		("10136737") or ("10442371") or ("8568829") or ("10198090") or ("20180116430") or ("20060238967") or ("5723821") or ("10349760") or ("6131347") or ("20140224953") or ("9605792") or ("6397533") or ("20180101196") or ("20120212896") or ("7608780") or ("9297495") or ("20090205864") or ("20170341463") or ("20160054537") or ("20170097698") or ("20070170230") or ("5971506") or ("20140263939") or ("8959845") or ("10232665") or ("6364265") or ("20160030696") or ("9644783") or ("20040206138") or ("20100090075") or ("20120127651") or ("20170152990") or ("20130165012") or ("20120194991") or ("8894445") or ("20080197248") or ("20130244496") or ("20100270052") or ("20060248803") or ("6903924") or ("20010015567") or ("5189259") or ("5435737") or ("20150103245") or ("6115977") or ("8905792") or ("20130148289") or ("9056696") or ("20170239588")).PN. or (("20070099681") or ("8104411") or ("6400561") or ("20180263136") or ("20150335139") or ("20020089820") or ("10443274") or ("5618141") or ("20120018605") or ("9004432") or ("20170310096") or ("20130260615") or ("9864403") or ("20030101778") or ("20170281390") or ("8025016") or ("8649169") or ("9414685") or ("9261912") or ("20130026324") or ("8338703") or ("20100090487") or ("20110128689") or ("9060609") or ("5934454") or ("4964017") or ("20110267774") or ("20080283148") or ("6158699") or ("9669324") or ("6553794") or ("10117353") or ("7143614") or ("9979172") or ("20070056337") or ("20050150262") or ("20110292666") or ("6497391") or ("20180358824") or ("9044087") or ("8098488") or ("20130140965") or ("7201029") or ("20120322301") or ("20060288745") or ("6644748") or ("20150111626") or ("20170108703") or ("9206626") or ("8814128") or ("8717758") or ("10312700") or ("20140182876") or ("20150121772") or ("8602817") or ("9375073") or ("7121125") or ("7100404") or ("RE43869") or ("20080035029") or ("20150052957") or ("6400562") or ("20160076276") or ("20170339800") or ("10125523") or ("20070220931") or ("20040026582") or ("9562375") or ("9874903") or ("8837144") or ("20090213536") or ("8437132") or ("6481683") or ("20020167205") or ("20120104185") or ("10420407") or ("10004476") or ("20140093303") or ("9078350") or ("20120272693") or				

		("20180360208") or ("20190078355") or ("7111479") or ("9310841") or ("10478580") or ("20140238091") or ("20190039574") or ("6702372") or ("8929065") or ("20140367136") or ("20080151488") or ("10058155") or ("10070707") or ("6089520") or ("10120199") or ("7978466") or ("4356712") or ("8955905") or ("7744172") or ("7100403") or ("6000252") or ("5502989") or ("20170145719") or ("8453981") or ("20070099680") or ("20190029380") or ("9074722") or ("5493878") or ("6735990") or ("20110297050") or ("20150301562") or ("7827920") or ("5764474") or ("20170099922") or ("20090244862") or ("8459191") or ("20110084182") or ("9498034") or ("9700114") or ("20140361584") or ("6000251") or ("20070278361") or ("9185953") or ("6155088") or ("6588241") or ("20140168885") or ("6810295") or ("9575516") or ("20190025881") or ("8763795") or ("6612665") or ("20150357751") or ("6112562") or ("6446285") or ("5755420")).PN. or (("4544323") or ("20090049791") or ("20180231228") or ("8472186") or ("8281542") or ("9146584") or ("20130178161") or ("20020011193") or ("20130040470") or ("7891719") or ("5924807") or ("20130043290") or ("20170065044") or ("20160058145") or ("20030000429") or ("20140360893") or ("20170303654") or ("20140210237") or ("20090107083") or ("9065205") or ("9660376") or ("20150003907") or ("20110102994") or ("20100299876") or ("8472177") or ("9472888") or ("20190289740") or ("20150380862") or ("20050185370") or ("7864518") or ("20140001324") or ("6385036") or ("20120085356") or ("20020141148") or ("20020151226") or ("20020101709") or ("20140246354") or ("6736073") or ("9055796") or ("5651456") or ("9723113") or ("8254097") or ("8467179") or ("8467178") or ("20150277509") or ("20140202890") or ("10178903") or ("9141136") or ("7184261") or ("8467185") or ("20150182197") or ("20120106078") or ("7322653") or ("20120106062") or ("9904333") or ("20120106059") or ("8467183") or ("20180013271") or ("5743503") or ("6158829") or ("20050279905") or ("6628516") or ("20060045495") or ("20110267757") or ("7787245") or ("20180325229") or ("5913907") or ("6574096") or ("20070223186") or ("20180084903") or ("20120106061") or ("20120106060") or ("8800569") or ("20040126197") or ("20130285522") or ("9462093") or ("6266236") or ("9383774") or				

