

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L26	0	(16/042901).APP.	USPAT; USOCR	OR	ON	2020/03/01 16:19
S12	430	"348".clas. and rocket	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2015/09/02 13:49
S13	50	"348".clas. and rocket and guidance	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2015/09/02 13:49
S101	2	"US 20160044257"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2016/04/04 10:40
S116	287	chriss near3 yoder	US-PGPUB; USPAT	OR	ON	2016/05/23 13:56
S121	2	"US 20160004923"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2016/06/08 14:32
S122	1	("20160059962").PN.	US-PGPUB; USPAT	OR	OFF	2016/06/08 15:26
S123	1	("20140263823").PN.	US-PGPUB; USPAT	OR	OFF	2016/06/08 15:28
S124	1	("20160018822").PN.	US-PGPUB; USPAT	OR	OFF	2016/06/08 15:32
S125	1	("7898130").PN.	US-PGPUB; USPAT	OR	OFF	2016/06/08 15:36
S126	1	("8378881").PN.	US-PGPUB; USPAT	OR	OFF	2016/06/08 15:41
S127	1	("8931730").PN.	US-PGPUB; USPAT	OR	OFF	2016/06/08 15:52
S128	2	((("9164506") or ("9280038"))).PN.	US-PGPUB; USPAT	OR	OFF	2016/06/08 15:58
S129	16	("20080054158" "20090157233" "20090187299" "20100004802" "20100250022" "20110141287" "20110304737" "20120143808" "20120154579" "20120200703" "20120287274" "20120307042" "20130085643" "20130176423" "20140049643" "7970507").PN. OR ("9164506").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/06/08 16:03
S130	2	"US 20160004923"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2016/09/06 09:58

S132	1	("20140307117").PN.	US-PGPUB; USPAT	OR	OFF	2016/09/06 10:22
S138	1907	B60W30/08.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/09/06 10:29
S139	3366	B60W30/09.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/09/06 10:29
S140	1133	B60W30/14.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/09/06 10:29
S141	5637	B60W30/16.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/09/06 10:29
S142	614	B60W30/17.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/09/06 10:29
S143	142	("20050096539" "20070022068" "20080174700" "20100086171" "20100299296" "20120011090" "20120083982" "20130073492" "20130325774" "20140032458" "20150127154" "6458157" "6581046" "7653255" "20110063409" "6678590" "20050015351" "20100036457" "20110206122" "20120308076" "20130050574" "20130073499" "20140064609" "20140122399" "5355435" "6009418" "6014653" "6545708" "6546291" "7737933" "8000967" "8200593" "20110170792" "20110242341" "20030218919" "20050283450" "20070176643" "20070208678" "20080199072" "20110016071" "20110119214" "20110137843" "20130073498" "20130297539" "20130325766" "20130325768" "5138447" "5638359" "6035389" "8015130" "8315305" "20120236114" "20120330447"	US-PGPUB; USPAT	OR	ON	2016/09/06 10:30

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S144	49	((Filip) near2 (Piekniewski)).INV.	US-PGPUB; USPAT	OR	ON	2016/09/06 10:31
S145	24	((Vadim) near2 (Polonichko)).INV.	US-PGPUB; USPAT	OR	ON	2016/09/06 10:31
S146	118	((Eugene) near2 (Izhikevich)).INV.	US-PGPUB; USPAT	OR	ON	2016/09/06 10:31
S147	1	("5831669").PN.	US-PGPUB; USPAT	OR	OFF	2016/09/06 12:19
S148	0	subaru.as. and driver near3 assist and (camera imaging (image adj (sensor captur\$4)))	US-PGPUB; USPAT	OR	ON	2016/09/06 12:51
S149	4	subaru.as.	US-PGPUB; USPAT	OR	ON	2016/09/06 12:51
S150	41	subaru.in.	US-PGPUB; USPAT	OR	ON	2016/09/06 12:51
S151	1	subaru and driver near3 assist and (camera imaging (image adj (sensor captur\$4)))	US-PGPUB; USPAT	OR	ON	2016/09/06 12:52

S152	25	("20040167717" "20110190972" "20110251768" "20120166032" "20120226392" "20130226402" "20130282271" "20130308828" "20140005907" "4970653" "5684697" "6370471" "6744380" "7231288" "7257478" "7260465" "7831368" "8170739" "8355539" "8504233" "8543277" "8593272" "8676466" "8706394" "8788134").PN. OR ("9150220").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/09/06 12:55
S153	133	S144 S145 S146	US-PGPUB; USPAT	OR	ON	2016/09/06 12:58
S154	2562	S138 S139 S140 S141 S142	US-PGPUB; USPAT	OR	ON	2016/09/06 12:58
S155	83	S153 and contrast	US-PGPUB; USPAT	OR	ON	2016/09/06 12:58
S156	34	S153 and contrast and actuator	US-PGPUB; USPAT	OR	ON	2016/09/06 12:59
S157	8	("20080152236" "20080267458" "20090028384" "20090312985" "20120330447" "20140119654" "20140201126" "20150304634").PN.	US-PGPUB; USPAT	OR	ON	2016/09/06 13:02
S158	0	ultrasonic with lidar with IR with contrast	US-PGPUB; USPAT	OR	ON	2016/09/06 13:06
S159	2	ultrasonic with lidar with (contrast sharpness)	US-PGPUB; USPAT	OR	ON	2016/09/06 13:06
S160	0	("2016/0004923").URPN.	USPAT	OR	ON	2016/09/06 13:09
S161	187	("20020038294" "20020158599" "20020169733" "20020198854" "20030023347" "20030050903" "20030144764" "20040036437" "20040051493" "20040136439" "20040158358" "20040193670" "20050004710" "20050015351" "20050036649" "20050049749" "20050065651" "20050069207" "20050283450" "20060094001" "20060161218" "20060181236" "20060207419" "20070022068" "20070176643" "20070208678" "20070260356" "20080040040" "20080097644" "20080100482" "20080112596" "20080133052" "20080154428" "20080319929" "20090037033" "20090043722" "20090234501" "20090287624" "20100036457" "20100081958" "20100086171" "20100166320" "20100169098" "20100222924" "20100225824" "20100286824" "20100292835" "20100299101" "20100312730" "20110016071" "20110026770" "20110035052" "20110060461" "20110067479" "20110119214" "20110119215" "20110144802" "20110158476" "20110160906" "20110196199" "20110231016" "20110296944" "20120011090" "20120045068"	US-PGPUB; USPAT; USOCR	OR	ON	2016/09/06 13:14

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		"20080174700" "20080199072" "20080237446" "20090043722" "20090202114" "20090205764" "20090287624" "20090304231" "20100036457" "20100081958" "20100086171" "20100100482" "20100166320" "20100235310" "20100299296" "20110016071" "20110119214" "20110119215" "20110134242" "20110137843" "20110160741" "20110206122" "20120011090" "20120083982" "20120084240" "20120109866" "20120303091" "20120308076" "20120308136" "20130050574" "20130051680" "20130073484" "20130073491" "20130073492" "20130073495" "20130073496" "20130073498" "20130073499" "20130073500" "20130151450" "20130176430" "20130218821" "20130251278" "20130297539" "20130297541" "20130297542" "20130325766" "20130325768" "20130325773" "20130325774" "20130325775" "20130325777" "20140012788" "20140016858" "20140032458" "20140032459" "20140052679" "20140064609" "20140122397" "20140122398" "20140122399" "20140156574" "20150077639" "20150127154" "20150127155" "20150181168" "5063603" "5138447" "5216752" "5272535" "5355435" "5638359" "5673367" "5875108" "6009418" "6014653" "6035389" "6418424" "6458157" "6509854" "6545705" "6545708" "6546291" "6581046" "6625317" "7580907" "7653255" "7737933" "7849030" "8000967" "8015130" "8103602" "8160354" "8200593" "8311965" "8315305" "8390707" "8416847" "8467623" "8712939").PN.				
S164	24	("20060127042" "20080152236" "20080267458" "20090028384" "20090312985" "20100073371" "20100271511" "20110063409" "20110170792" "20110242341" "20120212579" "20120236114" "20120243733" "20120256941" "20120330447" "20130022111" "20130148882" "20140119654" "20140201126" "20150217449" "20150304634" "20160009413" "6678590" "7430682").PN.	US-PGPUB; USPAT	OR	ON	2016/09/06 13:43
S165	2	((("20080205764") or ("20100225824")).PN.	US-PGPUB; USPAT	OR	OFF	2016/09/06 13:59
S167	1	("20030216919").PN.	US-PGPUB; USPAT	OR	OFF	2016/09/06 14:02
S168	3	((("7855755") or ("7720580") or ("7038577")).PN.	US-PGPUB; USPAT	OR	OFF	2016/09/06 14:29

S169	2	((("6396397") or ("7123168")).PN.	US-PGPUB; USPAT	OR	OFF	2016/09/06 14:33
S170	2886	(object subject target) with distance with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT	OR	ON	2016/09/06 14:40
S171	2	S154 and S170	US-PGPUB; USPAT	OR	ON	2016/09/06 14:40
S172	976	(object subject target) near2 distance with image near3 (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT	OR	ON	2016/09/06 14:41
S173	3463	(object subject target) with distance with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/09/06 14:41
S174	2	S154 and S173	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/09/06 14:42
S175	11137	S138 S139 S140 S141 S142	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/09/06 14:42
S176	2	S173 and S175	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/09/06 14:42
S177	15	(object subject target) near2 distance with image near3 (contrast sharpness ((disk circle) near3 (blur confusion indistinctness))) and (adaptive near3 (speed velocity cruise))	US-PGPUB; USPAT	OR	ON	2016/09/06 14:43
S178	4	("20100033619" "20080055424" "20040227814" "20090174809").PN.	US-PGPUB; USPAT	OR	ON	2016/09/06 14:46
S179	4	("20110170792" "20150217449" "20160009413" "6678590").PN.	US-PGPUB; USPAT	OR	ON	2016/09/06 16:12
S181	6510	(object subject target) with detect\$3 with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT	OR	ON	2016/09/07 13:33
S182	131	(object subject target) with detect\$3 with (present presence) with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT	OR	ON	2016/09/07 13:33
S183	11	("8536667" "20150341578" "6618093" "20090115875"	US-PGPUB; USPAT	OR	ON	2016/09/08 15:15

		"20140098267" "20110032386" "3351763" "20120154624" "6657378" "9041851" "9332201").PN. or ("20090115875" "20110032386" "20120154624" "20140098267" "3351763" "6618093" "6657378" "9041851").PN.				
S184	2256	382/104-105.ccls.	US-PGPUB; USPAT	OR	ON	2016/09/17 22:47
S185	814	S184 and contrast	US-PGPUB; USPAT	OR	ON	2016/09/17 22:47
S186	200	S184 and contrast with (object obstacle)	US-PGPUB; USPAT	OR	ON	2016/09/17 22:47
S187	3	S184 and contrast with (object obstacle) with (present presence)	US-PGPUB; USPAT	OR	ON	2016/09/17 22:48
S188	6	("20100027863" "5410250" "5760902" "6389169" "6801655" "6934415").PN. OR ("8542875").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/09/17 22:48
S189	35	("20020056806" "20040179099" "20040264763" "20060023074" "20060028542" "20060072020" "20060081778" "20070064976" "20070165910" "20080027591" "20080071492" "20090140887" "20090226033" "20090271054" "20090276105" "20100039110" "20100045666" "20100172542" "3781111" "5317689" "5467072" "5793310" "5867536" "6859731" "6889786" "7016783" "7337650" "7647180" "7703679").PN. OR ("8108147").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/09/17 22:48
S190	4	((("20150338204") or ("20150339826") or ("20140277718") or ("20150350614"))).PN.	US-PGPUB; USPAT	OR	OFF	2016/09/17 22:54
S191	2	((("8095313") or ("8244458"))).PN.	US-PGPUB; USPAT	OR	OFF	2016/09/17 22:54
S192	504	uav and ((auto automatic\$4 autonomous) with (land landing))	US-PGPUB; USPAT	OR	ON	2016/09/17 22:55
S193	41	uav and ((auto automatic\$4 autonomous) with (land landing) with (camera image video))	US-PGPUB; USPAT	OR	ON	2016/09/17 22:55
S194	55	uav and ((auto automatic\$4 autonomous) with (land landing) with (camera image video))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/09/17 22:55
S195	68	mobileye and distance and landing	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/09/17 22:55
S196	68	mobileye and distance and landing and contrast	US-PGPUB; USPAT;	OR	ON	2016/09/17 22:55

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S197	1	("7113867").PN.	US-PGPUB; USPAT	OR	OFF	2016/09/17 22:56
S198	1	("20080266396").PN.	US-PGPUB; USPAT	OR	OFF	2016/09/17 22:56
S199	1	("6704621").PN.	US-PGPUB; USPAT	OR	OFF	2016/09/17 22:56
S200	4	("20110170792" "20150217449" "20160009413" "6678590").PN.	US-PGPUB; USPAT	OR	ON	2016/09/17 23:00
S201	2	((("20120143808") or ("20090157233"))).PN.	US-PGPUB; USPAT	OR	OFF	2016/09/18 00:54
S202	781	image and (high adj pass adj filter\$4) with contrast	US-PGPUB; USPAT	OR	ON	2016/09/18 01:46
S203	178	image and (high adj pass adj filter\$4) with contrast with (detect\$4 calculat\$4)	US-PGPUB; USPAT	OR	ON	2016/09/18 01:49
S204	457	"348".clas. and rocket	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2016/09/18 02:25
S205	54	"348".clas. and rocket and guidance	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2016/09/18 02:25
S206	2	"US 20160044257"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2016/09/18 02:25
S207	300	chriss near3 yoder	US-PGPUB; USPAT	OR	ON	2016/09/18 02:25
S208	2	"US 20160004923"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2016/09/18 02:25
S209	1	("20160059962").PN.	US-PGPUB; USPAT	OR	OFF	2016/09/18 02:25
S210	1	("20140263823").PN.	US-PGPUB; USPAT	OR	OFF	2016/09/18 02:25
S211	1	("20160018822").PN.	US-PGPUB; USPAT	OR	OFF	2016/09/18 02:25
S212	1	("7898130").PN.	US-PGPUB; USPAT	OR	OFF	2016/09/18 02:25
S213	1	("8378881").PN.	US-PGPUB; USPAT	OR	OFF	2016/09/18 02:25
S214	1	("8931730").PN.	US-PGPUB; USPAT	OR	OFF	2016/09/18 02:25
S215	2	((("9164506") or ("9280038"))).PN.	US-PGPUB; USPAT	OR	OFF	2016/09/18 02:25
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S219	1982	B60W30/08.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/09/18 02:25
S220	3504	B60W30/09.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/09/18 02:25
S221	1186	B60W30/14.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/09/18 02:25
S222	5744	B60W30/16.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/09/18 02:25
S223	629	B60W30/17.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/09/18 02:25
S224	142	("20050096539" "20070022068" "20080174700" "20100086171" "20100299296" "20120011090" "20120083982" "20130073492" "20130325774" "20140032458" "20150127154" "6458157" "6581046" "7653255" "20110063409" "6678590" "20050015351" "20100036457" "20110206122" "20120308076" "20130050574" "20130073499" "20140064609" "20140122399" "5355435" "6009418" "6014653" "6545708" "6546291" "7737933" "8000967" "8200593"	US-PGPUB; USPAT	OR	ON	2016/09/18 02:25

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S225	49	((Filip) near2 (Piekniewski)).INV.	US-PGPUB; USPAT	OR	ON	2016/09/18 02:25
S226	24	((Vadim) near2 (Polonichko)).INV.	US-PGPUB; USPAT	OR	ON	2016/09/18 02:25
S227	118	((Eugene) near2 (Izhikevich)).INV.	US-PGPUB; USPAT	OR	ON	2016/09/18 02:25
S228	1	("5831669").PN.	US-PGPUB; USPAT	OR	OFF	2016/09/18 02:25
S229	0	subaru.as. and driver near3 assist and	US-PGPUB;	OR	ON	2016/09/18

		(camera imaging (image adj (sensor captur\$4)))	USPAT			02:25
S230	4	subaru.as.	US-PGPUB; USPAT	OR	ON	2016/09/18 02:25
S231	41	subaru.in.	US-PGPUB; USPAT	OR	ON	2016/09/18 02:25
S232	1	subaru and driver near3 assist and (camera imaging (image adj (sensor captur\$4)))	US-PGPUB; USPAT	OR	ON	2016/09/18 02:25
S233	8	("20080152236" "20080267458" "20090028384" "20090312985" "20120330447" "20140119654" "20140201126" "20150304634").PN.	US-PGPUB; USPAT	OR	ON	2016/09/18 02:25
S234	0	ultrasonic with lidar with IR with contrast	US-PGPUB; USPAT	OR	ON	2016/09/18 02:25
S235	2	ultrasonic with lidar with (contrast sharpness)	US-PGPUB; USPAT	OR	ON	2016/09/18 02:25
S236	0	("2016/0004923").URPN.	USPAT	OR	ON	2016/09/18 02:25
S237	187	("20020038294" "20020158599" "20020169733" "20020198854" "20030023347" "20030050903" "20030144764" "20040036437" "20040051493" "20040136439" "20040158358" "20040193670" "20050004710" "20050015351" "20050036649" "20050049749" "20050065651" "20050069207" "20050283450" "20060094001" "20060161218" "20060181236" "20060207419" "20070022068" "20070176643" "20070208678" "20070260356" "20080040040" "20080097644" "20080100482" "20080112596" "20080133052" "20080154428" "20080319929" "20090037033" "20090043722" "20090234501" "20090287624" "20100036457" "20100081958" "20100086171" "20100166320" "20100169098" "20100222924" "20100225824" "20100286824" "20100292835" "20100299101" "20100312730" "20110016071" "20110026770" "20110035052" "20110060461" "20110067479" "20110119214" "20110119215" "20110144802" "20110158476" "20110160906" "20110196199" "20110231016" "20110296944" "20120011090" "20120045068" "20120053728" "20120109866" "20120143495" "20120150781" "20120173021" "20120197439" "20120209428" "20120209432" "20120303091" "20120308076" "20120308136" "20130019325" "20130066468" "20130073484" "20130073491" "20130073492" "20130073495" "20130073496" "20130073498" "20130073499")	US-PGPUB; USPAT; USOCR	OR	ON	2016/09/18 02:25

