

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S84	1	((Jerliang) near2 (Yeh)).INV.	US-PGPUB; USPAT	OR	ON	2014/03/15 21:17
S85	1	13/071561	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 16:24
S86	1	((light\$emission (light near3 emitting)) near3 device) same (projecting near8 zoom near5 (lens element))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 16:38
S87	7	("4443076").URPN.	USPAT	OR	ON	2014/03/17 16:39
S88	2	apparatus near5 controlling near7 three near3 dimension\$4 near3 optical near4 field	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 16:43
S89	3	apparatus near5 control\$4 near7 three near3 dimension\$4 near3 optical near4 field	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 16:43
S90	1	( three near3 dimension\$4 near3 optical near4 field) same (liquid near3 lens)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 16:44
S91	52	( three near3 dimension\$4 near3 optical near4 field) same (control\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 16:45
S92	3	( three near3 dimension\$4 near3 optical near4 field) same (control\$4) same zoom\$4	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2014/03/17 16:45

			EPO; JPO; DERWENT; IBM_TDB			
S93	3	( three near3 dimension\$4 near3 optical near4 field) same zoom\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 16:47
S94	10956	light near3 shap\$4 near4 device	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 16:50
S95	6	(light near3 shap\$4 near4 device) same zoom near4 (element lens)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 16:51
S96	6	(light near3 shap\$4 near4 device) same (zoom near4 (element lens))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 16:51
S97	12	("20040174533"   "20040239947"   "20050007602"   "20050117168"   "20050264827"   "20060012799"   "20060203253"   "20080144043"   "20100141959"   "3829219"   "7023562"   "7333216").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2014/03/17 16:52
S98	0	(plural\$3 near5 light near3 (emission emitting) near3 device) same (three\$dimension\$3 near4 optical near3 field)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 16:55
S99	3	(plural\$3 near5 light near3 (emission emitting) near3 device) and (three\$dimension\$3 near4 optical near3 field)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 16:56
S100	0	(F21V1/00 F21V14/06).cpc. and (three near4 diension\$4 near5 control\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 18:04
S101	1	(F21V1/00 F21V14/06).cpc. and (three near4 dimension\$4 near5 control\$4)	US-PGPUB; USPAT; USOCR;	OR	ON	2014/03/17 18:05

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S102	10	(F21V1/00 F21V14/06).cpc. and (liquid near3 lens)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 18:05
S103	143	(F21V1/00 F21V14/06).cpc. and (zoom\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 18:06
S104	2	"7460309"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 18:10
S105	30	("20040021802"   "20040041104"   "20040130561"   "20040174610"   "20050007572"   "20050024730"   "20050285835"   "20060215273"   "20060245072"   "5229872"   "5296891"   "5500736"   "5523193"   "5530482"   "5579147"   "5677703"   "5808797"   "5982553"   "6133986"   "6177980"   "6379867"   "6509955"   "6649312"   "6687041"   "6747783"   "6795169"   "6806897"   "6811953"   "6909555"   "RE39874").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2014/03/17 18:12
S106	6	(F21V1/00 F21V14/06).cpc. and (zoom\$3 near6 object)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 20:42
S107	6	("3088370"   "4151584"   "4519020"   "6092914"   "6837596").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2014/03/17 20:47
S108	36	"1293722"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 20:49
S109	376	(chang\$4 controlling adjust\$4) near5 focal near3 length near7 zoom\$4 near3 unit	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 20:53

S110	2	((chang\$4 controlling adjust\$4) near5 focal near3 length near7 zoom\$4 near3 unit) same (optical near4 field)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 20:53
S111	2	("5300977"   "5404189").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2014/03/17 20:54
S112	0	("5953548").URPN.	USPAT	OR	ON	2014/03/17 20:55
S113	3467	(F21V1/00 F21V14/06).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 20:56
S114	0	(F21V1/00 F21V14/06).cpc. and (three near3 dimension\$4 near4 optical near3 filed)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 20:56
S115	1	(F21V1/00 F21V14/06).cpc. and (three near3 dimension\$4 near4 optical near3 field)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 20:57
S116	44	(F21V1/00 F21V14/06).cpc. and (plural\$4 near4 light near3 emitting near3 (device source ))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 20:58
S117	10	("20070091271"   "20070139922"   "20080266893"   "6939009"   "7344279"   "7378792"   "7410261"   "7422330"   "7453217"   "7467885").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2014/03/17 21:43
S118	4	("20050174775" "20100165297").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 21:46
S119	2	"20100165297"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 21:52
S120	2989	(G02B13/00;13/16;13/22).cpci.	US-PGPUB; USPAT;	OR	ON	2014/03/17 21:55

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S121	0	(G02B13/00;13/16;13/22).cpci. and (three near3 dimension\$4 near4 control )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 21:55
S122	0	(G02B13/00;13/16;13/22).cpci. and (optical near4 field near4 control\$4 )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 21:55
S123	584	(G02B13/00;13/16;13/22).cpci. and (lens near7 focal near4 length)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 21:56
S124	19	(G02B13/00;13/16;13/22).cpci. and ((lens near7 focal near4 length) same (intensity))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 21:56
S125	34	G02B26/00.cpc. and (lens near5 focal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 21:58
S126	7	("20040227063"   "20040228002"   "4079368"   "4583824"   "6369954"   "6449081"   "6806988").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2014/03/17 22:02
S127	277	(G02B3/12 G02B21/00 G03B21/208).cpci. and (lens near5 focal near3 length)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 22:06
S128	0	(G02B3/12 G02B21/00 G03B21/208).cpci. and (multiple near4 lens near5 focal near3 length)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 22:06
S129	2	(G02B3/12 G02B21/00 G03B21/208).cpci. and ((multiple plural) near4 lens near5 focal near3 length)	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2014/03/17 22:06