		("20170156497") or ("10093377") or ("20040254020") or ("20060278504") or ("10067537") or ("20130178155") or ("9167906") or ("8708151") or ("20080100106") or ("20140225402") or ("9431190") or ("20180099714") or ("8891230") or ("9774713") or ("20090266954") or ("20160176356") or ("7530541") or ("9902335") or ("20050269477") or ("20140166832") or ("20190100267") or ("20130068706") or ("20150237750") or ("7823973") or ("8995125") or ("20060278794") or ("6967836") or ("20180140427") or ("10112670") or ("20150105127") or ("20090288543") or ("5944210") or ("8950593") or ("6540350") or ("20150111623") or ("20170360223") or ("20160204588") or ("20110309212") or ("6644605") or ("20170017268") or ("20140312086") or ("20130181584") or ("6714188") or ("7900489") or ("9049785") or ("7226027") or ("20140043744") or ("9188275") or ("10474189") or ("9991922") or ("9328865") or ("7348504") or ("6417842") or ("6267607")).PN. or (("20180013272") or ("20090025436") or ("20090212184") or ("20190064877") or ("20110112399") or ("8250830") or ("20170237843") or ("20020135732") or ("8934226") or ("9655434") or ("20050185373") or ("20140111933") or ("20190133280") or ("6926477") or ("20160297491") or ("20110267773") or ("20190308493") or ("10477968") or ("20190372614") or ("20090161062") or ("20130301216") or ("9711957") or ("6883694") or ("20030075578") or ("6439134") or ("20180092440") or ("9592871") or ("20020125798") or ("20150169007") or ("9588550") or ("5813873") or ("20170331237") or ("20170183052") or ("10396514") or ("10159336") or ("20090064627") or ("6070269") or ("20120119040") or ("20120049027") or ("10457127") or ("20120273630") or ("10104957") or ("20160352380") or ("20190269241") or ("7896573") or ("8072767") or ("9743757") or ("6543832") or ("20200000611") or ("8601617") or ("7625082") or ("10328776") or ("20140168877") or ("7261270") or ("5451168") or ("20120145835") or ("20190248299") or ("7365971") or ("20160235190") or ("20070201201") or ("10250783") or ("20040150628") or ("5787533") or ("20100091442") or ("20180192777") or ("5295089") or ("20100051769") or ("8888058") or ("7485820") or ("10352496") or ("9962003") or ("20130216067") or ("20190160651") or ("5000602") or ("8867202") or ("20200033912") or				

		("20120229882") or ("9058727") or ("20150208799") or ("10372161") or ("20170332778") or ("9807211") or ("20020120365") or ("9307131") or ("6532152") or ("9267641") or ("9056584") or ("20190230259") or ("20070002530") or ("20140092531") or ("8687359") or ("20120229009") or ("7614149") or ("20050152106") or ("20120030930") or ("5673982") or ("7707718") or ("20120241567") or ("20170019512") or ("20190323651") or ("10375844") or ("10390974") or ("20060260102") or ("20140197048") or ("20020017066") or ("6016248") or ("20140008513") or ("20100155099") or ("20180340646") or ("20110138739") or ("9424721") or ("20160169491") or ("20140085814") or ("20080078903") or ("6301101") or ("20080230266") or ("7611117") or ("5802988") or ("4180955") or ("8425286") or ("8702055") or ("9277825") or ("9589428") or ("10152081") or ("10187106") or ("20060260044") or ("20170344066") or ("9581286") or ("20070242426") or ("20150366356") or ("7242576")).PN. or (("20130147326") or ("20100130070") or ("20130229764") or ("20180013934") or ("20150329054") or ("9295778") or ("20110240830") or ("6856506") or ("7169141") or ("20200004113") or ("5805075") or ("20140191523") or ("20170261830") or ("9881290") or ("5392913") or ("20020144833") or ("20140077542") or ("20100221958") or ("20160132852") or ("9179777") or ("20010054861") or ("20130279110") or ("20180093608") or ("20050199672") or ("9257018") or ("20160144779") or ("20060268506") or ("20150220114") or ("6149001") or ("9207724") or ("9701248") or ("20160195899") or ("10191348") or ("20090098837") or ("20180257255") or ("7947903") or ("20130036949") or ("7789875") or ("20190024683") or ("7461483") or ("20130278122") or ("20100220434") or ("8345410") or ("5101736") or ("20090044736") or ("9840195") or ("20030191467") or ("9901713") or ("20020142650") or ("9173491") or ("20140110276") or ("5993227") or ("9563239") or ("7347484") or ("6279861") or ("20160202734") or ("20160320808") or ("20110138557") or ("20050026493") or ("5680721") or ("9993054") or ("20090009936") or ("6005209") or ("6557310") or ("7930006") or ("10245374") or ("9345328") or ("8733857") or ("9916570") or ("20170353209") or ("9643629") or ("7509891") or ("20170151972") or				