		"20130073500" "20130096719" "20130116827" "20130151448" "20130151449" "20130151450" "20130218821" "20130251278" "20130297542").PN. OR ("20130310979" "20130325244" "20130325768" "20130325773" "20130325775" "20130325776" "20130325777" "20140012788" "20140016858" "20140027718" "20140032458" "20140032459" "20140052679" "20140081895" "20140089232" "20140122397" "20140122398" "20140156574" "20140163729" "20140222739" "20140229411" "20140244557" "20140277718" "20140277744" "20140358284" "20140371907" "20140371912" "20150032258" "20150094850" "20150094852" "20150127149" "20150127154" "20150127155" "4468617" "4763276" "4852018" "5063603" "5092343" "5245672" "5355435" "5388186" "5408588" "5467428" "5579440" "5602761" "5638359" "5673367" "5719480" "5739811" "5841959" "5875108" "6009418" "6014653" "6259988" "6363369" "6366293" "6442451" "6458157" "6489741" "6545705" "6545708" "6546291" "6581046" "6636781" "6643627" "6697711" "6961060" "7002585" "7024276" "7324870" "7342589" "7395251" "7426501" "7668605" "7672920" "7752544" "7849030" "8015130" "8315305" "8419804" "8452448" "8467623" "8509951" "8639644" "8751042" "8793205" "8958912" "8972315" "8990133" "9008840" "9015092" "9015093" "9047568" "9070039").PN. OR ("9248569").URPN.				
S238	0	("9248569").URPN.	USPAT	OR	ON	2016/09/18 02:25
S239	118	("20020038294" "20030050903" "20030218919" "20040054964" "20040136439" "20040170330" "20040193670" "20050015351" "20050036649" "20050096539" "20050283450" "20060094001" "20060129728" "20060161218" "20070022068" "20070176643" "20070208678" "20080100482" "20080174700" "20080199072" "20080237446" "20090043722" "20090202114" "20090205764" "20090287624" "20090304231" "20100036457" "20100081958" "20100086171" "20100100482" "20100166320" "20100235310" "20100299296" "20110016071" "20110119214" "20110119215" "20110134242" "20110137843"	US-PGPUB; USPAT	OR	ON	2016/09/18 02:25

		"20110160741" "20110206122" "20120011090" "20120083982" "20120084240" "20120109866" "20120303091" "20120308076" "20120308136" "20130050574" "20130051680" "20130073484" "20130073491" "20130073492" "20130073495" "20130073496" "20130073498" "20130073499" "20130073500" "20130151450" "20130176430" "20130218821" "20130251278" "20130297539" "20130297541" "20130297542" "20130325766" "20130325768" "20130325773" "20130325774" "20130325775" "20130325777" "20140012788" "20140016858" "20140032458" "20140032459" "20140052679" "20140064609" "20140122397" "20140122398" "20140122399" "20140156574" "20150077639" "20150127154" "20150127155" "20150181168" "5063603" "5138447" "5216752" "5272535" "5355435" "5638359" "5673367" "5875108" "6009418" "6014653" "6035389" "6418424" "6458157" "6509854" "6545705" "6545708" "6546291" "6581046" "6625317" "7580907" "7653255" "7737933" "7849030" "8000967" "8015130" "8103602" "8160354" "8200593" "8311965" "8315305" "8390707" "8416847" "8467623" "8712939").PN.				
S240	24	("20060127042" "20080152236" "20080267458" "20090028384" "20090312985" "20100073371" "20100271511" "20110063409" "20110170792" "20110242341" "20120212579" "20120236114" "20120243733" "20120256941" "20120330447" "20130022111" "20130148882" "20140119654" "20140201126" "20150217449" "20150304634" "20160009413" "6678590" "7430682").PN.	US-PGPUB; USPAT	OR	ON	2016/09/18 02:25
S241	2	((("20080205764") or ("20100225824")).PN.	US-PGPUB; USPAT	OR	OFF	2016/09/18 02:25
S242	1	("20030216919").PN.	US-PGPUB; USPAT	OR	OFF	2016/09/18 02:25
S243	3	((("7855755") or ("7720580") or ("7038577")).PN.	US-PGPUB; USPAT	OR	OFF	2016/09/18 02:25
S244	2	((("6396397") or ("7123168")).PN.	US-PGPUB; USPAT	OR	OFF	2016/09/18 02:25
S245	2897	(object subject target) with distance with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT	OR	ON	2016/09/18 02:25
S246	981	(object subject target) near2 distance with image near3 (contrast sharpness ((disk circle) near3 (blur confusion	US-PGPUB; USPAT	OR	ON	2016/09/18 02:25

		indistinctness)))				
S247	11449	S219 S220 S221 S222 S223	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/09/18 02:25
S248	16	(object subject target) near2 distance with image near3 (contrast sharpness ((disk circle) near3 (blur confusion indistinctness))) and (adaptive near3 (speed velocity cruise))	US-PGPUB; USPAT	OR	ON	2016/09/18 02:25
S249	4	("20100033619" "20080055424" "20040227814" "20090174809").PN.	US-PGPUB; USPAT	OR	ON	2016/09/18 02:25
S250	4	("20110170792" "20150217449" "20160009413" "6678590").PN.	US-PGPUB; USPAT	OR	ON	2016/09/18 02:25
S251	6521	(object subject target) with detect\$3 with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT	OR	ON	2016/09/18 02:25
S252	132	(object subject target) with detect\$3 with (present presence) with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT	OR	ON	2016/09/18 02:25
S253	11	("8536667" "20150341578" "6618093" "20090115875" "20140098267" "20110032386" "3351763" "20120154624" "6657378" "9041851" "9332201").PN. or ("20090115875" "20110032386" "20120154624" "20140098267" "3351763" "6618093" "6657378" "9041851").PN.	US-PGPUB; USPAT	OR	ON	2016/09/18 02:25
S254	1982	B60W30/08.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/09/18 13:06
S255	3504	B60W30/09.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/09/18 13:06
S256	1186	B60W30/14.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/09/18 13:06
S257	5744	B60W30/16.cpc.	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2016/09/18 13:06

			EPO; JPO; DERWENT; IBM_TDB			
S258	629	B60W30/17.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/09/18 13:06
S259	2595	S254 S255 S256 S257 S258	US-PGPUB; USPAT	OR	ON	2016/09/18 13:06
S260	4	S259 and contrast with (object obstacle) with (present presence)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/09/18 13:06
S261	3484	(object subject target) with distance with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/09/18 13:08
S262	35	(object subject target) with (present presence) with distance with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/09/18 13:08
S263	8	("20060188168" "20120130566" "20140379179" "7016783" "7113867" "8108147" "8542875" "9150220").PN.	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S264	462	"348".clas. and rocket	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/06/22 16:56
S265	55	"348".clas. and rocket and guidance	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/06/22 16:56
S266	2	"US 20160044257"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/06/22 16:56
S267	330	chriss near3 yoder	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S268	2	"US 20160004923"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/06/22 16:56
S275	2	((("9164506") or ("9280038"))).PN.	US-PGPUB; USPAT	OR	OFF	2017/06/22 16:56
S276	23	("20080054158" "20090157233" "20090187299" "20100004802"	US-PGPUB; USPAT;	OR	ON	2017/06/22 16:56

		"20100250022" "20110141287" "20110304737" "20120143808" "20120154579" "20120200703" "20120287274" "20120307042" "20130085643" "20130176423" "20140049643" "7970507").PN. OR ("9164506").URPN.	USOCR			
S277	2	"US 20160004923"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/06/22 16:56
S279	2669	B60W30/08.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/22 16:56
S280	4603	B60W30/09.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/22 16:56
S281	1615	B60W30/14.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/22 16:56
S282	6802	B60W30/16.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/22 16:56
S283	749	B60W30/17.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/22 16:56
S284	142	("20050096539" "20070022068" "20080174700" "20100086171" "20100299296" "20120011090" "20120083982" "20130073492" "20130325774" "20140032458" "20150127154" "6458157" "6581046" "7653255" "20110063409" "6678590" "20050015351" "20100036457" "20110206122" "20120308076" "20130050574" "20130073499" "20140064609" "20140122399" "5355435" "6009418" "6014653" "6545708" "6546291" "7737933" "8000967" "8200593" "20110170792" "20110242341"	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56

		"20030218919" "20050283450" "20070176643" "20070208678" "20080199072" "20110016071" "20110119214" "20110137843" "20130073498" "20130297539" "20130325766" "20130325768" "5138447" "5638359" "6035389" "8015130" "8315305" "20120236114" "20120330447" "20140119654" "20040136439" "20100100482" "20100166320" "20100235310" "20120308136" "20130073484" "20130073491" "20130073496" "20130151450" "20130325775" "20130325777" "20140012788" "20140016858" "5063603" "7849030" "8390707" "8712939" "20100073371" "20120256941" "20160009413" "7430682" "20080237446" "20090287624" "20130073495" "20130297541" "20140032459" "20140122397" "5272535" "5673367" "6545705" "6625317" "8103602" "8160354" "20080267458" "20090028384" "20130148882" "20020038294" "20040193670" "20050036649" "20090202114" "20090205764" "20090304231" "20120109866" "20130218821" "20140052679" "20140156574" "5216752" "5875108" "6509854" "8416847" "8467623" "20060127042" "20100271511" "20120243733" "20150304634" "20040054964" "20040170330" "20060094001" "20060129728" "20060161218" "20080100482" "20100081958" "20110134242" "20120303091" "20130051680" "20130073500" "20130176430" "20130297542" "20130325773" "20140122398" "20150077639" "20150181168" "7580907" "8311965" "20120212579" "20130022111" "20150217449" "20030050903" "20090043722" "20110119215" "20110160741" "20120084240" "20130251278" "20150127155" "6418424" "20080152236" "20090312985" "20140201126").PN.				
S285	51	((Filip) near2 (Piekniewski)).INV.	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S286	29	((Vadim) near2 (Polonichko)).INV.	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S287	134	((Eugene) near2 (Izhikevich)).INV.	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S289	1	subaru.as. and driver near3 assist and (camera imaging (image adj (sensor captur\$4)))	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S290	6	subaru.as.	US-PGPUB;	OR	ON	2017/06/22

			USPAT			16:56
S291	41	subaru.in.	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S292	3	subaru and driver near3 assist and (camera imaging (image adj (sensor captur\$4)))	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S293	26	("20040167717" "20110190972" "20110251768" "20120166032" "20120226392" "20130226402" "20130282271" "20130308828" "20140005907" "4970653" "5684697" "6370471" "6744380" "7231288" "7257478" "7260465" "7831368" "8170739" "8355539" "8504233" "8543277" "8593272" "8676466" "8706394" "8788134").PN. OR ("9150220").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/06/22 16:56
S294	151	S285 S286 S287	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S295	3153	S279 S280 S281 S282 S283	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S296	88	S294 and contrast	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S297	39	S294 and contrast and actuator	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S298	8	("20080152236" "20080267458" "20090028384" "20090312985" "20120330447" "20140119654" "20140201126" "20150304634").PN.	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S299	0	ultrasonic with lidar with IR with contrast	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S300	2	ultrasonic with lidar with (contrast sharpness)	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S301	5	("2016/0004923").URPN.	USPAT	OR	ON	2017/06/22 16:56
S302	187	("20020038294" "20020158599" "20020169733" "20020198854" "20030023347" "20030050903" "20030144764" "20040036437" "20040051493" "20040136439" "20040158358" "20040193670" "20050004710" "20050015351" "20050036649" "20050049749" "20050065651" "20050069207" "20050283450" "20060094001" "20060161218" "20060181236" "20060207419" "20070022068" "20070176643" "20070208678" "20070260356" "20080040040" "20080097644" "20080100482" "20080112596" "20080133052" "20080154428" "20080319929" "20090037033" "20090043722" "20090234501" "20090287624" "20100036457" "20100081958" "20100086171" "20100166320" "20100169098" "20100222924" "20100225824" "20100286824" "20100292835" "20100299101" "20100312730" "20110016071"	US-PGPUB; USPAT; USOCR	OR	ON	2017/06/22 16:56

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S306	2	((("20080205764") or ("20100225824")).PN.	US-PGPUB; USPAT	OR	OFF	2017/06/22 16:56
S308	3	((("7855755") or ("7720580") or ("7038577")).PN.	US-PGPUB; USPAT	OR	OFF	2017/06/22 16:56
S309	2	((("6396397") or ("7123168")).PN.	US-PGPUB; USPAT	OR	OFF	2017/06/22 16:56
S310	3054	(object subject target) with distance with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S311	2	S295 and S310	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S312	1044	(object subject target) near2 distance with image near3 (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S313	3700	(object subject target) with distance with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/22 16:56
S314	2	S295 and S313	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/22 16:56
S315	14391	S279 S280 S281 S282 S283	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/22 16:56
S316	2	S313 and S315	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/22 16:56
S317	17	(object subject target) near2 distance with image near3 (contrast sharpness ((disk circle) near3 (blur confusion indistinctness))) and (adaptive near3 (speed velocity cruise))	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S318	4	("20100033619" "20080055424" "20040227814" "20090174809").PN.	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S319	4	("20110170792" "20150217449" "20160009413" "6678590").PN.	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S320	6982	(object subject target) with detect\$3 with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S321	140	(object subject target) with detect\$3 with (present presence) with image	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56

		with (contrast sharpness ((disk circle near3 (blur confusion indistinctness)))				
S322	11	("8536667" "20150341578" "6618093" "20090115875" "20140098267" "20110032386" "3351763" "20120154624" "6657378" "9041851" "9332201").PN. or ("20090115875" "20110032386" "20120154624" "20140098267" "3351763" "6618093" "6657378" "9041851").PN.	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S323	2259	382/104-105.ccls.	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S324	816	S323 and contrast	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S325	201	S323 and contrast with (object obstacle)	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S326	3	S323 and contrast with (object obstacle) with (present presence)	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S327	6	("20100027863" "5410250" "5760902" "6389169" "6801655" "6934415").PN. OR ("8542875").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/06/22 16:56
S328	37	("20020056806" "20040179099" "20040264763" "20060023074" "20060028542" "20060072020" "20060081778" "20070064976" "20070165910" "20080027591" "20080071492" "20090140887" "20090226033" "20090271054" "20090276105" "20100039110" "20100045666" "20100172542" "3781111" "5317689" "5467072" "5793310" "5867536" "6859731" "6889786" "7016783" "7337650" "7647180" "7703679").PN. OR ("8108147").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/06/22 16:56
S329	4	((("20150338204") or ("20150339826") or ("20140277718") or ("20150350614"))).PN.	US-PGPUB; USPAT	OR	OFF	2017/06/22 16:56
S330	2	((("8095313") or ("8244458"))).PN.	US-PGPUB; USPAT	OR	OFF	2017/06/22 16:56
S331	680	uav and ((auto automatic\$4 autonomous) with (land landing))	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S332	65	uav and ((auto automatic\$4 autonomous) with (land landing) with (camera image video))	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S333	88	uav and ((auto automatic\$4 autonomous) with (land landing) with (camera image video))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/22 16:56
S334	68	mobileye and distance and landing	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2017/06/22 16:56

			DERWENT; IBM_TDB			
S335	68	mobileye and distance and landing and contrast	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/22 16:56
S339	4	("20110170792" "20150217449" "20160009413" "6678590").PN.	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S340	2	((("20120143808") or ("20090157233"))).PN.	US-PGPUB; USPAT	OR	OFF	2017/06/22 16:56
S341	864	image and (high adj pass adj filter\$4) with contrast	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S342	192	image and (high adj pass adj filter\$4) with contrast with (detect\$4 calculat\$4)	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S343	462	"348".clas. and rocket	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/06/22 16:56
S344	55	"348".clas. and rocket and guidance	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/06/22 16:56
S345	2	"US 20160044257"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/06/22 16:56
S346	330	chriss near3 yoder	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S347	2	"US 20160004923"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/06/22 16:56
S354	2	((("9164506") or ("9280038"))).PN.	US-PGPUB; USPAT	OR	OFF	2017/06/22 16:56
S355	23	("20080054158" "20090157233" "20090187299" "20100004802" "20100250022" "20110141287" "20110304737" "20120143808" "20120154579" "20120200703" "20120287274" "20120307042" "20130085643" "20130176423" "20140049643" "7970507").PN. OR ("9164506").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/06/22 16:56
S356	2	"US 20160004923"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/06/22 16:56
S358	2669	B60W30/08.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/22 16:56

