INFORMATION DISCLOSURE STATEMENT BY APPLICANT		
	Application No.	15/920165
	Filing Date	March 13, 2018
	First Named Inventor	Sarma, Debjit Das
	Art Unit	2183
(Multiple sheets used when necessary)	Examiner	Alli, Kasim A.
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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	Lindbergh	
	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.	

Examiner Signature	Date Considered

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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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	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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	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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	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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	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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	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.	

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	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.	

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	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	Celia 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	Celia 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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	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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	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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	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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	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.	
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	507	2020-0327192	10/15/2020	Hackman et al.	
	508	2020-0327443	10/15/2020	VAN et al.	
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	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.	

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	Filing Date	March 13, 2018
	First Named Inventor	Sarma, Debjit Das
	Art Unit	2183
(Multiple sheets used when necessary)	Examiner	Alli, Kasim A.
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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
	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.	
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	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.	
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	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.	
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	567	2021-0015240	1/21/2021	Elfakhri et al.	
	568	2021-0019215	1/21/2021	Neeter	
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	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	
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	578	2021-0049455	2/18/2021	Kursun	
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	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.	
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	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
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	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
	608	CN107368926B	7/10/2018	Univ Central South		X-abstract
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	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

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	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
	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
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	632	CN109791626A	5/21/2019	Univ Tsinghua		X-abstract
	633	CN109901595A	6/18/2019	Univ Shandong		X-abstract
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	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
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	641	CN109978161A	7/5/2019	Univ Jilin		X-abstract

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	Art Unit	2183
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FOREIGN PATENT DOCUMENTS

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	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
	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
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	654	CN110414362A	11/5/2019	Anhui Jiyuan Software Co Ltd		X-abstract
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	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

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	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
	666	CN110688992A	1/14/2020	Allride AI Tech Co Ltd		X-abstract
	667	CN110751280A	2/4/2020	Univ Huazhong Science Tech		X-abstract
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	669	CN110956185A	4/3/2020	Dut Artificial Intelligence Inst Dalian		X-abstract
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	671	CN111027549A	4/17/2020	Beijing Inst Fashion Tech		X-abstract
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	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

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	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
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	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
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	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
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	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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	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	Always Automotive Shanghai Co Ltd		X-abstract
	719	CN112348783A	2/9/2021	Jijiantong Sanya International Tech Co Ltd		X-abstract

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	Art Unit	2183
(Multiple sheets used when necessary)	Examiner	Alli, Kasim A.
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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]
	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.		
	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		

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	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		
	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

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	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
	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.		

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	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.		
	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	ASMI Netherlands BV		
	808	WO 20/121973	6/18/2020	Koito Manufacturing Co. Ltd.		
	809	WO 20/131140	6/25/2020	Google LLC		

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	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		
	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.		
	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.		
	828	WO 20/240284	12/3/2020	Mobileye Vision Technologies Ltd.		

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	829	WO 20/260020	12/30/2020	Robert Bosch Gmbh		
	830	WO 20/264010	12/30/2020	Zoox Inc.		

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