264010	12/30/2020	Zoox Inc.		

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