S359	4603	B60W30/09.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/22 16:56
S360	1615	B60W30/14.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/22 16:56
S361	6802	B60W30/16.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/22 16:56
S362	749	B60W30/17.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/22 16:56
S363	142	("20050096539" "20070022068" "20080174700" "20100086171" "20100299296" "20120011090" "20120083982" "20130073492" "20130325774" "20140032458" "20150127154" "6458157" "6581046" "7653255" "20110063409" "6678590" "20050015351" "20100036457" "20110206122" "20120308076" "20130050574" "20130073499" "20140064609" "20140122399" "5355435" "6009418" "6014653" "6545708" "6546291" "7737933" "8000967" "8200593" "20110170792" "20110242341" "20030218919" "20050283450" "20070176643" "20070208678" "20080199072" "20110016071" "20110119214" "20110137843" "20130073498" "20130297539" "20130325766" "20130325768" "5138447" "5638359" "6035389" "8015130" "8315305" "20120236114" "20120330447" "20140119654" "20040136439" "20100100482" "20100166320" "20100235310" "20120308136" "20130073484" "20130073491" "20130073496" "20130151450" "20130325775" "20130325777" "20140012788" "20140016858" "5063603" "7849030" "8390707" "8712939" "20100073371" "20120256941" "20160009413")	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56

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S365	29	((Vadim) near2 (Polonichko)).INV.	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S366	134	((Eugene) near2 (Izhikevich)).INV.	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S367	1	("5831669").PN.	US-PGPUB; USPAT	OR	OFF	2017/06/22 16:56
S368	1	subaru.as. and driver near3 assist and (camera imaging (image adj (sensor captur\$4)))	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S369	6	subaru.as.	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S370	41	subaru.in.	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S371	3	subaru and driver near3 assist and (camera imaging (image adj (sensor captur\$4)))	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S372	8	("20080152236" "20080267458" "20090028384" "20090312985" "20120330447" "20140119654" "20140201126" "20150304634").PN.	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S373	0	ultrasonic with lidar with IR with contrast	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S374	2	ultrasonic with lidar with (contrast sharpness)	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S375	5	("2016/0004923").URPN.	USPAT	OR	ON	2017/06/22

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		"20050036649"	"20050049749"			
		"20050065651"	"20050069207"			
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		"20130325775"	"20130325776"			
		"20130325777"	"20140012788"			
		"20140016858"	"20140027718"			
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		"20140052679"	"20140081895"			
		"20140089232"	"20140122397"			
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S377	0	("9248569").URPN.	USPAT	OR	ON	2017/06/22 16:56
S378	118	("20020038294" "20030050903" "20030218919" "20040054964" "20040136439" "20040170330" "20040193670" "20050015351" "20050036649" "20050096539" "20050283450" "20060094001" "20060129728" "20060161218" "20070022068" "20070176643" "20070208678" "20080100482" "20080174700" "20080199072" "20080237446" "20090043722" "20090202114" "20090205764" "20090287624" "20090304231" "20100036457" "20100081958" "20100086171" "20100100482" "20100166320" "20100235310" "20100299296" "20110016071" "20110119214" "20110119215" "20110134242" "20110137843" "20110160741" "20110206122" "20120011090" "20120083982" "20120084240" "20120109866" "20120303091" "20120308076" "20120308136" "20130050574" "20130051680" "20130073484" "20130073491" "20130073492" "20130073495" "20130073496" "20130073498" "20130073499" "20130073500" "20130151450" "20130176430" "20130218821" "20130251278" "20130297539" "20130297541" "20130297542" "20130325766" "20130325768" "20130325773" "20130325774" "20130325775" "20130325777" "20140012788" "20140016858" "20140032458" "20140032459" "20140052679" "20140064609" "20140122397" "20140122398" "20140122399" "20140156574"	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56

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S379	24	("20060127042" "20080152236" "20080267458" "20090028384" "20090312985" "20100073371" "20100271511" "20110063409" "20110170792" "20110242341" "20120212579" "20120236114" "20120243733" "20120256941" "20120330447" "20130022111" "20130148882" "20140119654" "20140201126" "20150217449" "20150304634" "20160009413" "6678590" "7430682").PN.	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S380	2	((("20080205764") or ("20100225824")).PN.	US-PGPUB; USPAT	OR	OFF	2017/06/22 16:56
S381	1	("20030216919").PN.	US-PGPUB; USPAT	OR	OFF	2017/06/22 16:56
S382	3	((("7855755") or ("7720580") or ("7038577")).PN.	US-PGPUB; USPAT	OR	OFF	2017/06/22 16:56
S383	2	((("6396397") or ("7123168")).PN.	US-PGPUB; USPAT	OR	OFF	2017/06/22 16:56
S384	3054	(object subject target) with distance with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S385	1044	(object subject target) near2 distance with image near3 (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S386	14391	S358 S359 S360 S361 S362	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/22 16:56
S387	17	(object subject target) near2 distance with image near3 (contrast sharpness ((disk circle) near3 (blur confusion indistinctness))) and (adaptive near3 (speed velocity cruise))	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S388	4	("20100033619" "20080055424" "20040227814" "20090174809").PN.	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S389	4	("20110170792" "20150217449" "20160009413" "6678590").PN.	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S390	6982	(object subject target) with detect\$3 with image with (contrast sharpness	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56

		((disk circle) near3 (blur confusion indistinctness)))				
S391	140	(object subject target) with detect\$3 with (present presence) with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S392	11	("8536667" "20150341578" "6618093" "20090115875" "20140098267" "20110032386" "3351763" "20120154624" "6657378" "9041851" "9332201").PN. or ("20090115875" "20110032386" "20120154624" "20140098267" "3351763" "6618093" "6657378" "9041851").PN.	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S393	2669	B60W30/08.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/22 16:56
S394	4603	B60W30/09.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/22 16:56
S395	1615	B60W30/14.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/22 16:56
S396	6802	B60W30/16.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/22 16:56
S397	749	B60W30/17.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/22 16:56
S398	3153	S393 S394 S395 S396 S397	US-PGPUB; USPAT	OR	ON	2017/06/22 16:56
S399	4	S398 and contrast with (object obstacle) with (present presence)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/22 16:56

S400	3700	(object subject target) with distance with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/22 16:56
S401	39	(object subject target) with (present presence) with distance with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/22 16:56
S402	118	("20020038294" "20030050903" "20030218919" "20040054964" "20040136439" "20040170330" "20040193670" "20050015351" "20050036649" "20050096539" "20050283450" "20060094001" "20060129728" "20060161218" "20070022068" "20070176643" "20070208678" "20080100482" "20080174700" "20080199072" "20080237446" "20090043722" "20090202114" "20090205764" "20090287624" "20090304231" "20100036457" "20100081958" "20100086171" "20100100482" "20100166320" "20100235310" "20100299296" "20110016071" "20110119214" "20110119215" "20110134242" "20110137843" "20110160741" "20110206122" "20120011090" "20120083982" "20120084240" "20120109866" "20120303091" "20120308076" "20120308136" "20130050574" "20130051680" "20130073484" "20130073491" "20130073492" "20130073495" "20130073496" "20130073498" "20130073499" "20130073500" "20130151450" "20130176430" "20130218821" "20130251278" "20130297539" "20130297541" "20130297542" "20130325766" "20130325768" "20130325773" "20130325774" "20130325775" "20130325777" "20140012788" "20140016858" "20140032458" "20140032459" "20140052679" "20140064609" "20140122397" "20140122398" "20140122399" "20140156574" "20150077639" "20150127154" "20150127155" "20150181168" "5063603" "5138447" "5216752" "5272535" "5355435" "5638359" "5673367" "5875108" "6009418" "6014653" "6035389" "6418424" "6458157" "6509854" "6545705" "6545708" "6546291" "6581046" "6625317" "7580907" "7653255" "7737933" "7849030" "8000967"	US-PGPUB; USPAT	OR	ON	2017/06/22 17:10

		"8015130" "8103602" "8160354" "8200593" "8311965" "8315305" "8390707" "8416847" "8467623" "8712939").PN.				
S403	1	("7430682").PN.	US-PGPUB; USPAT	OR	ON	2017/06/22 17:10
S404	24	("20060127042" "20080152236" "20080267458" "20090028384" "20090312985" "20100073371" "20100271511" "20110063409" "20110170792" "20110242341" "20120212579" "20120236114" "20120243733" "20120256941" "20120330447" "20130022111" "20130148882" "20140119654" "20140201126" "20150217449" "20150304634" "20160009413" "6678590" "7430682").PN.	US-PGPUB; USPAT	OR	ON	2017/06/22 17:10
S405	64	(US-20130038788-\$ or US-20120224031-\$ or US-20120162453-\$ or US-20120147151-\$ or US-20120070141-\$ or US-20120062781-\$ or US-20110176035-\$ or US-20110019294-\$ or US-20110001868-\$ or US-20100259670-\$ or US-20100245882-\$ or US-20100209097-\$ or US-20100150541-\$ or US-20100103311-\$ or US-20100060748-\$ or US-20090201595-\$ or US-20090015704-\$ or US-20080309815-\$ or US-20070273782-\$ or US-20070024740-\$ or US-20060082657-\$ or US-20020197070-\$ or US-20020118292-\$ or US-20020080242-\$ or US-20080079849-\$ or US-20070172230-\$).did. or (US-20070035656-\$ or US-20040042782-\$ or US-20120113288-\$).did. or (US-8289436-\$ or US-8075201-\$ or US-7918614-\$ or US-7898594-\$ or US-7885022-\$ or US-7880797-\$ or US-7800680-\$ or US-7760266-\$ or US-7605860-\$ or US-6963365-\$ or US-6603930-\$ or US-6567126-\$ or US-6318912-\$ or US-6285400-\$ or US-6072529-\$ or US-5701205-\$ or US-5698841-\$ or US-5642223-\$ or US-5592331-\$ or US-5194988-\$ or US-5044728-\$ or US-4229094-\$ or US-4081812-\$ or US-7268805-\$ or US-8400724-\$ or US-8287197-\$).did. or (US-7864242-\$ or US-6985177-\$ or US-5640630-\$).did. or (JP-07170433-\$ or JP-04253042-\$ or JP-04253041-\$ or JP-61153626-\$ or JP-59214836-\$ or JP-58028729-\$).did.	US-PGPUB; USPAT; JPO	OR	ON	2017/06/22 18:40
S406	1	("7433128").PN.	US-PGPUB; USPAT	OR	OFF	2017/06/22 18:55
S407	534	(382/153).CCLS.	US-PGPUB; USPAT	OR	OFF	2017/06/22 19:00
S408	73	S407 and tilt	US-PGPUB; USPAT	OR	ON	2017/06/22 19:06

S409	1439	B25J9/1697.cpc.	US-PGPUB; USPAT	OR	ON	2017/06/22 19:08
S410	435	B25J9/1676.cpc.	US-PGPUB; USPAT	OR	ON	2017/06/22 19:08
S411	1434	G06K9/00664.cpc.	US-PGPUB; USPAT	OR	ON	2017/06/22 19:08
S412	1708	G06K9/00791.cpc.	US-PGPUB; USPAT	OR	ON	2017/06/22 19:08
S413	504	G06T7/004.cpc.	US-PGPUB; USPAT	OR	ON	2017/06/22 19:09
S415	32	S407 and ((tilt\$4 angle angled angling) with (lens))	US-PGPUB; USPAT	OR	ON	2017/06/22 19:10
S416	14	("20040204792" "20040244138" "20070239315" "20080039974" "20090118890" "20120083982" "20130245937" "20140240492" "20150157182" "20150168954" "20150362919" "20160104044" "6338013" "9002511").PN.	US-PGPUB; USPAT	OR	ON	2017/06/22 19:12
S417	4	S416 and ((tilt\$4 angle angled angling) with (lens))	US-PGPUB; USPAT	OR	ON	2017/06/22 19:14
S418	5291	S409 S410 S411 S412 S413	US-PGPUB; USPAT	OR	ON	2017/06/22 19:32
S419	106	S418 and ((tilt\$4) with (optic\$4 lens))	US-PGPUB; USPAT	OR	ON	2017/06/22 19:33
S420	3	S398 and ((tilt\$4) with (optic\$4 lens))	US-PGPUB; USPAT	OR	ON	2017/06/22 19:33
S421	84	("4476419" "4595866" "4636643" "4652745" "4676638" "4703237" "4798956" "4859867" "4867561" "4871917" "4960996" "4973844" "5262640" "5278425" "5313072" "5386111" "5414257" "5537003" "5661303" "5898183" "5923027" "6078056" "6097024").PN. OR ("6207967").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/06/22 20:09
S422	62	("20020056805" "20020121972" "4355271" "4481450" "4620141" "4652745" "4798956" "4859867" "4867561" "4871917" "4916307" "4916374" "4930742" "4956591" "4960996" "4973844" "4987354" "5059877" "5276389" "5306992" "5313072" "5336980" "5386111" "5483346" "5498866" "5581240" "5598146" "5659294" "5661303" "5663542" "5703568" "5796094" "5796106" "5811793" "5818600" "5821863" "5872437" "5877897" "5923027" "6008486" "6097024" "6118383" "6130421" "6207967" "6302545" "6313454" "6320176" "6323477" "6326613" "6349782" "6353392" "6396397" "6573490" "RE35762").PN. OR ("6861636").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/06/22 20:23
S423	127	("20010042822" "4355271" "4620141" "4652745" "4798956" "4859867" "4867561" "4871917" "4916307" "4916374" "4930742"	US-PGPUB; USPAT; USOCR	OR	ON	2017/06/22 20:24

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S425	79	S423 not S422	US-PGPUB; USPAT; USOCR	OR	ON	2017/06/22 20:36
S426	1	(13/382405).APP.	US-PGPUB; USOCR	OR	ON	2017/06/22 20:43
S427	3	("2012/0153154").URPN.	USPAT	OR	ON	2017/06/22 20:44
S428	16	("20030066955" "20050063071" "20070075220" "20080265134" "20080296577" "20090085755" "20090128629" "20120153154" "4515443" "4741605" "6452148" "6617564" "7863568").PN. OR ("8541732").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/06/22 20:46
S429	45	("20030066955" "20030201380" "20040004456" "20040164981" "20050035926" "20050063071" "20050231725" "20060163458" "20060191215" "20070075220" "20070216768" "20070268470" "20080027607" "20080185603" "20080265134" "20080296577" "20090085755" "20090128629" "20090201366" "20100208060" "20110043624" "20110253917" "20110273564" "20120026318" "20120026330" "20130235381" "4515443" "4741605" "5987152" "6331819" "6376824" "6392218" "6452148" "6555804" "6614015" "6617564" "6841767" "7208962" "7259367" "7612356" "7855353" "7863568" "8274562" "8541732" "8913132").PN. OR ("9040915").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/06/22 20:49
S430	8	("20050041123" "20050109918" "5438414" "5837994" "6320618" "6455831" "6563101" "6617564").PN. OR ("7506421").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/06/22 20:58
S431	462	"348".clas. and rocket	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/08/04 12:33
S432	55	"348".clas. and rocket and guidance	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/08/04 12:33
S433	2	"US 20160044257"	US-PGPUB; USPAT;	OR	ON	2017/08/04 12:33

			USOCR; DERWENT			
S434	335	chris near3 yoder	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S435	2	"US 20160004923"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/08/04 12:33
S436	1	("20160059962").PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S437	1	("20140263823").PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S438	1	("20160018822").PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S439	1	("7898130").PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S440	1	("8378881").PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S441	1	("8931730").PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S442	2	((("9164506") or ("9280038"))).PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S443	23	("20080054158" "20090157233" "20090187299" "20100004802" "20100250022" "20110141287" "20110304737" "20120143808" "20120154579" "20120200703" "20120287274" "20120307042" "20130085643" "20130176423" "20140049643" "7970507").PN. OR ("9164506").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/08/04 12:33
S444	2	"US 20160004923"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/08/04 12:33
S445	1	("20140307117").PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S446	2792	B60W30/08.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S447	4746	B60W30/09.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S448	1684	B60W30/14.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33

S449	6931	B60W30/16.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S450	759	B60W30/17.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S451	142	("20050096539" "20070022068" "20080174700" "20100086171" "20100299296" "20120011090" "20120083982" "20130073492" "20130325774" "20140032458" "20150127154" "6458157" "6581046" "7653255" "20110063409" "6678590" "20050015351" "20100036457" "20110206122" "20120308076" "20130050574" "20130073499" "20140064609" "20140122399" "5355435" "6009418" "6014653" "6545708" "6546291" "7737933" "8000967" "8200593" "20110170792" "20110242341" "20030218919" "20050283450" "20070176643" "20070208678" "20080199072" "20110016071" "20110119214" "20110137843" "20130073498" "20130297539" "20130325766" "20130325768" "5138447" "5638359" "6035389" "8015130" "8315305" "20120236114" "20120330447" "20140119654" "20040136439" "20100100482" "20100166320" "20100235310" "20120308136" "20130073484" "20130073491" "20130073496" "20130151450" "20130325775" "20130325777" "20140012788" "20140016858" "5063603" "7849030" "8390707" "8712939" "20100073371" "20120256941" "20160009413" "7430682" "20080237446" "20090287624" "20130073495" "20130297541" "20140032459" "20140122397" "5272535" "5673367" "6545705" "6625317" "8103602" "8160354" "20080267458" "20090028384" "20130148882" "20020038294" "20040193670" "20050036649" "20090202114" "20090205764" "20090304231" "20120109866" "20130218821" "20140052679" "20140156574" "5216752" "5875108" "6509854" "8416847" "8467623" "20060127042"	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33