		("9145158") or ("20110180297") or ("20150305505") or ("9489020") or ("20180323559") or ("10089615") or ("7041103") or ("7650230") or ("20060044262") or ("10345672") or ("7736196") or ("20190305571") or ("20140376999") or ("6520607") or ("20160003270") or ("9486935") or ("20080226389") or ("20170161708") or ("8458847") or ("10245754") or ("7938689") or ("20150164227") or ("20150328020") or ("9631767") or ("9568947") or ("20110166947") or ("20170068143") or ("9882305") or ("20170354220") or ("10463120") or ("9189017") or ("20160358147") or ("8655422") or ("20140077571") or ("6545214") or ("20170221035") or ("10071683") or ("20150108317") or ("9451826") or ("20130284684") or ("6709039") or ("20130282501") or ("20060124133") or ("20120257341") or ("20110166690") or ("20160046309") or ("6115931") or ("6452793") or ("8896991") or ("9742458") or ("5337464") or ("9351552") or ("9466228") or ("10043495") or ("20060167453") or ("20170367503") or ("20100103602") or ("20080023508") or ("20160367029")).PN. or (("20120311941") or ("20150192953") or ("20080251680") or ("9010597") or ("20120327588") or ("7933123") or ("10490961") or ("8519326") or ("20060035767") or ("20110297578") or ("20160018847") or ("20080111032") or ("20190277441") or ("20030122457") or ("8138469") or ("20120256071") or ("8827234") or ("7206618") or ("20110043990") or ("20160294433") or ("5605311") or ("20090257207") or ("20170086535") or ("7875030")).PN.				
S466	418	S465 and tablet$1	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 11:27
S467	237	S466 and magnet$4	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 11:27
S468	38	S467 and (mount$3 near2 wall)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 11:27
S469	1	"9307131".pn.	US-PGPUB;	OR	OFF	2020/02/03 11:32

			USPAT; USOCR			
S470	1,508	H05K7/18,183.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 11:43
S471	1,175	H02G3/081.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 11:43
S472	10,875	361/724-727,679.01,679.02.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 11:44
S473	4,602	312/223.1-223.3.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 11:44
S474	465	H02B1/40,42.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 11:45
S475	3,932	H05K7/18,183,14,1401,1417,00.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 11:48
S476	167	((("FRANCK") near3 ("Christopher")) OR (("KOZLOWSKI") near3 ("William")) OR (("QUINLAN") near3 ("Jamie")) OR (("SHUTE") near3 ("Matthew"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/02/03 11:51
S477	9	(("20160164271") or ("20180310430") or ("10270236") or ("20190237951") or ("20160295722") or ("10021807") or ("20150049452") or ("9370117") or ("4944082")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 11:52
S478	13	((("SONG") near3 ("Junhyeok")) OR (("KIM") near3 ("Backman")) OR (("YANG") near3 ("Kwangsik")) OR (("YEO") near3 ("Wonku")) OR (("YOO") near3 ("Sunghyun")) OR (("YOU") near3 ("Suhyun")) OR (("LEE") near3 ("Seokho")) OR (("JO") near3 ("Hwanju"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/02/03 11:53

S479	11	(("20190258290") or ("20130083464") or ("20130077221") or ("10409430") or ("20190250793") or ("20130083477") or ("9116655") or ("9086835") or ("20130083468") or ("20130083558") or ("20170003782")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 11:53
S480	465	H02B1/40,42.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 11:55
S481	14,892	G06F1/169,1616,1662.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 11:56
S482	3,337	361/679.26-679.3, "679.55", "679"."."56".CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 11:57
S483	5,793	361/679.26-679.3,679.55,679.56.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 11:57
S484	7,160	361/679.26-679.3,679.55,679.56,679.4.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 11:58
S485	15,909	G06F1/169,1616,1662,1671,1615.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 12:00
S486	9	("20120182677" | "20150220109" | "20150242012" | "20160077548" | "20160342176" | "20160357222" | "20170235933" | "8785030" | "8852796").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 12:27
S487	9	S486 AND (batter$3 or power)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 12:30
S488	8	S487 and (cpu or process$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 12:30
S489	13	("5515491" | "8370998" | "9285776" | "7949633" | "20140003006" | "8116444" | "1313644" | "8893938" | "20130044215" | "20150277489" | "20150089974" | "20140099479").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 12:33
S490	13	("20150116125" | "20160088880" | "5008864" | "5235560" | "6459890" | "6854978" | "6978160" |	US-PGPUB;	OR	OFF	2020/02/03 12:35