			EPO; JPO; DERWENT; IBM_TDB			
S130	6	"20050113912"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 22:08
S131	2	("20010017985"   "20020176148").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2014/03/17 22:08
S132	2	"20030117797"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/17 22:13
S133	1	13/071561	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/18 09:19
S134	15623	(( F21V14/06 OR G02B3/12 OR G02B3/14 OR G02B7/00 OR G03B21/00 OR G03B21/208).CPC. )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/18 09:21
S135	75	(( (F21V14/06 OR G02B3/12 OR G02B3/14 OR G02B7/00 OR G03B21/00 OR G03B21/208).CPC. ) and (three near4 dimension\$4 near5 (control\$4 adjust\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/18 09:22
S136	5	"20110109823"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/18 09:23
S137	3	"20100181022"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/18 09:24
S138	49	(( (F21V14/06 OR G02B3/12 OR G02B3/14 OR G02B7/00 OR G03B21/00 OR G03B21/208).CPC. ) and (three near4 dimension\$4 near5 (control\$4 adjust\$4)) and project\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2014/03/18 09:35

			IBM_TDB			
S139	5	"20110085094"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/18 09:44
S140	6	("20060028734"   "20070217022"   "20080211977"   "20080252720"   "4525036"   "7558003").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2014/03/18 09:44
S141	14	("20030222980"   "20040141160"   "3905686"   "6462891"   "7001024"   "7088321"   "7125121"   "7131735"   "7207677"   "7396136"   "7459333"   "7498648"   "7553033"   "7636190").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2014/03/18 10:32
S142	4	"20030133080"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/18 10:42
S143	9	("4799778"   "5114513"   "5160192"   "5410563"   "5986807"   "5993898"   "5995303"   "6005717"   "6281993").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2014/03/18 11:02
S144	6	("4545653"   "5059013"   "5243585"   "5373395"   "5384659"   "5497465").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2014/03/18 11:04
S145	8	(( G02B3/12 OR G02B26/00 OR G02B13/00 OR G02B13/16 OR G02B13/22).CPC. ) and (three near4 dimension\$4 near5 (control\$4 adjust\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/18 11:20
S146	31	(( G02B3/12 OR G02B26/00 OR G02B13/00 OR G02B13/16 OR G02B13/22).CPC. ) and (plural\$3 near4 zoom near4 lens)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/18 11:22
S147	0	(( G02B3/12 OR G02B26/00 OR G02B13/00 OR G02B13/16 OR G02B13/22).CPC. ) and ((plural\$3 near4 zoom near4 lens) with (plural\$4 near3 light near4 (source device)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/18 11:23
S148	0	project\$4 same (plural near5 zoom\$3 near4 liquid near3 lens)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/18 13:58
S149	0	(plural near5 zoom\$3 near4 liquid near3 lens)	US-PGPUB; USPAT; USOCR;	OR	ON	2014/03/18 13:59

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S150	21	(plural\$3 near5 zoom\$3 near9 liquid near3 lens)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/18 13:59
S151	9	("20060103947"   "20070097515"   "20090185281"   "20100231783"   "20100259833"   "7245440"   "7317580"   "7515348"   "7679833").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2014/03/18 14:00
S152	2	"06265881"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/18 15:09
S153	1	(nakanishi and nakano and takada).in. and (projection near4 device)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/18 15:10
S154	27	("6758579"   "5706061"   "6343862"   "6450645"   "20050007563"   "5504514"   "6254246"   "20010053078"   "6147720"   "6252636"   "6733139"   "5580142"   "20040263802").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/18 15:11
S155	115	sakata-hidefumi.in. and projection	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/18 15:16
S156	0	("2011/0085094").URPN.	USPAT	OR	ON	2014/03/18 16:07
S157	766	project\$5 same (( array ) near6 liquid near3 lens)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/18 16:11
S158	1	project\$5 same (( array ) near6 liquid near3 lens) same ((two three) near4 dimension\$4 near5 control )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/18 16:12
S159	9	project\$5 same (( array ) near6 liquid near3	US-PGPUB;	OR	ON	2014/03/18



		lens) same (optical near4 field )	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			16:13
S160	54	(project\$5 same (( array ) near6 liquid near3 lens)) and "362"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/18 16:14
S161	0	(project\$5 same (( array ) near2 (liquid adj2 lens))) and "362"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/18 16:14
S162	52	(project\$5 same (( array ) near6 liquid near lens)) and "362"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/18 16:15
S163	7	project\$5 same (( array ) adj2 liquid adj2 lens)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/18 16:17
S164	6	("20070008617"   "5101279"   "5231432"   "5758940"   "7079203"   "7250923").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2014/03/18 16:19
S165	5	"20080100905"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/18 16:23
S166	5	("7460309" "20050113912").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/18 17:41
S167	30	("20040021802"   "20040041104"   "20040130561"   "20040174610"   "20050007572"   "20050024730"   "20050285835"   "20060215273"   "20060245072"   "5229872"   "5296891"   "5500736"   "5523193"   "5530482"   "5579147"   "5677703"   "5808797"   "5982553"   "6133986"   "6177980"   "6379867"   "6509955"   "6649312"   "6687041"   "6747783"   "6795169"	US-PGPUB; USPAT; USOCR	OR	ON	2014/03/18 17:41

		"6806897"   "6811953"   "6909555"   "RE39874").PN.				
S168	20	("2005/0113912").URPN.	USPAT	OR	ON	2014/03/18 17:46
S169	22	("2003/0117797").URPN.	USPAT	OR	ON	2014/03/18 17:57
S170	1	(control\$4 near4 three near5 optical near2 field) and 362/237,238,239,281,419,422,449,455.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/03/18 18:01

**EAST Search History (Interference)**

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