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S452	51	((Filip) near2 (Piekniewski)).INV.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S453	31	((Vadim) near2 (Polonichko)).INV.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S454	135	((Eugene) near2 (Izhikevich)).INV.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S455	1	("5831669").PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S456	1	subaru.as. and driver near3 assist and (camera imaging (image adj (sensor captur\$4)))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S457	11	subaru.as.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S458	43	subaru.in.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S459	3	subaru and driver near3 assist and (camera imaging (image adj (sensor captur\$4)))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S460	27	("20040167717" "20110190972" "20110251768" "20120166032" "20120226392" "20130226402" "20130282271" "20130308828" "20140005907" "4970653" "5684697" "6370471" "6744380" "7231288" "7257478" "7260465" "7831368" "8170739" "8355539" "8504233" "8543277" "8593272" "8676466" "8706394" "8788134").PN. OR ("9150220").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/08/04 12:33
S461	154	S452 S453 S454	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S462	3243	S446 S447 S448 S449 S450	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S463	89	S461 and contrast	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S464	40	S461 and contrast and actuator	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S465	8	("20080152236" "20080267458" "20090028384" "20090312985" "20120330447" "20140119654" "20140201126" "20150304634").PN.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33

S466	0	ultrasonic with lidar with IR with contrast	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S467	2	ultrasonic with lidar with (contrast sharpness)	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S468	7	("2016/0004923").URPN.	USPAT	OR	ON	2017/08/04 12:33
S469	187	("20020038294" "20020158599" "20020169733" "20020198854" "20030023347" "20030050903" "20030144764" "20040036437" "20040051493" "20040136439" "20040158358" "20040193670" "20050004710" "20050015351" "20050036649" "20050049749" "20050065651" "20050069207" "20050283450" "20060094001" "20060161218" "20060181236" "20060207419" "20070022068" "20070176643" "20070208678" "20070260356" "20080040040" "20080097644" "20080100482" "20080112596" "20080133052" "20080154428" "20080319929" "20090037033" "20090043722" "20090234501" "20090287624" "20100036457" "20100081958" "20100086171" "20100166320" "20100169098" "20100222924" "20100225824" "20100286824" "20100292835" "20100299101" "20100312730" "20110016071" "20110026770" "20110035052" "20110060461" "20110067479" "20110119214" "20110119215" "20110144802" "20110158476" "20110160906" "20110196199" "20110231016" "20110296944" "20120011090" "20120045068" "20120053728" "20120109866" "20120143495" "20120150781" "20120173021" "20120197439" "20120209428" "20120209432" "20120303091" "20120308076" "20120308136" "20130019325" "20130066468" "20130073484" "20130073491" "20130073492" "20130073495" "20130073496" "20130073498" "20130073499" "20130073500" "20130096719" "20130116827" "20130151448" "20130151449" "20130151450" "20130218821" "20130251278" "20130297542").PN. OR ("20130310979" "20130325244" "20130325768" "20130325773" "20130325775" "20130325776" "20130325777" "20140012788" "20140016858" "20140027718" "20140032458" "20140032459" "20140052679" "20140081895" "20140089232" "20140122397" "20140122398" "20140156574" "20140163729" "20140222739"	US-PGPUB; USPAT; USOCR	OR	ON	2017/08/04 12:33

		"20140229411" "20140244557" "20140277718" "20140277744" "20140358284" "20140371907" "20140371912" "20150032258" "20150094850" "20150094852" "20150127149" "20150127154" "20150127155" "4468617" "4763276" "4852018" "5063603" "5092343" "5245672" "5355435" "5388186" "5408588" "5467428" "5579440" "5602761" "5638359" "5673367" "5719480" "5739811" "5841959" "5875108" "6009418" "6014653" "6259988" "6363369" "6366293" "6442451" "6458157" "6489741" "6545705" "6545708" "6546291" "6581046" "6636781" "6643627" "6697711" "6961060" "7002585" "7024276" "7324870" "7342589" "7395251" "7426501" "7668605" "7672920" "7752544" "7849030" "8015130" "8315305" "8419804" "8452448" "8467623" "8509951" "8639644" "8751042" "8793205" "8958912" "8972315" "8990133" "9008840" "9015092" "9015093" "9047568" "9070039").PN. OR ("9248569").URPN.				
S470	0	("9248569").URPN.	USPAT	OR	ON	2017/08/04 12:33
S471	118	("20020038294" "20030050903" "20030218919" "20040054964" "20040136439" "20040170330" "20040193670" "20050015351" "20050036649" "20050096539" "20050283450" "20060094001" "20060129728" "20060161218" "20070022068" "20070176643" "20070208678" "20080100482" "20080174700" "20080199072" "20080237446" "20090043722" "20090202114" "20090205764" "20090287624" "20090304231" "20100036457" "20100081958" "20100086171" "20100100482" "20100166320" "20100235310" "20100299296" "20110016071" "20110119214" "20110119215" "20110134242" "20110137843" "20110160741" "20110206122" "20120011090" "20120083982" "20120084240" "20120109866" "20120303091" "20120308076" "20120308136" "20130050574" "20130051680" "20130073484" "20130073491" "20130073492" "20130073495" "20130073496" "20130073498" "20130073499" "20130073500" "20130151450" "20130176430" "20130218821" "20130251278" "20130297539" "20130297541" "20130297542" "20130325766" "20130325768" "20130325773" "20130325774"	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33

		"20130325775" "20130325777" "20140012788" "20140016858" "20140032458" "20140032459" "20140052679" "20140064609" "20140122397" "20140122398" "20140122399" "20140156574" "20150077639" "20150127154" "20150127155" "20150181168" "5063603" "5138447" "5216752" "5272535" "5355435" "5638359" "5673367" "5875108" "6009418" "6014653" "6035389" "6418424" "6458157" "6509854" "6545705" "6545708" "6546291" "6581046" "6625317" "7580907" "7653255" "7737933" "7849030" "8000967" "8015130" "8103602" "8160354" "8200593" "8311965" "8315305" "8390707" "8416847" "8467623" "8712939").PN.				
S472	24	("20060127042" "20080152236" "20080267458" "20090028384" "20090312985" "20100073371" "20100271511" "20110063409" "20110170792" "20110242341" "20120212579" "20120236114" "20120243733" "20120256941" "20120330447" "20130022111" "20130148882" "20140119654" "20140201126" "20150217449" "20150304634" "20160009413" "6678590" "7430682").PN.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S473	2	((("20080205764") or ("20100225824")).PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S474	1	("20030216919").PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S475	3	((("7855755") or ("7720580") or ("7038577")).PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S476	2	((("6396397") or ("7123168")).PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S477	3092	(object subject target) with distance with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S478	2	S462 and S477	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S479	1058	(object subject target) near2 distance with image near3 (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S480	3751	(object subject target) with distance with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S481	2	S462 and S480	US-PGPUB; USPAT; USOCR;	OR	ON	2017/08/04 12:33

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S482	14814	S446 S447 S448 S449 S450	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S483	2	S480 and S482	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S484	17	(object subject target) near2 distance with image near3 (contrast sharpness ((disk circle) near3 (blur confusion indistinctness))) and (adaptive near3 (speed velocity cruise))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S485	4	("20100033619" "20080055424" "20040227814" "20090174809").PN.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S486	4	("20110170792" "20150217449" "20160009413" "6678590").PN.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S487	7051	(object subject target) with detect\$3 with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S488	143	(object subject target) with detect\$3 with (present presence) with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S489	11	("8536667" "20150341578" "6618093" "20090115875" "20140098267" "20110032386" "3351763" "20120154624" "6657378" "9041851" "9332201").PN. or ("20090115875" "20110032386" "20120154624" "20140098267" "3351763" "6618093" "6657378" "9041851").PN.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S490	2260	382/104-105.ccls.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S491	816	S490 and contrast	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S492	201	S490 and contrast with (object obstacle)	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S493	3	S490 and contrast with (object obstacle) with (present presence)	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S494	7	("20100027863" "5410250" "5760902" "6389169" "6801655" "6934415").PN. OR ("8542875").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/08/04 12:33
S495	38	("20020056806" "20040179099" "20040264763" "20060023074" "20060028542" "20060072020"	US-PGPUB; USPAT; USOCR	OR	ON	2017/08/04 12:33

		"20060081778" "20070064976" "20070165910" "20080027591" "20080071492" "20090140887" "20090226033" "20090271054" "20090276105" "20100039110" "20100045666" "20100172542" "3781111" "5317689" "5467072" "5793310" "5867536" "6859731" "6889786" "7016783" "7337650" "7647180" "7703679").PN. OR ("8108147").URPN.				
S496	4	((("20150338204") or ("20150339826") or ("20140277718") or ("20150350614"))).PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S497	2	((("8095313") or ("8244458"))).PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S498	706	uav and ((auto automatic\$4 autonomous) with (land landing))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S499	67	uav and ((auto automatic\$4 autonomous) with (land landing) with (camera image video))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S500	90	uav and ((auto automatic\$4 autonomous) with (land landing) with (camera image video))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S501	68	mobileye and distance and landing	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S502	68	mobileye and distance and landing and contrast	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S503	1	("7113867").PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S504	1	("20080266396").PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S505	1	("6704621").PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S506	4	("20110170792" "20150217449" "20160009413" "6678590").PN.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S507	2	((("20120143808") or ("20090157233"))).PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S508	875	image and (high adj pass adj filter\$4) with contrast	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S509	194	image and (high adj pass adj filter\$4) with contrast with (detect\$4 calculat\$4)	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S510	462	"348".clas. and rocket	US-PGPUB;	OR	ON	2017/08/04

			USPAT; USOCR; DERWENT			12:33
S511	55	"348".clas. and rocket and guidance	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/08/04 12:33
S512	2	"US 20160044257"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/08/04 12:33
S513	335	chriss near3 yoder	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S514	2	"US 20160004923"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/08/04 12:33
S515	1	("20160059962").PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S516	1	("20140263823").PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S517	1	("20160018822").PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S518	1	("7898130").PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S519	1	("8378881").PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S520	1	("8931730").PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S521	2	((("9164506") or ("9280038"))).PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S522	23	("20080054158" "20090157233" "20090187299" "20100004802" "20100250022" "20110141287" "20110304737" "20120143808" "20120154579" "20120200703" "20120287274" "20120307042" "20130085643" "20130176423" "20140049643" "7970507").PN. OR ("9164506").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/08/04 12:33
S523	2	"US 20160004923"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/08/04 12:33
S524	1	("20140307117").PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S525	2792	B60W30/08.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S526	4746	B60W30/09.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2017/08/04 12:33

			DERWENT; IBM_TDB			
S527	1684	B60W30/14.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S528	6931	B60W30/16.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S529	759	B60W30/17.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S530	142	("20050096539" "20070022068" "20080174700" "20100086171" "20100299296" "20120011090" "20120083982" "20130073492" "20130325774" "20140032458" "20150127154" "6458157" "6581046" "7653255" "20110063409" "6678590" "20050015351" "20100036457" "20110206122" "20120308076" "20130050574" "20130073499" "20140064609" "20140122399" "5355435" "6009418" "6014653" "6545708" "6546291" "7737933" "8000967" "8200593" "20110170792" "20110242341" "20030218919" "20050283450" "20070176643" "20070208678" "20080199072" "20110016071" "20110119214" "20110137843" "20130073498" "20130297539" "20130325766" "20130325768" "5138447" "5638359" "6035389" "8015130" "8315305" "20120236114" "20120330447" "20140119654" "20040136439" "20100100482" "20100166320" "20100235310" "20120308136" "20130073484" "20130073491" "20130073496" "20130151450" "20130325775" "20130325777" "20140012788" "20140016858" "5063603" "7849030" "8390707" "8712939" "20100073371" "20120256941" "20160009413" "7430682" "20080237446" "20090287624" "20130073495" "20130297541" "20140032459" "20140122397" "5272535" "5673367" "6545705" "6625317")	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33

		"8103602" "8160354" "20080267458" "20090028384" "20130148882" "20020038294" "20040193670" "20050036649" "20090202114" "20090205764" "20090304231" "20120109866" "20130218821" "20140052679" "20140156574" "5216752" "5875108" "6509854" "8416847" "8467623" "20060127042" "20100271511" "20120243733" "20150304634" "20040054964" "20040170330" "20060094001" "20060129728" "20060161218" "20080100482" "20100081958" "20110134242" "20120303091" "20130051680" "20130073500" "20130176430" "20130297542" "20130325773" "20140122398" "20150077639" "20150181168" "7580907" "8311965" "20120212579" "20130022111" "20150217449" "20030050903" "20090043722" "20110119215" "20110160741" "20120084240" "20130251278" "20150127155" "6418424" "20080152236" "20090312985" "20140201126").PN.				
S531	51	((Filip) near2 (Piekniewski)).INV.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S532	31	((Vadim) near2 (Polonichko)).INV.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S533	135	((Eugene) near2 (Izhikevich)).INV.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S534	1	("5831669").PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S535	1	subaru.as. and driver near3 assist and (camera imaging (image adj (sensor captur\$4)))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S536	11	subaru.as.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S537	43	subaru.in.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S538	3	subaru and driver near3 assist and (camera imaging (image adj (sensor captur\$4)))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S539	8	("20080152236" "20080267458" "20090028384" "20090312985" "20120330447" "20140119654" "20140201126" "20150304634").PN.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S540	0	ultrasonic with lidar with IR with contrast	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S541	2	ultrasonic with lidar with (contrast sharpness)	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S542	7	("2016/0004923").URPN.	USPAT	OR	ON	2017/08/04 12:33
S543	187	("20020038294" "20020158599" "20020169733" "20020198854" "20030023347" "20030050903"	US-PGPUB; USPAT; USOCR	OR	ON	2017/08/04 12:33

"20030144764"	"20040036437"
"20040051493"	"20040136439"
"20040158358"	"20040193670"
"20050004710"	"20050015351"
"20050036649"	"20050049749"
"20050065651"	"20050069207"
"20050283450"	"20060094001"
"20060161218"	"20060181236"
"20060207419"	"20070022068"
"20070176643"	"20070208678"
"20070260356"	"20080040040"
"20080097644"	"20080100482"
"20080112596"	"20080133052"
"20080154428"	"20080319929"
"20090037033"	"20090043722"
"20090234501"	"20090287624"
"20100036457"	"20100081958"
"20100086171"	"20100166320"
"20100169098"	"20100222924"
"20100225824"	"20100286824"
"20100292835"	"20100299101"
"20100312730"	"20110016071"
"20110026770"	"20110035052"
"20110060461"	"20110067479"
"20110119214"	"20110119215"
"20110144802"	"20110158476"
"20110160906"	"20110196199"
"20110231016"	"20110296944"
"20120011090"	"20120045068"
"20120053728"	"20120109866"
"20120143495"	"20120150781"
"20120173021"	"20120197439"
"20120209428"	"20120209432"
"20120303091"	"20120308076"
"20120308136"	"20130019325"
"20130066468"	"20130073484"
"20130073491"	"20130073492"
"20130073495"	"20130073496"
"20130073498"	"20130073499"
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"20130151449"	"20130151450"
"20130218821"	"20130251278"
"20130297542")	PN. OR
("20130310979"	"20130325244"
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"20130325775"	"20130325776"
"20130325777"	"20140012788"
"20140016858"	"20140027718"
"20140032458"	"20140032459"
"20140052679"	"20140081895"
"20140089232"	"20140122397"
"20140122398"	"20140156574"
"20140163729"	"20140222739"
"20140229411"	"20140244557"
"20140277718"	"20140277744"
"20140358284"	"20140371907"
"20140371912"	"20150032258"
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S544	0	("9248569").URPN.	USPAT	OR	ON	2017/08/04 12:33
S545	118	("20020038294" "20030050903" "20030218919" "20040054964" "20040136439" "20040170330" "20040193670" "20050015351" "20050036649" "20050096539" "20050283450" "20060094001" "20060129728" "20060161218" "20070022068" "20070176643" "20070208678" "20080100482" "20080174700" "20080199072" "20080237446" "20090043722" "20090202114" "20090205764" "20090287624" "20090304231" "20100036457" "20100081958" "20100086171" "20100100482" "20100166320" "20100235310" "20100299296" "20110016071" "20110119214" "20110119215" "20110134242" "20110137843" "20110160741" "20110206122" "20120011090" "20120083982" "20120084240" "20120109866" "20120303091" "20120308076" "20120308136" "20130050574" "20130051680" "20130073484" "20130073491" "20130073492" "20130073495" "20130073496" "20130073498" "20130073499" "20130073500" "20130151450" "20130176430" "20130218821" "20130251278" "20130297539" "20130297541" "20130297542" "20130325766" "20130325768" "20130325773" "20130325774" "20130325775" "20130325777" "20140012788" "20140016858" "20140032458" "20140032459" "20140052679" "20140064609" "20140122397" "20140122398" "20140122399" "20140156574" "20150077639" "20150127154" "20150127155" "20150181168" "5063603" "5138447" "5216752" "5272535" "5355435" "5638359"	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33