		"7618260" | "8787006" | "8787119" | "9155505" | "9256253" | "9367087").PN.	USPAT; USOCR			
S491	26	S489 S490	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 12:35
S492	15	S491 AND (batter$3 or power)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 12:36
S493	9	S492 and (cpu or process$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 12:36
S494	50	("20050056655" | "4331154" | "5392261" | "20060183980" | "20080132383" | "20050116811" | "20050256416" | "20120022341" | "4491970" | "5524637" | "5899370" | "6361503" | "20110021319" | "20120253485" | "20140107493" | "20110092790" | "3978849" | "4178751" | "4407295" | "5301154" | "20140032234" | "7717827" | "2189096" | "20070118043" | "20120168471" | "20140073486" | "4224948" | "4409983" | "5734625" | "3543724" | "8992385" | "20020151811" | "20110260870" | "20080228089" | "20090312656" | "20130064049" | "20130237778" | "4129124" | "4307727" | "6151968" | "6736759" | "7914425" | "20020188210" | "20030065269" | "5406952" | "5755623" | "20140228175" | "7192401" | "20080228089").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 12:49
S495	40	("20080068288" | "7050835" | "20030230980" | "5834893" | "7558057" | "5247190" | "8096068" | "7710370" | "20100163684" | "4658877" | "2003109286" | "4769292" | "5844363" | "6013982" | "6087196" | "6091195" | "7968146" | "20020194702" | "20070145195" | "5009905" | "5503210" | "7180665" | "20040174116" | "6337102" | "7050835" | "7279704" | "7431968" | "8005518" | "20100064564" | "20100220060" | "20120038570" | "5707745" | "6468819" | "5560412" | "5703436" | "6097147" | "6294398" | "6303238" | "20060146488" | "20070097014" | "20130044487" | "7884815").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 12:50
S496	38	("20110199389" | "20120242588" | "20100134503" | "20080258917" | "20110298750" | "20120242592" | "20080166519" | "20110054565" | "20110187681" | "20110215934" | "20110265565" | "20030066308" | "20100302179" | "20110037907" | "20100245246" | "20120069232" | "8982051" | "20120243151" | "20110265564" | "5931764" | "20110183722" |	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 12:51

		"20120115422" | "20120314546" | "20110265566" | "20050174302" | "20100242274" | "20100117975" | "20070158376" | "20090122036" | "20090251888" | "20080273040" | "20030201999" | "20050285963" | "20100317409" | "20110043431" | "20080291225" | "20080309640" | "20090132093").PN.				
S497	128	S494 S495 S496	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 12:51
S498	93	S497 AND (batter$3 or power)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 12:51
S499	79	S498 and (cpu or process$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 12:51
S500	15	("20160077548" | "20150220109" | "20150242012" | "8785030" | "20060146514" | "7460085" | "8852796" | "20170100634" | "8482909" | "20160342176" | "20160357222" | "20120182677" | "9557386" | "20140009048" | "20170235933").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 12:52
S501	0	"87850303".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 13:22
S502	1	"8785030".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 13:22
S503	7,577	361/679.01,679.02,679.03.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 14:14
S504	16,587	G06F1/163,1635,1643,1652.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 14:15
S505	664	((("HIROKI") near3 ("Masaaki")) OR (("FURUMATSU") near3 ("Daisuke"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/02/03 14:15

S506	664	((("HIROKI") near3 ("Masaaki")) OR (("FURUMATSU") near3 ("Daisuke"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/02/03 14:15
S507	2,357	((("RAFF") near3 ("John")) OR (("MYERS") near3 ("Scott")) OR (("STRINGER") near3 ("Christopher"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/02/03 14:16
S508	10	(("20190265751") or ("20170177025") or ("10289158") or ("20150261254") or ("9594402") or ("8917517") or ("20110176283") or ("20130164995") or ("8874393") or ("20110282604")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 14:16
S509	51	(("8976141") or ("9864403") or ("20160357318") or ("20140240289") or ("20180101196") or ("10429892") or ("20130140965") or ("20150227227") or ("9791949") or ("20150130767") or ("9411451") or ("20190033911") or ("20190391614") or ("10228719") or ("20190163233") or ("20190377385") or ("10488888") or ("10348875") or ("20190152129") or ("20170359453") or ("20180059729") or ("20190278008") or ("20190079230") or ("9256250") or ("20140218856") or ("10067535") or ("20190025881") or ("8723824") or ("20130076649") or ("8724304") or ("20130279088") or ("9110320") or ("20140049500") or ("20180356913") or ("10318029") or ("20180052540") or ("10055039") or ("20190037690") or ("10521034") or ("20190278394") or ("20160254465") or ("10361384") or ("20190049638") or ("10353123") or ("20140092346") or ("10455716") or ("20190104625") or ("10020462") or ("20160351855") or ("20180292864") or ("9947882")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 14:17
S510	33,483	G06F1/1601,1613,1626,163,1633,1637,1641,1652.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 14:18