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S546	24	("20060127042" "20080152236" "20080267458" "20090028384" "20090312985" "20100073371" "20100271511" "20110063409" "20110170792" "20110242341" "20120212579" "20120236114" "20120243733" "20120256941" "20120330447" "20130022111" "20130148882" "20140119654" "20140201126" "20150217449" "20150304634" "20160009413" "6678590" "7430682").PN.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S547	2	((("20080205764") or ("20100225824"))).PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S548	1	("20030216919").PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S549	3	((("7855755") or ("7720580") or ("7038577"))).PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S550	2	((("6396397") or ("7123168"))).PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S551	3092	(object subject target) with distance with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S552	1058	(object subject target) near2 distance with image near3 (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S553	14814	S525 S526 S527 S528 S529	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S554	17	(object subject target) near2 distance with image near3 (contrast sharpness ((disk circle) near3 (blur confusion indistinctness))) and (adaptive near3 (speed velocity cruise))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S555	4	("20100033619" "20080055424" "20040227814" "20090174809").PN.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S556	4	("20110170792" "20150217449" "20160009413" "6678590").PN.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S557	7051	(object subject target) with detect\$3 with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S558	143	(object subject target) with detect\$3	US-PGPUB;	OR	ON	2017/08/04

		with (present presence) with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	USPAT			12:33
S559	11	("8536667" "20150341578" "6618093" "20090115875" "20140098267" "20110032386" "3351763" "20120154624" "6657378" "9041851" "9332201").PN. or ("20090115875" "20110032386" "20120154624" "20140098267" "3351763" "6618093" "6657378" "9041851").PN.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S560	2792	B60W30/08.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S561	4746	B60W30/09.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S562	1684	B60W30/14.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S563	6931	B60W30/16.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S564	759	B60W30/17.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S565	3243	S560 S561 S562 S563 S564	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S566	4	S565 and contrast with (object obstacle) with (present presence)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S567	3751	(object subject target) with distance with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2017/08/04 12:33

			EPO; JPO; DERWENT; IBM_TDB			
S568	40	(object subject target) with (present presence) with distance with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S569	8	("20060188168" "20120130566" "20140379179" "7016783" "7113867" "8108147" "8542875" "9150220").PN.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S570	462	"348".clas. and rocket	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/08/04 12:33
S571	55	"348".clas. and rocket and guidance	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/08/04 12:33
S572	2	"US 20160044257"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/08/04 12:33
S573	335	chriss near3 yoder	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S574	2	"US 20160004923"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/08/04 12:33
S575	2	((("9164506") or ("9280038"))).PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S576	23	("20080054158" "20090157233" "20090187299" "20100004802" "20100250022" "20110141287" "20110304737" "20120143808" "20120154579" "20120200703" "20120287274" "20120307042" "20130085643" "20130176423" "20140049643" "7970507").PN. OR ("9164506").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/08/04 12:33
S577	2	"US 20160004923"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/08/04 12:33
S578	2792	B60W30/08.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S579	4746	B60W30/09.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2017/08/04 12:33

			IBM_TDB			
S580	1684	B60W30/14.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S581	6931	B60W30/16.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S582	759	B60W30/17.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S583	142	("20050096539" "20070022068" "20080174700" "20100086171" "20100299296" "20120011090" "20120083982" "20130073492" "20130325774" "20140032458" "20150127154" "6458157" "6581046" "7653255" "20110063409" "6678590" "20050015351" "20100036457" "20110206122" "20120308076" "20130050574" "20130073499" "20140064609" "20140122399" "5355435" "6009418" "6014653" "6545708" "6546291" "7737933" "8000967" "8200593" "20110170792" "20110242341" "20030218919" "20050283450" "20070176643" "20070208678" "20080199072" "20110016071" "20110119214" "20110137843" "20130073498" "20130297539" "20130325766" "20130325768" "5138447" "5638359" "6035389" "8015130" "8315305" "20120236114" "20120330447" "20140119654" "20040136439" "20100100482" "20100166320" "20100235310" "20120308136" "20130073484" "20130073491" "20130073496" "20130151450" "20130325775" "20130325777" "20140012788" "20140016858" "5063603" "7849030" "8390707" "8712939" "20100073371" "20120256941" "20160009413" "7430682" "20080237446" "20090287624" "20130073495" "20130297541" "20140032459" "20140122397" "5272535" "5673367" "6545705" "6625317" "8103602" "8160354")	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33

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S584	51	((Filip) near2 (Piekniowski)).INV.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S585	31	((Vadim) near2 (Polonichko)).INV.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S586	135	((Eugene) near2 (Izhikevich)).INV.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S587	1	subaru.as. and driver near3 assist and (camera imaging (image adj (sensor captur\$4)))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S588	11	subaru.as.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S589	43	subaru.in.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S590	3	subaru and driver near3 assist and (camera imaging (image adj (sensor captur\$4)))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S591	27	("20040167717" "20110190972" "20110251768" "20120166032" "20120226392" "20130226402" "20130282271" "20130308828" "20140005907" "4970653" "5684697" "6370471" "6744380" "7231288" "7257478" "7260465" "7831368" "8170739" "8355539" "8504233" "8543277" "8593272" "8676466" "8706394" "8788134").PN. OR ("9150220").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/08/04 12:33
S592	154	S584 S585 S586	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S593	3243	S578 S579 S580 S581 S582	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S594	89	S592 and contrast	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33

S595	40	S592 and contrast and actuator	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S596	8	("20080152236" "20080267458" "20090028384" "20090312985" "20120330447" "20140119654" "20140201126" "20150304634").PN.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S597	0	ultrasonic with lidar with IR with contrast	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S598	2	ultrasonic with lidar with (contrast sharpness)	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S599	7	("2016/0004923").URPN.	USPAT	OR	ON	2017/08/04 12:33
S600	187	("20020038294" "20020158599" "20020169733" "20020198854" "20030023347" "20030050903" "20030144764" "20040036437" "20040051493" "20040136439" "20040158358" "20040193670" "20050004710" "20050015351" "20050036649" "20050049749" "20050065651" "20050069207" "20050283450" "20060094001" "20060161218" "20060181236" "20060207419" "20070022068" "20070176643" "20070208678" "20070260356" "20080040040" "20080097644" "20080100482" "20080112596" "20080133052" "20080154428" "20080319929" "20090037033" "20090043722" "20090234501" "20090287624" "20100036457" "20100081958" "20100086171" "20100166320" "20100169098" "20100222924" "20100225824" "20100286824" "20100292835" "20100299101" "20100312730" "20110016071" "20110026770" "20110035052" "20110060461" "20110067479" "20110119214" "20110119215" "20110144802" "20110158476" "20110160906" "20110196199" "20110231016" "20110296944" "20120011090" "20120045068" "20120053728" "20120109866" "20120143495" "20120150781" "20120173021" "20120197439" "20120209428" "20120209432" "20120303091" "20120308076" "20120308136" "20130019325" "20130066468" "20130073484" "20130073491" "20130073492" "20130073495" "20130073496" "20130073498" "20130073499" "20130073500" "20130096719" "20130116827" "20130151448" "20130151449" "20130151450" "20130218821" "20130251278" "20130297542").PN. OR ("20130310979" "20130325244" "20130325768" "20130325773" "20130325775" "20130325776"	US-PGPUB; USPAT; USOCR	OR	ON	2017/08/04 12:33

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S601	0	("9248569").URPN.	USPAT	OR	ON	2017/08/04 12:33
S602	118	("20020038294" "20030050903" "20030218919" "20040054964" "20040136439" "20040170330" "20040193670" "20050015351" "20050036649" "20050096539" "20050283450" "20060094001" "20060129728" "20060161218" "20070022068" "20070176643" "20070208678" "20080100482" "20080174700" "20080199072" "20080237446" "20090043722" "20090202114" "20090205764" "20090287624" "20090304231" "20100036457" "20100081958" "20100086171" "20100100482" "20100166320" "20100235310" "20100299296" "20110016071" "20110119214" "20110119215" "20110134242" "20110137843" "20110160741" "20110206122" "20120011090" "20120083982" "20120084240" "20120109866" "20120303091" "20120308076" "20120308136" "20130050574" "20130051680" "20130073484" "20130073491" "20130073492" "20130073495" "20130073496"	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33

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S603	24	("20060127042" "20080152236" "20080267458" "20090028384" "20090312985" "20100073371" "20100271511" "20110063409" "20110170792" "20110242341" "20120212579" "20120236114" "20120243733" "20120256941" "20120330447" "20130022111" "20130148882" "20140119654" "20140201126" "20150217449" "20150304634" "20160009413" "6678590" "7430682").PN.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S604	2	((("20080205764") or ("20100225824")).PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S605	3	((("7855755") or ("7720580") or ("7038577")).PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S606	2	((("6396397") or ("7123168")).PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S607	3092	(object subject target) with distance with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S608	2	S593 and S607	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S609	1058	(object subject target) near2 distance with image near3 (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S610	3751	(object subject target) with distance with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2017/08/04 12:33

			IBM_TDB			
S611	2	S593 and S610	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S612	14814	S578 S579 S580 S581 S582	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S613	2	S610 and S612	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S614	17	(object subject target) near2 distance with image near3 (contrast sharpness ((disk circle) near3 (blur confusion indistinctness))) and (adaptive near3 (speed velocity cruise))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S615	4	("20100033619" "20080055424" "20040227814" "20090174809").PN.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S616	4	("20110170792" "20150217449" "20160009413" "6678590").PN.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S617	7051	(object subject target) with detect\$3 with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S618	143	(object subject target) with detect\$3 with (present presence) with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S619	11	("8536667" "20150341578" "6618093" "20090115875" "20140098267" "20110032386" "3351763" "20120154624" "6657378" "9041851" "9332201").PN. or ("20090115875" "20110032386" "20120154624" "20140098267" "3351763" "6618093" "6657378" "9041851").PN.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S620	2260	382/104-105.ccls.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S621	816	S620 and contrast	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S622	201	S620 and contrast with (object obstacle)	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S623	3	S620 and contrast with (object obstacle) with (present presence)	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S624	7	("20100027863" "5410250" "5760902" "6389169" "6801655"	US-PGPUB; USPAT;	OR	ON	2017/08/04 12:33

		"6934415").PN. OR ("8542875").URPN.	USOCR			
S625	38	("20020056806" "20040179099" "20040264763" "20060023074" "20060028542" "20060072020" "20060081778" "20070064976" "20070165910" "20080027591" "20080071492" "20090140887" "20090226033" "20090271054" "20090276105" "20100039110" "20100045666" "20100172542" "3781111" "5317689" "5467072" "5793310" "5867536" "6859731" "6889786" "7016783" "7337650" "7647180" "7703679").PN. OR ("8108147").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/08/04 12:33
S626	4	((("20150338204") or ("20150339826") or ("20140277718") or ("20150350614")).PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S627	2	((("8095313") or ("8244458")).PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S628	706	uav and ((auto automatic\$4 autonomous) with (land landing))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S629	67	uav and ((auto automatic\$4 autonomous) with (land landing) with (camera image video))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S630	90	uav and ((auto automatic\$4 autonomous) with (land landing) with (camera image video))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S631	68	mobileye and distance and landing	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S632	68	mobileye and distance and landing and contrast	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S633	4	("20110170792" "20150217449" "20160009413" "6678590").PN.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S634	2	((("20120143808") or ("20090157233")).PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S635	875	image and (high adj pass adj filter\$4) with contrast	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S636	194	image and (high adj pass adj filter\$4) with contrast with (detect\$4 calculat\$4)	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S637	462	"348".clas. and rocket	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/08/04 12:33

S638	55	"348".clas. and rocket and guidance	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/08/04 12:33
S639	2	"US 20160044257"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/08/04 12:33
S640	335	chriss near3 yoder	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S641	2	"US 20160004923"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/08/04 12:33
S642	2	((("9164506") or ("9280038"))).PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S643	23	("20080054158" "20090157233" "20090187299" "20100004802" "20100250022" "20110141287" "20110304737" "20120143808" "20120154579" "20120200703" "20120287274" "20120307042" "20130085643" "20130176423" "20140049643" "7970507").PN. OR ("9164506").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/08/04 12:33
S644	2	"US 20160004923"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/08/04 12:33
S645	2792	B60W30/08.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S646	4746	B60W30/09.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S647	1684	B60W30/14.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S648	6931	B60W30/16.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S649	759	B60W30/17.cpc.	US-PGPUB; USPAT; USOCR;	OR	ON	2017/08/04 12:33

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S650	142	("20050096539" "20070022068" "20080174700" "20100086171" "20100299296" "20120011090" "20120083982" "20130073492" "20130325774" "20140032458" "20150127154" "6458157" "6581046" "7653255" "20110063409" "6678590" "20050015351" "20100036457" "20110206122" "20120308076" "20130050574" "20130073499" "20140064609" "20140122399" "5355435" "6009418" "6014653" "6545708" "6546291" "7737933" "8000967" "8200593" "20110170792" "20110242341" "20030218919" "20050283450" "20070176643" "20070208678" "20080199072" "20110016071" "20110119214" "20110137843" "20130073498" "20130297539" "20130325766" "20130325768" "5138447" "5638359" "6035389" "8015130" "8315305" "20120236114" "20120330447" "20140119654" "20040136439" "20100100482" "20100166320" "20100235310" "20120308136" "20130073484" "20130073491" "20130073496" "20130151450" "20130325775" "20130325777" "20140012788" "20140016858" "5063603" "7849030" "8390707" "8712939" "20100073371" "20120256941" "20160009413" "7430682" "20080237446" "20090287624" "20130073495" "20130297541" "20140032459" "20140122397" "5272535" "5673367" "6545705" "6625317" "8103602" "8160354" "20080267458" "20090028384" "20130148882" "20020038294" "20040193670" "20050036649" "20090202114" "20090205764" "20090304231" "20120109866" "20130218821" "20140052679" "20140156574" "5216752" "5875108" "6509854" "8416847" "8467623" "20060127042" "20100271511" "20120243733" "20150304634" "20040054964" "20040170330" "20060094001" "20060129728" "20060161218" "20080100482" "20100081958" "20110134242" "20120303091" "20130051680" "20130073500" "20130176430" "20130297542" "20130325773" "20140122398" "20150077639" "20150181168"	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33

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S651	51	((Filip) near2 (Piekniewski)).INV.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S652	31	((Vadim) near2 (Polonichko)).INV.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S653	135	((Eugene) near2 (Izhikevich)).INV.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S654	1	("5831669").PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S655	1	subaru.as. and driver near3 assist and (camera imaging (image adj (sensor captur\$4)))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S656	11	subaru.as.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S657	43	subaru.in.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S658	3	subaru and driver near3 assist and (camera imaging (image adj (sensor captur\$4)))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S659	8	("20080152236" "20080267458" "20090028384" "20090312985" "20120330447" "20140119654" "20140201126" "20150304634").PN.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S660	0	ultrasonic with lidar with IR with contrast	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S661	2	ultrasonic with lidar with (contrast sharpness)	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S662	7	("2016/0004923").URPN.	USPAT	OR	ON	2017/08/04 12:33
S663	187	("20020038294" "20020158599" "20020169733" "20020198854" "20030023347" "20030050903" "20030144764" "20040036437" "20040051493" "20040136439" "20040158358" "20040193670" "20050004710" "20050015351" "20050036649" "20050049749" "20050065651" "20050069207" "20050283450" "20060094001" "20060161218" "20060181236" "20060207419" "20070022068" "20070176643" "20070208678" "20070260356" "20080040040" "20080097644" "20080100482" "20080112596" "20080133052" "20080154428" "20080319929" "20090037033" "20090043722" "20090234501" "20090287624" "20100036457" "20100081958" "20100086171" "20100166320" "20100169098" "20100222924" "20100225824" "20100286824"	US-PGPUB; USPAT; USOCR	OR	ON	2017/08/04 12:33

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		"20110119214" "20110119215"				
		"20110144802" "20110158476"				
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		"20120011090" "20120045068"				
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		"8990133" "9008840" "9015092"				
		"9015093" "9047568"				
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S666	24	("20060127042" "20080152236" "20080267458" "20090028384" "20090312985" "20100073371" "20100271511" "20110063409" "20110170792" "20110242341" "20120212579" "20120236114" "20120243733" "20120256941" "20120330447" "20130022111" "20130148882" "20140119654" "20140201126" "20150217449"	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33

		"20150304634" "20160009413" "6678590" "7430682").PN.				
S667	2	((("20080205764") or ("20100225824")).PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S668	1	("20030216919").PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S669	3	((("7855755") or ("7720580") or ("7038577")).PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S670	2	((("6396397") or ("7123168")).PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S671	3092	(object subject target) with distance with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S672	1058	(object subject target) near2 distance with image near3 (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S673	14814	S645 S646 S647 S648 S649	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S674	17	(object subject target) near2 distance with image near3 (contrast sharpness ((disk circle) near3 (blur confusion indistinctness))) and (adaptive near3 (speed velocity cruise))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S675	4	("20100033619" "20080055424" "20040227814" "20090174809").PN.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S676	4	("20110170792" "20150217449" "20160009413" "6678590").PN.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S677	7051	(object subject target) with detect\$3 with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S678	143	(object subject target) with detect\$3 with (present presence) with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S679	11	("8536667" "20150341578" "6618093" "20090115875" "20140098267" "20110032386" "3351763" "20120154624" "6657378" "9041851" "9332201").PN. or ("20090115875" "20110032386" "20120154624" "20140098267" "3351763" "6618093" "6657378" "9041851").PN.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S680	2792	B60W30/08.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33