S511	7,825	361/679.21-679.3,679.55,679.56.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 14:18
S512	5,977	349/56-60.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 14:18
S513	489	345/905.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 14:18
S514	55	("20120242588" | "20130021289" | "6188391" | "6323846" | "6690387" | "20120146886" | "20140197380" | "20090167171" | "20120127087" | "20130081756" | "20140092338" | "7034913" | "7541671" | "8723824" | "8787016" | "8929085" | "8947627" | "20130033434" | "20100026952" | "20130082984" | "5483261" | "5835079" | "7834451" | "8804347" | "20100253902" | "20120218219" | "20120243151" | "4066855" | "6310610" | "7663607" | "20060026521" | "20100315399" | "20130140965" | "4085302" | "7015894" | "7184064" | "8724304" | "8816977" | "9098242" | "20100164973" | "20090256471" | "20120249891" | "5488204" | "5880411" | "8690412" | "8934228" | "20110095975" | "20030048256" | "20060197753" | "20110086680" | "20130148315" | "5825352" | "6803245" | "8716932" | "20110050657").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 14:19
S542	3	"20150138723"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 21:24
S543	2	"20180164852"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/12 11:35
S544	2	"20160370828"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/12 11:35
S545	4	S543 S544	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/12 11:35
S546	2	"20060164808"	US-PGPUB;	OR	OFF	2020/02/15 12:37

			USPAT; USOCR			
S547	4	("20120218723" | "20130108813" | "20070216583" | "20130257662").PN.	US-PGPUB; USPAT	OR	OFF	2020/02/18 10:00
S548	2	("20070216583" | "20130257662").PN.	US-PGPUB; USPAT	OR	OFF	2020/02/18 10:01
S549	4	("20120218723" | "20130108813" | "20070216583" | "20130257662").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 10:04
S550	2	("20090179751" | "7983030").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 10:04
S551	3	("20070008227" | "20130234910" | "9059505").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 10:04
S552	9	S549 S550 S551	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 10:04
S553	6	("20070154318" | "9477269" | "9477269" | "20140009888" | "7096678" | "20140287675" | "7602606").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 10:30
S554	267	haughton.xa.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 10:41
S555	1,385	haughton.xp.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 10:41
S556	408	S555 and (laptop or (lap near top) or notebook)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 10:41
S557	100	S556 and (airflow or (air near flow) or cooling)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 10:41
S558	24	("20050023265" | "20080156004" | "20100165567" | "20100167636" | "20130027873" | "20130077241" | "20140092544" | "20140185219" | "4980848" |	US-PGPUB;	OR	OFF	2020/02/18 10:43

		"6069791" | "6078495" | "6091600" | "6175492" | "6256192" | "6459573" | "6496369" | "6816371" | "6909602" | "7457113" | "7894184" | "8369084" | "8515589" | "8520382" | "9104374").PN. OR ("10528100").URPN.	USPAT; USOCR			
S559	1	"20100165567"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 10:47
S560	202,872	("20030038567" | "6028768" | "D529503" | "6930881" | "5546334" | "6175492" | "6612668" | "7630195" | "6392871" | "20100214743" | "6191938" | "6762931" | "7733644" | "5490036" | "5764474" | "5168427" | "5534891" | "5754395" | "6091600" | "6771493" | "6853543" | "7894184" | "5539615" | "5729480" | "6008986" | "6307736" | "6459573" | "D306433" | "D621398")".PN"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 10:47
S561	2	"20130234910"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 10:58
S562	1	"9059505".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 10:59
S563	6	("20060282993" | "20070133156" | "20100246103" | "20120326003" | "20140151248" | "6922333").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 11:06
S564	3	("20080092333" | "20090021903" | "20090103261").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 11:09
S565	7	("20060282993" | "20070201689" | "20070246386" | "20090020570" | "20140221741" | "20150061881" | "8474669").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 11:09
S566	10	S564 S565	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 11:09
S567	1	S563 and S566	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 11:09
S568	1	"20180295733"	US-PGPUB;	OR	OFF	2020/02/18 11:16

			USPAT; USOCR			
S569	12	("20160299346" | "20130249778" | "20160054571" | "20130249778" | "5767820" | "20160062125" | "20170094816" | "20170367423" | "20180338130" | "20160249124" | "20190346682" | "20160249124" | "20180055202" | "20180321707").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 11:24
S570	3	("20140352113" | "20150159413" | "9057215").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 11:30
S571	10	("20050050686" | "20050122671" | "20090000062" | "20110304983" | "20130111704" | "20140223693" | "20150267450" | "20150345195" | "6045393" | "7512426").PN.	US-PGPUB; USPAT	OR	OFF	2020/02/18 11:31
S572	1	"4944401".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 11:44
S573	6	("20140290474" | "4944401" | "8670879" | "3906370" | "5366105" | "20070159789").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 11:50
S574	0	S573 and vacuum	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 11:50
S575	0	S573 and vacuum$4	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 11:51
S576	0	S573 and hermetic$4	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 11:51
S577	5	("3207354" | "5123538" | "6153720" | "20070095543").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 11:54
S578	12	("20120080465" | "6127802" | "20070285053" | "20130053145" | "5177665" | "20150220113" | "20070029359" | "20070152633" | "20120080465" | "6305217" | "20110101058" | "20140268544" | "7580255").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 11:58
S579	4	(("20150372403") or ("5164818") or ("20090207573") or ("20070081315")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 12:25

S580	1	S579 and film$3	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 12:31
S581	0	S579 and (electrically near insulat$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 12:31
S582	2	S579 and (flexible)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 12:31
S583	4	S579 and layer$1	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 12:31
S584	0	S579 and ((first and second) near layer$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 12:31
S585	0	S579 and ((first and second) near3 layer$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 12:31
S586	2	S580 S582	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 12:32
S587	4	S583 S586	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 12:32
S588	179	(("20200045822") or ("20020159238") or ("6723926") or ("20150211718") or ("20090163085") or ("8070534") or ("4902235") or ("6540558") or ("20080003892") or ("6094361") or ("20120009813") or ("3984166") or ("4675784") or ("4046442") or ("5788513") or ("4230385") or ("20070176613") or ("20050225313") or ("8031474") or ("20070068700") or ("7239158") or ("20060121722") or ("20190287892") or ("20100096168") or ("6573458") or ("5502889") or ("5893762") or ("20030096520") or ("20140151089") or ("5172472") or ("7596863") or ("9035191") or ("20080168651") or ("5220491") or ("5430608") or ("5688584") or ("4216576") or ("10541359") or ("6840783") or ("20030104712") or ("20180204998") or ("20160150648") or ("20080318447") or ("6872083") or ("5290970") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 12:33

		("20020031935") or ("5414224") or ("20030181076") or ("6778406") or ("6036518") or ("20140106578") or ("20130206468") or ("4871583") or ("20050136720") or ("7225538") or ("20140182898") or ("10257935") or ("5104327") or ("20100065963") or ("7077665") or ("5733136") or ("5727310") or ("9265148") or ("5800650") or ("20130100628") or ("6790064") or ("6273738") or ("7104825") or ("20030139071") or ("6835898") or ("20100208425") or ("5699613") or ("6541712") or ("7651345") or ("20070212920") or ("20170332490") or ("5152699") or ("7128579") or ("20140104776") or ("20150282297") or ("20050265671") or ("20180332704") or ("8834182") or ("10021783") or ("8004856") or ("5541567") or ("6580036") or ("20030168255") or ("10149384") or ("5147209") or ("6869750") or ("6110823") or ("20060124348") or ("20020150838") or ("6210236") or ("20150177779") or ("20070075726") or ("20080063342") or ("9320133") or ("4203013") or ("7484897") or ("6336269") or ("20010027875") or ("20010020545") or ("8485418") or ("20030141600") or ("20140104775") or ("5561594") or ("20140102626") or ("20070228110") or ("10057989") or ("4661654") or ("5758413") or ("7501839") or ("9746879") or ("7404680") or ("20110057018") or ("6727579") or ("6884945") or ("20040144564") or ("20110230064") or ("5313015") or ("20010020546") or ("20140308850") or ("4979787") or ("20110299288") or ("20190057923") or ("8403681") or ("8817458") or ("4674811") or ("20140045390") or ("6713792") or ("9270032") or ("RE37840") or ("20140104786")).PN. or (("20160227652") or ("9338895") or ("5557844") or ("20150077940") or ("8992236") or ("8902603") or ("5873161") or ("4563725") or ("6378201") or ("4610756") or ("20080230512") or ("20180168076") or ("9178294") or ("7748991") or ("20050244621") or ("6386913") or ("20140104766") or ("6224392") or ("7573359") or ("8837141") or ("20140106579") or ("20080020624") or ("5015191") or ("6325655") or ("20020117330") or ("9125313") or ("20020195271") or ("7518880") or ("20100319972") or ("8902606") or ("5479703") or ("20020142627") or ("6747217") or ("20120055701") or ("20150325958") or ("5487218") or ("8546696") or ("6373716") or ("20140004736") or ("6593535") or ("20150162678") or ("20010023781") or ("5527998") or ("8758030")).PN.				

S589	98	S588 and (electrically near insulat$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 12:34
S590	66	S589 and (flexible)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 12:34
S591	26	S590 and ((first and second) near layer$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 12:35
S592	24	S591 and pin$1	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 12:38
S593	3	S592 and blind	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 12:41
S594	18	S590 and blind	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 12:42
S595	15	S594 not S593	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 12:42
S596	1	("20190084485").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 12:58
S597	2	(("20190129477") or ("20190132968")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 12:59
S598	1	"4944401".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 13:01
S599	11	("5366105" | "3906370" | "4944401" | "20180258796" | "20060272838" | "5552608" | "20140290474" | "20180105063" | "20110068644" | "5508922" | "20160242598").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 13:03
S600	3	S599 and vacuum	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 13:03