S681	4746	B60W30/09.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S682	1684	B60W30/14.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S683	6931	B60W30/16.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S684	759	B60W30/17.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S685	3243	S680 S681 S682 S683 S684	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S686	4	S685 and contrast with (object obstacle) with (present presence)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S687	3751	(object subject target) with distance with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S688	40	(object subject target) with (present presence) with distance with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/04 12:33
S689	118	("20020038294" "20030050903" "20030218919" "20040054964" "20040136439" "20040170330" "20040193670" "20050015351" "20050036649" "20050096539" "20050283450" "20060094001" "20060129728" "20060161218" "20070022068" "20070176643" "20070208678" "20080100482" "20080174700" "20080199072"	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33

		"20080237446" "20090043722" "20090202114" "20090205764" "20090287624" "20090304231" "20100036457" "20100081958" "20100086171" "20100100482" "20100166320" "20100235310" "20100299296" "20110016071" "20110119214" "20110119215" "20110134242" "20110137843" "20110160741" "20110206122" "20120011090" "20120083982" "20120084240" "20120109866" "20120303091" "20120308076" "20120308136" "20130050574" "20130051680" "20130073484" "20130073491" "20130073492" "20130073495" "20130073496" "20130073498" "20130073499" "20130073500" "20130151450" "20130176430" "20130218821" "20130251278" "20130297539" "20130297541" "20130297542" "20130325766" "20130325768" "20130325773" "20130325774" "20130325775" "20130325777" "20140012788" "20140016858" "20140032458" "20140032459" "20140052679" "20140064609" "20140122397" "20140122398" "20140122399" "20140156574" "20150077639" "20150127154" "20150127155" "20150181168" "5063603" "5138447" "5216752" "5272535" "5355435" "5638359" "5673367" "5875108" "6009418" "6014653" "6035389" "6418424" "6458157" "6509854" "6545705" "6545708" "6546291" "6581046" "6625317" "7580907" "7653255" "7737933" "7849030" "8000967" "8015130" "8103602" "8160354" "8200593" "8311965" "8315305" "8390707" "8416847" "8467623" "8712939").PN.				
S690	1	("7430682").PN.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S691	24	("20060127042" "20080152236" "20080267458" "20090028384" "20090312985" "20100073371" "20100271511" "20110063409" "20110170792" "20110242341" "20120212579" "20120236114" "20120243733" "20120256941" "20120330447" "20130022111" "20130148882" "20140119654" "20140201126" "20150217449" "20150304634" "20160009413" "6678590" "7430682").PN.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S692	64	(US-20130038788-\$ or US- 20120224031-\$ or US-20120162453-\$ or US-20120147151-\$ or US- 20120070141-\$ or US-20120062781-\$ or US-20110176035-\$ or US-	US-PGPUB; USPAT; JPO	OR	ON	2017/08/04 12:33

		20110019294-\$ or US-20110001868-\$ or US-20100259670-\$ or US-20100245882-\$ or US-20100209097-\$ or US-20100150541-\$ or US-20100103311-\$ or US-20100060748-\$ or US-20090201595-\$ or US-20090015704-\$ or US-20080309815-\$ or US-20070273782-\$ or US-20070024740-\$ or US-20060082657-\$ or US-20020197070-\$ or US-20020118292-\$ or US-20020080242-\$ or US-20080079849-\$ or US-20070172230-\$).did. or (US-20070035656-\$ or US-20040042782-\$ or US-20120113288-\$).did. or (US-8289436-\$ or US-8075201-\$ or US-7918614-\$ or US-7898594-\$ or US-7885022-\$ or US-7880797-\$ or US-7800680-\$ or US-7760266-\$ or US-7605860-\$ or US-6963365-\$ or US-6603930-\$ or US-6567126-\$ or US-6318912-\$ or US-6285400-\$ or US-6072529-\$ or US-5701205-\$ or US-5698841-\$ or US-5642223-\$ or US-5592331-\$ or US-5194988-\$ or US-5044728-\$ or US-4229094-\$ or US-4081812-\$ or US-7268805-\$ or US-8400724-\$ or US-8287197-\$).did. or (US-7864242-\$ or US-6985177-\$ or US-5640630-\$).did. or (JP-07170433-\$ or JP-04253042-\$ or JP-04253041-\$ or JP-61153626-\$ or JP-59214836-\$ or JP-58028729-\$).did.				
S693	1	("7433128").PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S694	534	(382/153).CCLS.	US-PGPUB; USPAT	OR	OFF	2017/08/04 12:33
S695	73	S694 and tilt	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S696	1470	B25J9/1697.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S697	451	B25J9/1676.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S698	1463	G06K9/00664.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S699	1755	G06K9/00791.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S700	515	G06T7/004.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S701	32	S694 and ((tilt\$4 angle angled angling) with (lens))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S702	14	("20040204792" "20040244138" "20070239315" "20080039974" "20090118890" "20120083982" "20130245937" "20140240492" "20150157182" "20150168954" "20150362919" "20160104044" "6338013" "9002511").PN.	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S703	4	S702 and ((tilt\$4 angle angled angling) with (lens))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33

S704	5417	S696 S697 S698 S699 S700	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S705	111	S704 and ((tilt\$4) with (optic\$4 lens))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S706	3	S685 and ((tilt\$4) with (optic\$4 lens))	US-PGPUB; USPAT	OR	ON	2017/08/04 12:33
S707	86	("4476419" "4595866" "4636643" "4652745" "4676638" "4703237" "4798956" "4859867" "4867561" "4871917" "4960996" "4973844" "5262640" "5278425" "5313072" "5386111" "5414257" "5537003" "5661303" "5898183" "5923027" "6078056" "6097024").PN. OR ("6207967").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/08/04 12:33
S708	62	("20020056805" "20020121972" "4355271" "4481450" "4620141" "4652745" "4798956" "4859867" "4867561" "4871917" "4916307" "4916374" "4930742" "4956591" "4960996" "4973844" "4987354" "5059877" "5276389" "5306992" "5313072" "5336980" "5386111" "5483346" "5498866" "5581240" "5598146" "5659294" "5661303" "5663542" "5703568" "5796094" "5796106" "5811793" "5818600" "5821863" "5872437" "5877897" "5923027" "6008486" "6097024" "6118383" "6130421" "6207967" "6302545" "6313454" "6320176" "6323477" "6326613" "6349782" "6353392" "6396397" "6573490" "RE35762").PN. OR ("6861636").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/08/04 12:33
S709	132	("20010042822" "4355271" "4620141" "4652745" "4798956" "4859867" "4867561" "4871917" "4916307" "4916374" "4930742" "4956591" "4960996" "4973844" "4987354" "5276389" "5306992" "5313072" "5336980" "5386111" "5483346" "5498866" "5581240" "5598146" "5659294" "5661303" "5663542" "5703568" "5796094" "5796106" "5811793" "5818600" "5821863" "5872437" "5923027" "6008486" "6097024" "6118383" "6207967" "6313454" "6320176" "6323477" "6326613" "6353392" "6396397" "RE35762").PN. OR ("6617564").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/08/04 12:33
S710	84	S709 not S708	US-PGPUB; USPAT; USOCR	OR	ON	2017/08/04 12:33
S711	1	(13/382405).APP.	US-PGPUB; USOCR	OR	ON	2017/08/04 12:33
S712	4	("2012/0153154").URPN.	USPAT	OR	ON	2017/08/04 12:33
S713	17	("20030066955" "20050063071" "20070075220" "20080265134" "20080296577" "20090085755"	US-PGPUB; USPAT; USOCR	OR	ON	2017/08/04 12:33

		"20090128629" "20120153154" "4515443" "4741605" "6452148" "6617564" "7863568").PN. OR ("8541732").URPN.				
S714	45	("20030066955" "20030201380" "20040004456" "20040164981" "20050035926" "20050063071" "20050231725" "20060163458" "20060191215" "20070075220" "20070216768" "20070268470" "20080027607" "20080185603" "20080265134" "20080296577" "20090085755" "20090128629" "20090201366" "20100208060" "20110043624" "20110253917" "20110273564" "20120026318" "20120026330" "20130235381" "4515443" "4741605" "5987152" "6331819" "6376824" "6392218" "6452148" "6555804" "6614015" "6617564" "6841767" "7208962" "7259367" "7612356" "7855353" "7863568" "8274562" "8541732" "8913132").PN. OR ("9040915").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/08/04 12:33
S715	8	("20050041123" "20050109918" "5438414" "5837994" "6320618" "6455831" "6563101" "6617564").PN. OR ("7506421").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/08/04 12:33
S716	2	("20170094173").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/08/04 14:56
S717	335	chriss near3 yoder	US-PGPUB; USPAT	OR	ON	2017/08/04 14:59
S718	1	("7375755").PN.	US-PGPUB; USPAT	OR	OFF	2017/08/04 17:59
S719	2	("20160004923").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2017/08/04 18:26
S720	118	("20020038294" "20030050903" "20030218919" "20040054964" "20040136439" "20040170330" "20040193670" "20050015351" "20050036649" "20050096539" "20050283450" "20060094001" "20060129728" "20060161218" "20070022068" "20070176643" "20070208678" "20080100482" "20080174700" "20080199072" "20080237446" "20090043722" "20090202114" "20090205764" "20090287624" "20090304231" "20100036457" "20100081958" "20100086171" "20100100482" "20100166320" "20100235310" "20100299296" "20110016071" "20110119214" "20110119215" "20110134242" "20110137843" "20110160741" "20110206122" "20120011090" "20120083982" "20120084240" "20120109866"	US-PGPUB; USPAT	OR	ON	2017/08/04 19:15

		"20120303091" "20120308076" "20120308136" "20130050574" "20130051680" "20130073484" "20130073491" "20130073492" "20130073495" "20130073496" "20130073498" "20130073499" "20130073500" "20130151450" "20130176430" "20130218821" "20130251278" "20130297539" "20130297541" "20130297542" "20130325766" "20130325768" "20130325773" "20130325774" "20130325775" "20130325777" "20140012788" "20140016858" "20140032458" "20140032459" "20140052679" "20140064609" "20140122397" "20140122398" "20140122399" "20140156574" "20150077639" "20150127154" "20150127155" "20150181168" "5063603" "5138447" "5216752" "5272535" "5355435" "5638359" "5673367" "5875108" "6009418" "6014653" "6035389" "6418424" "6458157" "6509854" "6545705" "6545708" "6546291" "6581046" "6625317" "7580907" "7653255" "7737933" "7849030" "8000967" "8015130" "8103602" "8160354" "8200593" "8311965" "8315305" "8390707" "8416847" "8467623" "8712939").PN.				
S721	24	("7430682" "20060127042" "20080152236" "20080267458" "20090028384" "20090312985" "20100073371" "20100271511" "20110063409" "20110170792" "20110242341" "20120212579" "20120236114" "20120243733" "20120256941" "20120330447" "20130022111" "20130148882" "20140119654" "20140201126" "20150217449" "20150304634" "20160009413" "6678590").PN.	US-PGPUB; USPAT	OR	ON	2017/08/04 19:15
S722	28	("6501794" "6556610" "7142602" "7447337" "20020176025" "20040233987" "20050047647" "20060088191" "20070071100" "20080043848" "20080252723" "20090096927" "20090106030" "20090141938" "20090323809" "20100080297" "20100290530" "20110002191" "20110103480" "20110222603" "20110228092" "20120057634" "20120072189" "20120162450" "20120294486" "20140241612" "20150281715" "20160003946").PN.	US-PGPUB; USPAT	OR	ON	2017/08/04 19:15
S723	43	("20020018131" "20020058353" "20040169752" "20040185597" "20050035927" "20050082461" "20060017829" "3971065" "4011016" "4238760" "4309604"	US-PGPUB; USPAT; USOCR	OR	ON	2017/08/04 20:47

		"4318115" "4613895" "4651001" "4677289" "4772335" "5397734" "5502299" "5608243" "5668596" "5739562" "5872371" "5883421" "5889315" "5899714" "5900623" "5949061" "5965875" "6043478" "6066510" "6078037" "6111300" "6150683" "6410899" "6518558" "6727521" "6731397" "6750912" "6852562" "6960757" "7339216" "7375748").PN. OR ("7602430").URPN.				
S724	1000	G01B11/026.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/05 12:45
S725	245	G01B11/0691.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/05 12:59
S726	0	("2014/0267622").URPN.	USPAT	OR	ON	2017/08/05 14:47
S727	9	("20030197931" "20130038723" "6018630" "4295153" "6687003" "20120140047" "20100246892" "20110254947" "8345144").PN.	US-PGPUB; USPAT	OR	ON	2017/08/05 14:50
S728	4	("2013/0038723").URPN.	USPAT	OR	ON	2017/08/05 15:09
S729	10	("20030197931" "20090153664" "20100246892" "20110254947" "20120140047" "20130038723" "4295153" "6018630" "6687003" "8345144").PN. OR ("9414045").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/08/05 16:34
S730	2047	G06K9/6215.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/05 17:07
S732	130	G01C3/32.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/05 17:09
S733	205	G01C3/00.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/05 17:09
S734	235	G01C3/02.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/05 17:09
S735	139	G01C3/06.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/05 17:09
S736	1448	G01C3/08.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/05 17:09
S737	0	("2009/0225330").URPN.	USPAT	OR	ON	2017/08/05 17:19
S738	0	("9513108").URPN.	USPAT	OR	ON	2017/08/05 17:59
S739	7	("20080130005" "20100085580" "20100118292" "20100289035" "4317991" "4830443" "7165849").PN. OR ("8958056").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/08/05 18:16
S740	760	B60W30/17.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/05 20:21
S741	51	((Filip) near2 (Piekniowski)).INV.	US-PGPUB; USPAT	OR	ON	2017/08/05 20:23

S742	31	((Vadim) near2 (Polonichko)).INV.	US-PGPUB; USPAT	OR	ON	2017/08/05 20:23
S743	135	((Eugene) near2 (Izhikevich)).INV.	US-PGPUB; USPAT	OR	ON	2017/08/05 20:23
S744	154	S741 S742 S743	US-PGPUB; USPAT	OR	ON	2017/08/05 20:23
S745	2803	B60W30/08.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/05 20:23
S746	4749	B60W30/09.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/05 20:23
S747	1693	B60W30/14.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/05 20:23
S748	6936	B60W30/16.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/05 20:23
S749	760	B60W30/17.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/05 20:23
S750	3243	S745 S746 S747 S748 S749	US-PGPUB; USPAT	OR	ON	2017/08/05 20:23
S751	12125	G01C3/00-32.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/05 20:43
S752	50	((("BRAIN") near3 ("CORPORATION"))).AANM.	USPAT	OR	ON	2017/08/05 20:43
S753	5488	h04n5/2258.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/05 21:20
S754	1550	G02B7/38.cpc.	US-PGPUB;	OR	ON	2017/08/05

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			21:39
S755	4787	G02B7/36.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/05 21:42
S756	2	((("6861636") or ("7019275")).PN.	US-PGPUB; USPAT	OR	OFF	2017/08/05 22:58
S757	0	("2013/0229505").URPN.	USPAT	OR	ON	2017/08/06 00:09
S777	8	("20040066499" "20070091300" "4259018" "5760905" "6485149" "6624899").PN. OR ("7701567").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/08/06 14:26
S778	10	((("7855755") or ("7720580") or ("7038577") or ("20090244361") or ("7965336") or ("7480149") or ("8542451") or ("20120019940") or ("7123168") or ("6396397")).PN.	US-PGPUB; USPAT	OR	OFF	2017/08/06 16:18
S779	1	("20150338204").PN.	US-PGPUB; USPAT	OR	OFF	2017/08/06 17:58
S786	10438	H04N5/225.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/06 19:07
S787	2327	G06K9/00825.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/06 19:07
S788	17555	G06T7/50-596.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/06 19:07
S789	2019	G06T7/50.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/08/06 19:07
S790	1020	G06T7/0051.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2017/08/06 19:07

			DERWENT; IBM_TDB			
S830	4889	B60W30/08.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/23 03:29
S831	8818	B60W30/09.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/23 03:29
S832	3105	B60W30/14.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/23 03:29
S833	9346	B60W30/16.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/23 03:29
S834	1002	B60W30/17.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/23 03:29
S836	14976	H04N5/225.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/23 03:30
S837	9932	h04n5/2258.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/23 03:30
S838	15158	G01C3/00-32.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/23 03:30
S845	443	G06T7/0051.cpc.	US-PGPUB; USPAT; USOCR;	OR	ON	2019/06/23 03:35

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S846	30459	G06T7/50-596.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/23 03:36
S847	1975	G02B7/38.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/23 03:36
S848	5647	G02B7/36.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/23 03:36
S850	5641	G01B11/026.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/23 03:39
S851	1554	G01B11/0691.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/23 03:39
S852	6188	G06K9/00664.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/23 03:39
S853	11980	G06K9/00791.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/23 03:39
S854	9957	G06K9/6215.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/23 03:39
S855	4384	G06K9/00825.cpc.	US-PGPUB;	OR	ON	2019/06/23

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			03:39
S856	118478	S830 S831 S832 S833 S834 S837 S838 S845 S846 S847 S848 S850 S851 S852 S853 S854 S855	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/23 03:39
S857	29148	S856 and (obstacle target)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/23 03:40
S858	2	("20180278820").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2019/06/23 03:42
S859	1	("9848112").PN.	US-PGPUB; USPAT	OR	OFF	2019/06/23 03:43
S860	8	("20060188168" "20120130566" "20140379179" "7016783" "7113867" "8108147" "8542875" "9150220").PN.	US-PGPUB; USPAT	OR	ON	2019/06/23 03:52
S861	150	("20050096539" "20070022068" "20080174700" "20100086171" "20100299296" "20120011090" "20120083982" "20130073492" "20130325774" "20140032458" "20150127154" "6458157" "6581046" "7653255" "20110063409" "6678590" "8108147" "8542875" "20050015351" "20100036457" "20110206122" "20120308076" "20130050574" "20130073499" "20140064609" "20140122399" "5355435" "6009418" "6014653" "6545708" "6546291" "7737933" "8000967" "8200593" "20110170792" "20110242341" "20030218919" "20050283450" "20070176643" "20070208678" "20080199072" "20110016071" "20110119214" "20110137843" "20130073498" "20130297539" "20130325766" "20130325768" "5138447" "5638359" "6035389" "8015130" "8315305" "20120236114" "20120330447" "20140119654" "20140379179" "7016783" "9150220" "20040136439" "20100100482" "20100166320" "20100235310" "20120308136" "20130073484" "20130073491" "20130073496"	US-PGPUB; USPAT	OR	ON	2019/06/23 04:00

		"20130151450" "20130325775" "20130325777" "20140012788" "20140016858" "5063603" "7849030" "8390707" "8712939" "20100073371" "20120256941" "20160009413" "7430682" "20080237446" "20090287624" "20130073495" "20130297541" "20140032459" "20140122397" "5272535" "5673367" "6545705" "6625317" "8103602" "8160354" "20080267458" "20090028384" "20130148882" "20060188168" "20020038294" "20040193670" "20050036649" "20090202114" "20090205764" "20090304231" "20120109866" "20130218821" "20140052679" "20140156574" "5216752" "5875108" "6509854" "8416847" "8467623" "20060127042" "20100271511" "20120243733" "20150304634" "7113867" "20040054964" "20040170330" "20060094001" "20060129728" "20060161218" "20080100482" "20100081958" "20110134242" "20120303091" "20130051680" "20130073500" "20130176430" "20130297542" "20130325773" "20140122398" "20150077639" "20150181168" "7580907" "8311965" "20120212579" "20130022111" "20150217449" "20030050903" "20090043722" "20110119215" "20110160741" "20120084240" "20130251278" "20150127155" "6418424" "20080152236" "20090312985" "20140201126" "20120130566").PN.				
S862	2	("20150350614").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2019/06/23 05:47
S863	3	((("9764468") or ("9713468") or ("9939253")).PN.	US-PGPUB; USPAT	OR	OFF	2019/06/23 05:50
S864	266	S856 and ((obstacle near3 target) near5 (detect\$4 discriminat\$4 distinguish\$4 determin\$4 identif\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/23 06:36
S865	11	S856 and ((obstacle near3 target) near5 (discriminat\$4 distinguish\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/23 06:36
S866	7	("20090299593" "20140316668" "5332057").PN. OR ("9896095").URPN.	US-PGPUB; USPAT;	OR	ON	2019/06/23 06:43

			USOCR			
S867	2	("20190158771").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2019/06/23 07:40
S868	1	("9848112").PN.	US-PGPUB; USPAT	OR	OFF	2019/08/17 14:37
S869	2	("20180278820").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2019/12/19 17:11
S870	5803	B60W30/08.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/19 17:12
S871	10456	B60W30/09.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/19 17:12
S872	3887	B60W30/14.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/19 17:12
S873	10273	B60W30/16.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/19 17:12
S874	1142	B60W30/17.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/19 17:12
S875	11322	h04n5/2258.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/19 17:12
S876	16086	G01C3/00-32.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/19 17:12

S877	367	G06T7/0051.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/19 17:12
S878	35116	G06T7/50-596.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/19 17:12
S879	2067	G02B7/38.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/19 17:12
S880	5832	G02B7/36.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/19 17:12
S881	6079	G01B11/026.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/19 17:12
S882	1627	G01B11/0691.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/19 17:12
S883	7492	G06K9/00664.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/19 17:12
S884	14173	G06K9/00791.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/19 17:12
S885	11560	G06K9/6215.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/12/19 17:12

			DERWENT; IBM_TDB			
S886	5032	G06K9/00825.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/19 17:12
S887	133959	S870 S871 S872 S873 S874 S875 S876 S877 S878 S879 S880 S881 S882 S883 S884 S885 S886	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/19 17:12
S888	33490	S887 and (obstacle target)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/19 17:12
S889	5781	B60W30/08.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/26 17:08
S890	11187	B60W30/09.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/26 17:08
S891	4104	B60W30/14.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/26 17:08
S892	10859	B60W30/16.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/26 17:08
S893	1203	B60W30/17.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/26 17:08
S894	11818	h04n5/2258.cpc.	US-PGPUB; USPAT; USOCR;	OR	ON	2020/02/26 17:08

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S895	16525	G01C3/00-32.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/26 17:08
S896	354	G06T7/0051.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/26 17:08
S897	36678	G06T7/50-596.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/26 17:08
S898	2140	G02B7/38.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/26 17:08
S899	5949	G02B7/36.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/26 17:08
S900	6270	G01B11/026.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/26 17:08
S901	1670	G01B11/0691.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/26 17:08
S902	7889	G06K9/00664.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/26 17:08
S903	14992	G06K9/00791.cpc.	US-PGPUB;	OR	ON	2020/02/26

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			17:08
S904	12144	G06K9/6215.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/26 17:08
S905	5307	G06K9/00825.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/26 17:08
S906	139641	S889 S890 S891 S892 S893 S894 S895 S896 S897 S898 S899 S900 S901 S902 S903 S904 S905	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/26 17:08
S907	35179	S906 and (obstacle target)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/26 17:08
S908	55	S906 and contrast with (object obstacle) with (present presence)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/26 17:08
S909	678	S906 and (object subject target) with distance with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/26 17:08
S910	2	("20180278820").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2020/02/27 17:48
S911	452	chriss near3 yoder	USPAT	OR	ON	2020/02/28 17:04
S912	10	chriss near3 yoder and quantiz\$4	USPAT	OR	ON	2020/02/28 17:06
S913	8	"11817977"	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2020/02/28 17:18

			EPO; JPO; DERWENT; IBM_TDB			
S914	55	("20040165090" "20040208475" "20050231618" "20060093234" "5161107" "7379561" "7477290" "H000101").PN. OR ("8212889").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2020/02/28 18:10
S915	5785	B60W30/08.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/28 19:03
S916	11195	B60W30/09.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/28 19:03
S917	4109	B60W30/14.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/28 19:03
S918	10863	B60W30/16.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/28 19:03
S919	1204	B60W30/17.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/28 19:03
S920	11821	h04n5/2258.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/28 19:03
S921	16530	G01C3/00-32.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/28 19:03
S922	354	G06T7/0051.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2020/02/28 19:03

			DERWENT; IBM_TDB			
S923	36705	G06T7/50-596.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/28 19:03
S924	2140	G02B7/38.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/28 19:03
S925	5950	G02B7/36.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/28 19:03
S926	6272	G01B11/026.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/28 19:03
S927	1670	G01B11/0691.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/28 19:03
S928	7897	G06K9/00664.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/28 19:03
S929	15008	G06K9/00791.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/28 19:03
S930	12155	G06K9/6215.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/28 19:03
S931	5313	G06K9/00825.cpc.	US-PGPUB; USPAT; USOCR;	OR	ON	2020/02/28 19:03

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S932	139725	S915 S916 S917 S918 S919 S920 S921 S922 S923 S924 S925 S926 S927 S928 S929 S930 S931	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/28 19:03
S933	35226	S932 and (obstacle target)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/28 19:03
S934	56	S932 and contrast with (object obstacle) with (present presence)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/28 19:03
S935	680	S932 and (object subject target) with distance with image with (contrast sharpness ((disk circle) near3 (blur confusion indistinctness)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/28 19:03
S936	148	S935 and ((contrast sharpness) and (threshold near4 (chang\$4 dynamic\$4 vary\$3 vari\$4 adjust\$4 control\$4)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/28 19:04
S937	17	S935 and ((contrast sharpness ((disk circle) near3 (blur confusion indistinctness))) same (threshold near4 (chang\$4 dynamic\$4 vary\$3 vari\$4 adjust\$4 control\$4)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/28 19:05

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S758	118	((("BRAIN") near3 ("CORPORATION"))).AANM.	US- PGPUB; USPAT	OR	ON	2017/08/05 20:44
S759	135	((Eugene) near2 (Izhikevich)).INV.	US- PGPUB; USPAT	OR	ON	2017/08/05 20:44
S760	31	((Vadim) near2 (Polonichko)).INV.	US- PGPUB; USPAT	OR	ON	2017/08/05 20:44

S761	51	((Filip) near2 (Piekniowski)).INV.	US-PGPUB; USPAT	OR	ON	2017/08/05 20:44
S762	149	G06T7/0051.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/05 20:45
S763	2047	G06K9/6215.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/05 20:45
S764	130	G01C3/32.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/05 20:45
S765	205	G01C3/00.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/05 20:45
S766	235	G01C3/02.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/05 20:45
S767	139	G01C3/06.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/05 20:45
S768	1448	G01C3/08.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/05 20:45
S769	586	B60W30/08.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/05 20:45
S770	1159	B60W30/09.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/05 20:45
S771	396	B60W30/14.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/05 20:45
S772	1510	B60W30/16.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/05 20:45
S773	148	B60W30/17.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/05 20:45
S774	3175	G01C3/00-32.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/05 20:45
S775	189	S758 S759 S760 S761	US-PGPUB; USPAT	OR	ON	2017/08/05 20:45
S776	8588	S762 S763 S764 S765 S766 S767 S768 S769 S770 S771 S772 S773 S774	US-PGPUB; USPAT	OR	ON	2017/08/05 20:46
S791	32964	"775" and image	US-PGPUB; USPAT	OR	ON	2017/08/06 14:39
S792	118	((("BRAIN") near3 ("CORPORATION"))).AANM.	US-PGPUB; USPAT	OR	ON	2017/08/06 14:39
S793	135	((Eugene) near2 (Izhikevich)).INV.	US-PGPUB; USPAT	OR	ON	2017/08/06 14:39

S794	31	((Vadim) near2 (Polonichko)).INV.	US-PGPUB; USPAT	OR	ON	2017/08/06 14:39
S795	51	((Filip) near2 (Pieknewski)).INV.	US-PGPUB; USPAT	OR	ON	2017/08/06 14:39
S796	189	S792 S793 S794 S795	US-PGPUB; USPAT	OR	ON	2017/08/06 14:39
S797	171	S796 and image	US-PGPUB; USPAT	OR	ON	2017/08/06 14:39
S798	98	S796 and image adj sensor	US-PGPUB; USPAT	OR	ON	2017/08/06 14:39
S799	32	S796 and image adj sensor and angle	US-PGPUB; USPAT	OR	ON	2017/08/06 14:39
S800	7	("2016/0004923").URPN.	USPAT	OR	ON	2017/08/06 14:40
S801	1	S796 and (presence and (contrast sharpness) and (two plural\$4 multiple second additional more) near3 image).clm.	US-PGPUB; USPAT	OR	ON	2017/08/06 18:21
S802	3266	((imag\$4 near3 sens\$4 detect\$4) with ((tilt\$4 angle angled angling slant\$4) with (lens))).clm.	US-PGPUB; USPAT	OR	ON	2017/08/06 18:32
S803	21015	((object target subject scene) with (extent distnace depth)).clm.	US-PGPUB; USPAT	OR	ON	2017/08/06 18:33
S804	57	S802 and S803	US-PGPUB; USPAT	OR	ON	2017/08/06 18:34
S805	3691	H04N5/225.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/06 19:08
S806	701	G06K9/00825.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/06 19:09
S807	6255	G06T7/50-596.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/06 19:09
S808	808	G06T7/50.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/06 19:09
S809	149	G06T7/0051.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/06 19:09
S810	1989	H04N5/2258.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/06 19:09
S811	586	B60W30/08.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/06 19:09
S812	1159	B60W30/09.cpc.	US-PGPUB; USPAT	OR	ON	2017/08/06 19:09
S813	396	B60W30/14.cpc.	US-	OR	ON	2017/08/06

			PGPUB; USPAT			19:09
S814	1510	B60W30/16.cpc.	US- PGPUB; USPAT	OR	ON	2017/08/06 19:09
S815	148	B60W30/17.cpc.	US- PGPUB; USPAT	OR	ON	2017/08/06 19:10
S816	1000	G01B11/026.cpc.	US- PGPUB; USPAT	OR	ON	2017/08/06 19:10
S817	245	G01B11/0691.cpc.	US- PGPUB; USPAT	OR	ON	2017/08/06 19:10
S818	1448	G01C3/08.cpc.	US- PGPUB; USPAT	OR	ON	2017/08/06 19:10
S819	3175	G01C3/00-32.cpc.	US- PGPUB; USPAT	OR	ON	2017/08/06 19:10
S820	451	G02B7/38.cpc.	US- PGPUB; USPAT	OR	ON	2017/08/06 19:11
S821	1463	G06K9/00664.cpc.	US- PGPUB; USPAT	OR	ON	2017/08/06 19:11
S822	1755	G06K9/00791.cpc.	US- PGPUB; USPAT	OR	ON	2017/08/06 19:11
S823	2047	G06K9/6215.cpc.	US- PGPUB; USPAT	OR	ON	2017/08/06 19:11
S824	24568	S805 S806 S807 S808 S809 S810 S811 S812 S813 S814 S815 S816 S817 S818 S819 S820 S821 S822 S823	US- PGPUB; USPAT	OR	ON	2017/08/06 19:12
S825	19	S824 and (presence and (contrast sharpness) and (two plural\$4 multiple second additional more) near3 image).clm.	US- PGPUB; USPAT	OR	ON	2017/08/06 19:12
S826	1743	S824 AND ((object target subject scene) with (extent distnace depth)).clm.	US- PGPUB; USPAT	OR	ON	2017/08/06 19:13
S827	891	S826 and ((imag\$4 near3 sens\$4 detect\$4)).clm.	US- PGPUB; USPAT	OR	ON	2017/08/06 19:13
S828	4	S827 and (presence and (contrast sharpness)).clm.	US- PGPUB; USPAT	OR	ON	2017/08/06 19:14
S829	83	S827 and ((shared single common) and (optic\$4 lens)).clm.	US- PGPUB; USPAT	OR	ON	2017/08/06 19:15
S938	5022	H04N5/225.cpc.	US- PGPUB; USPAT	OR	ON	2020/02/28 18:40
S939	1567	G06K9/00825.cpc.	US- PGPUB; USPAT	OR	ON	2020/02/28 18:40
S940	11929	G06T7/50-596.cpc.	US-	OR	ON	2020/02/28