S601	1	"4944401".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 13:28
S602	4,826	H05K1/184,115.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 13:44
S603	5,894	H05K3/0017,28,3447.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 13:44
S604	1,250	H05K5/0213.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 13:44
S605	2,137	H05K7/1412,20172,20863.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 13:44
S606	26,585	g06f1/16,1652,1681,1616,1637,1684,1613,1633.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 14:00
S607	8,314	H04M1/0268,0216,0214,02,0206.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 14:00
S608	0	"1652,1616,1637,1684,163,1643".CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 14:03
S609	29,518	G06F1/1652,1616,1637,1684,163,1643.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/18 14:03
S616	21	(("20190321864") or ("10493496") or ("20180345325") or ("20190321863") or ("10272474") or ("10562077") or ("20180093303") or ("10259019") or ("20140311928") or ("20180133759") or ("20180117636") or ("10259021") or ("10259020") or ("20170245732") or ("20170083049") or ("10372159") or ("20130301205") or ("20120200990") or ("8503174") or ("9696752") or ("20160284497")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/02 11:51

S617	12,237	G06F1/32,16,1601,1603,1605,1607,1609,1611.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/02 12:43
S618	1,392	B08B1/002,006.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/02 12:43
S619	12,380	361/679.01,679.02,679.21-679.3.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/02 12:44
S620	57	((("MAYFIELD") near3 ("Walter")) OR (("VALDEZ") near3 ("Daniel"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/03/02 12:44
S621	2,246	345/8.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/02 12:53
S622	12,513	361/679.21,679.26,679.3,679.55,679.56,679.01,679.02,679.03.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/02 12:53
S623	31,266	G06F1/1624,1626,163,1639,1647,1652,1666,1671,1694.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/02 12:53
S624	26,618	G06F3/011,014,0202,0221,045.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/02 12:53
S625	21	("0022007" | "0031997" | "0032002" | "0032003" | "0032007" | "0042002" | "0042004" | "0052001" | "0052006" | "0062001" | "0062003" | "0062004" | "0072002" | "0072003" | "0082004" | "0091998" | "0102001" | "0102004" | "0111999" | "0112003" | "0121993").PN.	US-PGPUB; USPAT	OR	OFF	2020/03/02 12:59
S626	7,028	g06f1/1669,1633,1637,1654.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/02 13:11

S627	8,945	361/679.21-679.3,679.41-679.44,679.55,679.56.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/02 13:12
S628	298	((("GILBERT") near3 ("Taylor")) OR (("TOM") near3 ("Kristine")) OR (("KIBITI") near3 ("Elvis")) OR (("CHAVEZ") near3 ("RUIZ") near3 ("GARZA") near3 ("Jaime")) OR (("MATZINGER") near3 ("Thomas")) OR (("LI") near3 ("Zhengyu")) OR (("BATES") near3 ("Charles")) OR (("HSIAO") near3 ("Shih-Hsiang")) OR (("LYON") near3 ("Johan"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/03/02 13:13
S629	14	(("10303209") or ("20170068282") or ("9946296") or ("20180196473") or ("9946295") or ("20170068281") or ("9905964") or ("20170070001") or ("10317953") or ("20180364769") or ("10082840") or ("20170364125") or ("9778705") or ("20170068286")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/02 13:14
S630	236	(("9094677") or ("20160349520") or ("9436009") or ("10191289") or ("10228761") or ("20180335833") or ("20140218269") or ("9081177") or ("20150277119") or ("20130335301") or ("9341849") or ("20160232717") or ("9552676") or ("9952662") or ("20170344105") or ("9442563") or ("9804682") or ("20130235331") or ("9261700") or ("20160231572") or ("10371944") or ("20130188080") or ("20160025978") or ("9210399") or ("20140022163") or ("20130044042") or ("9429772") or ("9075249") or ("9933623") or ("9164284") or ("8976085") or ("20130176626") or ("20160025973") or ("20170168296") or ("20150138064") or ("20160147309") or ("9285592") or ("10310265") or ("20160353098") or ("20100309097") or ("20200004327") or ("9936194") or ("9734633") or ("20180218543") or ("20130194259") or ("10573079") or ("20180063626") or ("20140145914") or ("10433044") or ("20200053450") or ("20170230760") or ("20060061555") or ("10536783") or ("7667962") or ("9851787") or ("20170230640") or ("20140292808") or ("10055887") or ("9244539") or ("20150193018") or ("20170249726") or ("20140347798") or ("9606358") or ("10163198") or ("8976516") or ("8644010") or ("20160328082") or ("10001832") or ("20180260021") or ("10509461") or ("9703369") or ("20090073084") or ("9217868") or ("20170287182") or ("20130208014") or ("20180217429") or ("20180004312") or ("20140306866") or ("10032299") or ("9147111") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/02 13:15