			PGPUB; USPAT			18:40
S941	2312	G06T7/50.cpc.	US- PGPUB; USPAT	OR	ON	2020/02/28 18:40
S942	9	G06T7/0051.cpc.	US- PGPUB; USPAT	OR	ON	2020/02/28 18:40
S943	4223	H04N5/2258.cpc.	US- PGPUB; USPAT	OR	ON	2020/02/28 18:40
S944	1288	B60W30/08.cpc.	US- PGPUB; USPAT	OR	ON	2020/02/28 18:40
S945	2876	B60W30/09.cpc.	US- PGPUB; USPAT	OR	ON	2020/02/28 18:40
S946	838	B60W30/14.cpc.	US- PGPUB; USPAT	OR	ON	2020/02/28 18:40
S947	2480	B60W30/16.cpc.	US- PGPUB; USPAT	OR	ON	2020/02/28 18:40
S948	243	B60W30/17.cpc.	US- PGPUB; USPAT	OR	ON	2020/02/28 18:40
S949	1433	G01B11/026.cpc.	US- PGPUB; USPAT	OR	ON	2020/02/28 18:40
S950	312	G01B11/0691.cpc.	US- PGPUB; USPAT	OR	ON	2020/02/28 18:40
S951	1953	G01C3/08.cpc.	US- PGPUB; USPAT	OR	ON	2020/02/28 18:40
S952	4175	G01C3/00-32.cpc.	US- PGPUB; USPAT	OR	ON	2020/02/28 18:40
S953	640	G02B7/38.cpc.	US- PGPUB; USPAT	OR	ON	2020/02/28 18:40
S954	3056	G06K9/00664.cpc.	US- PGPUB; USPAT	OR	ON	2020/02/28 18:40
S955	4549	G06K9/00791.cpc.	US- PGPUB; USPAT	OR	ON	2020/02/28 18:40
S956	4491	G06K9/6215.cpc.	US- PGPUB; USPAT	OR	ON	2020/02/28 18:40
S957	43985	S938 S939 S940 S941 S942 S943 S944 S945 S946 S947 S948 S949 S950 S951 S952 S953 S954 S955 S956	US- PGPUB; USPAT	OR	ON	2020/02/28 18:40
S958	40	S957 and (presence and (contrast sharpness) and (two plural\$4 multiple second additional more) near3 image).clm.	US- PGPUB; USPAT	OR	ON	2020/02/28 18:40
S959	3246	S957 AND ((object target subject scene)	US-	OR	ON	2020/02/28

		with (extent distnace depth)).clm.	PGPUB; USPAT			18:57
S960	1729	S959 and ((imag\$4 near3 sens\$4 detect\$4)).clm.	US- PGPUB; USPAT	OR	ON	2020/02/28 18:57
S961	8	S960 and (presence and (contrast sharpness)).clm.	US- PGPUB; USPAT	OR	ON	2020/02/28 18:57
S962	80	S957 and ((contrast sharpness) and (threshold near4 (chang\$4 dynamic\$4 vary\$3 vari\$4 adjust\$4 control\$4))).clm.	US- PGPUB; USPAT	OR	ON	2020/02/28 19:02
S963	226	((("BRAIN") near3 ("CORPORATION"))).AANM.	US- PGPUB; USPAT	OR	ON	2020/02/28 19:04
S964	179	((Eugene) near2 (Izhikevich)).INV.	US- PGPUB; USPAT	OR	ON	2020/02/28 19:04
S965	55	((Vadim) near2 (Polonichko)).INV.	US- PGPUB; USPAT	OR	ON	2020/02/28 19:04
S966	71	((Filip) near2 (Pieknewski)).INV.	US- PGPUB; USPAT	OR	ON	2020/02/28 19:04
S967	308	S963 S964 S965 S966	US- PGPUB; USPAT	OR	ON	2020/02/28 19:04
S968	5	S967 and (presence and (contrast sharpness)).clm.	US- PGPUB; USPAT	OR	ON	2020/02/28 19:07
S970	1	S967 and ((contrast sharpness) and (threshold near4 (chang\$4 dynamic\$4 vary\$3 vari\$4 adjust\$4 control\$4))).clm.	US- PGPUB; USPAT	OR	ON	2020/02/28 19:07
S971	0	"Term Removed"	USPAT; *No UPAD	OR	ON	2020/02/28 19:18

3/1/2020 4:57:02 PM**C:\Users\cyoder\Documents\EAST\Workspaces\15-8\15-845-891.wsp**

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

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26418 7590 03/06/2020
REED SMITH LLP
P.O. BOX 488 (NYC)
PITTSBURGH, PA 15230-0488

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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/845,891	12/18/2017	Filip Piekiewicz	P23333US01	1010

TITLE OF INVENTION: OPTICAL DETECTION APPARATUS AND METHODS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$500	\$0.00	\$0.00	\$500	06/08/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
YODER III, CHRISS S	2699	348-302000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Reed Smith LLP

2 Sidharth Kapoor

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

Brain Corporation

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

San Diego, California

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☒ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

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☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 18-0582

5. Change in Entity Status (from status indicated above)

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
- ☐ Applicant asserting small entity status. See 37 CFR 1.27
- ☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Sidharth Kapoor/

Date June 3, 2020

Typed or printed name Sidharth Kapoor

Registration No. 68,159

Electronic Patent Application Fee Transmittal				
Application Number:		15845891		
Filing Date:		18-Dec-2017		
Title of Invention:		OPTICAL DETECTION APPARATUS AND METHODS		
First Named Inventor/Applicant Name:		Filip Piekniowski		
Filer:		Sidharth Kapoor/Cody Nye		
Attorney Docket Number:		P23333US01		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	2501	1	500	500

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				500

Electronic Acknowledgement Receipt

EFS ID:	39616299
Application Number:	15845891
International Application Number:	
Confirmation Number:	1010
Title of Invention:	OPTICAL DETECTION APPARATUS AND METHODS
First Named Inventor/Applicant Name:	Filip Piekiewicz
Customer Number:	26418
Filer:	Sidharth Kapoor/Cody Nye
Filer Authorized By:	Sidharth Kapoor
Attorney Docket Number:	P23333US01
Receipt Date:	03-JUN-2020
Filing Date:	18-DEC-2017
Time Stamp:	15:45:14
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 500
RAM confirmation Number	E202063F46125375
Deposit Account	
Authorized User	
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File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment after Notice of Allowance (Rule 312)	P2333US01_-_2020-06-03_-_Rule_312_Amendment.pdf	487445 520b54a6c17e223f060d7d5701ca58c9f7be2d5a	no	7
Warnings:					
Information:					
2	Issue Fee Payment (PTO-85B)	P2333US01_-_2020-06-03_-_Issue_Fee_Transmittal.PDF	103340 babcb27fadd38ab7c16dce6e5791a7e6af8972c	no	1
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30124 843b185931d6e0caa10829abbcbb93444af859d07	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			620909		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Filip Piekniewski, et al.

Serial No.: 15/845,891

Attorney Docket No.: P23333US01

Examiner: YODER III, CHRISS S.

Art Unit: 2697

For: OPTICAL DETECTION
APPARATUS AND METHODS

Filing Date: **December 18, 2017**

Rule 312 Amendment

In response to the Notice of Allowance entered on March 6, 2020, and with the payment of issue fee, Applicants respectfully request entry of this Rule 312 Amendment under 37 CFR 1.312. This amendment is timely being filed with the payment of the issue fee. The Commissioner is hereby authorized to charge any additional fees, which may be required by this paper, to Deposit Account No. 18-0582.

Amendments to Claims begin on page 2; and

Remarks begin on page 7.

AMENDMENTS TO CLAIMS

1- 24. (Previously Canceled).

25. (Currently Amended) A method of navigating an apparatus comprising:
obtaining at least one image associated with surroundings of the apparatus using a sensor, the
apparatus comprising a controller, an actuator and the sensor;

analyzing the at least one image to detect a presence of an object in the at least one
image;

determining the presence of the object based on comparing a contrast parameter of
the at least one image to a threshold, the contrast parameter corresponding to a maximum
absolute deviation of pixels within the at least one image from a reference ~~value~~ value, and the
threshold being dynamically configured based on one or more parameters; and

causing the controller to selectively activate the actuator based on the determination
that the object is within the range of the apparatus.

26-28. (Previously Cancelled).

29. (Previously Presented) The method of Claim 25, further
comprising:

adapting movement of the apparatus as the object is detected in the surroundings of
the apparatus.

30. (Currently Amended) A non-transitory computer-readable storage
medium having computer readable instructions stored thereon, that when executed by at least one
controller device configure the at least one controller device to:

receive data from at least one sensor, the data comprising at least one image of an
environment;

analyze an image, from the data generated by the at least one sensor, to determine a contrast parameter of the image, the contrast parameter comprising a deviation parameter, a reference value, and/or threshold associated with object detection, the contrast parameter corresponding to a maximum absolute deviation of pixels within the at least one image from a ~~reference value~~ reference value;

determine presence of the object based on comparing the contrast parameter of the image to a threshold, the threshold being dynamically configured based on one or more parameters; and

determine a location of the object from the contrast parameter meeting or exceeding the threshold at the location of the object.

31. (Previously Presented) The non-transitory computer-readable storage medium of Claim 30, wherein the at least one controller device is further configurable to execute the computer readable instructions to:

receive data from the at least one sensor, the data comprising dynamic lighting parameters of the environment; and

adjust the threshold for object detection based on the data from the at least one sensor.

32. (Previously Presented) The non-transitory storage medium of Claim 30, wherein the at least one controller device is further configurable to execute the computer readable instructions to:

determine a contrast parameter criterion comprising a fixed or a dynamic value from statistics of multiple images gathered by the at least one sensor.

33. (Previously Presented) The non-transitory storage medium of Claim 30, wherein the at least one controller device is further configurable to execute the computer readable instructions to:

partition a first image into at least two sub-images, the at least two sub-images comprise different energy spectra or regions of the first image; and

apply filtering operations to the at least one of the two sub-images prior to the determination of a contrast parameter criterion.

34. (Previously Presented) The non-transitory storage medium of Claim 30, wherein the at least one controller device is further configurable to execute the computer readable instructions to:

apply an asymmetrical filter to the at least one image received from the at least one sensor to facilitate the detection of an object at a target orientation.

35. (Currently Amended) A method for detection of objects near an apparatus, comprising:

gathering data from at least one sensor, the data comprising at least one image of an environment surrounding the apparatus;

analyzing the at least one image, to determine a contrast parameter of the at least one image, the contrast parameter comprising a deviation parameter, a reference value, and/or threshold associated with object detection, the contrast parameter corresponding to a maximum absolute deviation of pixels within the at least one image from a reference ~~value~~ value;

determining if an object is present in the image from based on comparing the contrast parameter of the at least one image to a threshold, the threshold being dynamically configured based on one or parameters.

36. (Previously Presented) The method of Claim 35, further comprising:
partitioning a first image, from the plurality of images, into at least two sub-images
comprising two different energy spectra or regions of the first image; and applying
filtering and/or cropping operations to the at least one of the two sub-images prior to the
determination of a contrast parameter criterion.

37. (Previously Presented) The method of Claim 35, further comprising:
applying an asymmetrical filter to the data from the at least one sensor to facilitate
detection of objects at a target orientation.

38. (Previously Cancelled).

39. (Previously Cancelled).

40. (Previously Presented) The method of claim 25, wherein the
contrast parameter corresponds to partitioning of the at least one image into a low spatial
frequency portion and a high spatial frequency portion.

41. (Previously Presented) The method of claim 25, wherein the
partitioning is configured by selecting a first area and a second area within the at least one image,
the first area corresponds to region around zero frequency, and the second area corresponds to
the remaining portion of the spectrum.

42. (Previously Presented) The method of claim 25, wherein the one or
more parameters include ambient light conditions surrounding the apparatus and time of day.

43. (Previously Presented) The method of claim 25, further comprising:
detecting the object at multiple locations from the apparatus based on the sensor
being at a slanted angle; and

determine, based on the detection of the object, whether the apparatus is approaching the object or the object is approaching the apparatus.

44. (Previously Presented) The method of claim 25, wherein the sensor comprising a linear array of photo sensitive elements.

45. (Previously Presented) The method of claim 44, wherein the linear array of photo sensitive elements disposed along axial direction of a lens.

46. (Previously Presented) The method of claim 25, wherein the sensor comprises one or more sensing layers axially displaced from one another, each one of the one or more sensing layers comprise a plurality of photo sensitive elements.

47. (Previously Presented) The method of claim 46, wherein the axial displacement of the one or more sensing layers is configured to produce an axial distribution of multiple focal planes, and wherein the axial distribution of multiple focal planes is configurable to enable detection of object positioned in front of the apparatus.

Remarks

Applicants present this Rule 312 amendment after Notice of Allowance entered on March 6, 2020, and with the payment of issue fee, pursuant to 37 CFR 1.312. *See*, MPEP 714.16.

Claim amendments made herein are to address minor typographical issues for claims 25, 30 and 35. That is, since the term “value” was misspelled, following amendment was made—“reference ~~vale~~-value” to cure this issue. These claim amendments do not change the scope of these claims in any manner. Lastly, claims 33, 34, 36 and 37 have been rejoined as the Examiner has withdrawn the restriction requirement as noted in the Notice of Allowance issued on March 6, 2020. No new matter is introduced via such amendments. Accordingly, Applicants respectfully request the Examiner to enter this amendment.

The Examiner is welcome to contact Applicants undersigned counsel to discuss any outstanding issues. Please apply any necessary charges or credits to Deposit Account 18-0582, referencing the above attorney docket number.

Date: June 3, 2020

Respectfully submitted,

/Sidharth Kapoor/
Sidharth Kapoor
Reg. No. 68,159
T: 609-524-2077
skapoor@reedsmith.com
Customer Number 26418
REED SMITH LLP



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/845,891	12/18/2017	Filip Piekniwski	P23333US01	1010
26418	7590	06/25/2020	EXAMINER	
REED SMITH LLP			YODER III, CHRISS S	
P.O. BOX 488 (NYC)				
PITTSBURGH, PA 15230-0488				
			ART UNIT	PAPER NUMBER
			2697	
			NOTIFICATION DATE	DELIVERY MODE
			06/25/2020	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

nycipdocketing@reedsmith.com
ptoipinbox@reedsmith.com

Response to Rule 312 Communication	Application No. 15/845,891	Applicant(s) Piekniewski et al.	
	Examiner CHRISS S YODER III	Art Unit 2697	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

1. ☒ The amendment filed on 03 June 2020 under 37 CFR 1.312 has been considered, and has been:
- a) ☐ entered.
 - b) ☒ entered as directed to matters of form not affecting the scope of the invention.
 - c) ☐ disapproved because the amendment was filed after the payment of the issue fee.
Any amendment filed after the date the issue fee is paid must be accompanied by a petition under 37 CFR 1.313(c)(1) and the required fee to withdraw the application from issue.
 - d) ☐ disapproved. See explanation below.
 - e) ☐ entered in part. See explanation below.

/LIN YE/
Supervisory Patent Examiner, Art Unit 2697

OK TO ENTER: /C.Y./

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Filip Piekniewski, et al.

Serial No.: 15/845,891

Attorney Docket No.: P23333US01

Examiner: YODER III, CHRISS S.

Art Unit: 2697

For: OPTICAL DETECTION
APPARATUS AND METHODS

Filing Date: **December 18, 2017**

Rule 312 Amendment

In response to the Notice of Allowance entered on March 6, 2020, and with the payment of issue fee, Applicants respectfully request entry of this Rule 312 Amendment under 37 CFR 1.312. This amendment is timely being filed with the payment of the issue fee. The Commissioner is hereby authorized to charge any additional fees, which may be required by this paper, to Deposit Account No. 18-0582.

Amendments to Claims begin on page 2; and

Remarks begin on page 7.

OK TO ENTER: /C.Y./



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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/845,891	07/28/2020	10728436	P23333US01	1010

26418 7590 07/08/2020
REED SMITH LLP
P.O. BOX 488 (NYC)
PITTSBURGH, PA 15230-0488

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Filip Pickniewski, San Diego, CA;
Brain Corporation, San Diego, CA;
Vadim Polonichko, San Diego, CA;
Eugene Izhikevich, San Diego, CA;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.



ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
15/845,891

RECEIPT DATE / TIME
01/13/2025 06:02:01 PM Z ET

ATTORNEY DOCKET #
P23333US01

Title of Invention

OPTICAL DETECTION APPARATUS AND METHODS

Application Information

APPLICATION TYPE Utility - Nonprovisional Application
under 35 USC 111(a)

PATENT # 10728436

CONFIRMATION # 1010

FILED BY Sidharth Kapoor

PATENT CENTER # 68718118

FILING DATE 12/18/2017

CUSTOMER # 26418

FIRST NAMED
INVENTOR Filip Piekniowski

CORRESPONDENCE
ADDRESS -

AUTHORIZED BY -

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
15-845891- POA.pdf	2	Power of Attorney	414 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
15-845891- POA.pdf	A4052B25E2B09C0450678229CFB8B81369A130BD8D73622B5 1EE817DC549851C572611036948BEC7ECAAF3DAF543C7FE420 BE1CCB5CC9453A4A7246F9C04B9CE7

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA/82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number 15/845,891

Filing Date 12/18/2017

First Named Inventor Filip Piekniowski

Title OPTICAL DETECTION APPARATUS AND METHODS

Art Unit 2697

Examiner Name CHRISS S YODER III

Attorney Docket Number 035471.058US2

SIGNATURE of Applicant or Patent Practitioner

Signature /Sidharth Kapoor/

Date (Optional)

Name Sidharth Kapoor

Registration
Number

68,159

Title (if Applicant is a
juristic entity)

Applicant Name (if Applicant is a juristic entity)

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.



*Total of 1 forms are submitted.

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If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number

Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)



I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above:

197519

OR



I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:



The address associated with the above-mentioned Customer Number

OR



The address associated with Customer Number:

OR



Firm or
Individual Name

Address

City

State

Zip

Country

Telephone

Email

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

Brain Corporation

Inventor or Joint Inventor (title not required below)



Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)



Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)



Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature

Andy Ng

Date (Optional)

Name

Andy Ng

Title

General Counsel

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.



Total of 1 forms are submitted.

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0035. Public burden for this form is estimated to average 3 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.** If filing this completed form by mail, send to: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/845,891	12/18/2017	Filip Piekniowski	035471.058US2

197519
Pierson Ferdinand, LLP
1101 Pennsylvania Avenue N.W.
Suite 300
Washington, DC 20005

CONFIRMATION NO. 1010
POA ACCEPTANCE LETTER



OC000000083406223

Date Mailed: 01/24/2025

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 01/13/2025.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/ylueng/



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/845,891	12/18/2017	Filip Piekniwski	P23333US01

26418
Reed Smith LLP (New York)
P.O. BOX 488
PITTSBURGH, PA 15230-0488

CONFIRMATION NO. 1010

POWER OF ATTORNEY NOTICE



OC000000083406192

Date Mailed: 01/24/2025

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 01/13/2025.

- The Power of Attorney to you in this application has been revoked by the applicant. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/ylueng/