		("20080169998") or ("20170277253") or ("20130027572") or ("20150348327") or ("20150253862") or ("10163265") or ("20160147086") or ("10203761") or ("20160209658") or ("9606363") or ("20190331919") or ("9551873") or ("9335919") or ("20150235433") or ("20160019423") or ("9195067") or ("20150235429") or ("9091852") or ("10520782") or ("9766482") or ("20180075820") or ("20160350057") or ("20180365492") or ("20130258270") or ("20180075654") or ("10068553") or ("20190387299") or ("9928660") or ("10068374") or ("9599825") or ("20150177864") or ("20120249590") or ("10234939") or ("20170090203") or ("10126812") or ("20150235435") or ("20160129346") or ("20150146300") or ("20150309316") or ("20180072226") or ("20130249776") or ("20170168566") or ("10525335") or ("20140361956") or ("20190025587") or ("20170344114") or ("20150234463") or ("9958934") or ("9630098") or ("10282907")).PN. or (("10180572") or ("20190311796") or ("9967553") or ("20140028968") or ("20150235434") or ("20180131928") or ("9291823") or ("6320559") or ("20020126066") or ("10380776") or ("9142062") or ("9261701") or ("20150234462") or ("20120249591") or ("5977935") or ("20150177518") or ("9759917") or ("20190369714") or ("20180224929") or ("9784971") or ("10530915") or ("20120206335") or ("20170345194") or ("20190324274") or ("20150235610") or ("8990682") or ("20120194419") or ("10296104") or ("20140063055") or ("20170123209") or ("20130314303") or ("20120194552") or ("10379346") or ("20120194553") or ("20120194418") or ("20190197737") or ("20120206322") or ("10290120") or ("9285589") or ("20180024363") or ("9047698") or ("20120206334") or ("7113151") or ("20140063054") or ("20120200499") or ("10539806") or ("20120194551") or ("20120194420") or ("20180203239") or ("9529197") or ("20160014403") or ("9316836") or ("20170235380") or ("20120194549") or ("10261319") or ("20120194550") or ("10530914") or ("8922545") or ("20180268568") or ("20180024803") or ("20120200488") or ("20120206323") or ("20120249741") or ("20120206485") or ("20180252931") or ("9384594") or ("20120200601") or ("9875075") or ("10215990") or ("20120212414") or ("9961337") or				

		("20120212406") or ("8362973") or ("9202313") or ("20100295754") or ("10116924") or ("20110306413") or ("20150277841") or ("10477149") or ("20140204002") or ("9652047") or ("20180254019") or ("10417992") or ("20180130235") or ("20170235431") or ("10084990") or ("9813673") or ("10183231") or ("10409424") or ("10001857") or ("20190028674") or ("20170208292") or ("20170059871") or ("20150362733") or ("20170229095") or ("20130278631") or ("9972277") or ("20180063484") or ("20130300636") or ("10031576") or ("20190141291") or ("20160246384") or ("20190222830") or ("9703102") or ("20190391391") or ("20190361230")).PN.				
S631	6,346	h05k5/0017,03,061.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/02 13:35
S632	1,026	G05B11/01.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/02 13:36
S633	16,228	G05B15/02.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/02 13:36
S634	8	(("20120307431") or ("20190187630") or ("20160227664") or ("10254718") or ("9268319") or ("20160223996") or ("20120296447") or ("9261866")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/02 13:39
S635	209	((("CARLSON") near3 ("BRIAN")) OR (("CHERNIK") near3 ("RYAN")) OR (("DAHLGREN") near3 ("ARON")) OR (("NELSON") near3 ("WESLEY"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/03/02 13:39
S636	298	((("GILBERT") near3 ("Taylor")) OR (("TOM") near3 ("Kristine")) OR (("KIBITI") near3 ("Elvis")) OR (("CHAVEZ") near3 ("RUIZ") near3 ("GARZA") near3 ("Jaime")) OR (("MATZINGER") near3 ("Thomas")) OR (("LI") near3 ("Zhengyu")) OR (("BATES") near3 ("Charles")) OR (("HSIAO") near3 ("Shih-Hsiang")) OR (("LYON") near3 ("Johan"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/03/02 13:39

S645	0	("("20100007609" | "20160192510" | "20130076575" | "3650312" | "6054939" | "20030007323" | "9176527").PN.").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/12 11:01
S646	7	("20100007609" | "20160192510" | "20130076575" | "3650312" | "6054939" | "20030007323" | "9176527").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/12 11:02
S647	3,862	361/724-727.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 12:18
S648	5,233	H05K5/00,02,0204,0217.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 12:18
S649	6,892	G06F1/18,181,183.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 12:18
S650	6,028	h05k7/1485,1488,1489,18,183,186,1401,14,00.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 12:18
S651	222	((("HARTMAN") near3 ("Corey")) OR (("LIN") near3 ("Yu-Feng"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/03/16 12:18
S652	1,158	(("20190291792") or ("20190016398") or ("10363978") or ("5661630") or ("20020053122") or ("6425706") or ("20040060918") or ("6740851") or ("20190069442") or ("20180372978") or ("20070001565") or ("10585258") or ("5973926") or ("3434099") or ("20100053855") or ("7724506") or ("5673982") or ("20140049101") or ("6345429") or ("20100202623") or ("20110305350") or ("20150370025") or ("20170315321") or ("6255583") or ("20080049949") or ("20170315320") or ("10359593") or ("20200018915") or ("9709765") or ("10126513") or ("5777821") or ("20030067741") or ("6166920") or ("20110292616") or ("5457608") or ("6570756") or ("8947860") or ("7400508") or ("6893173") or ("20040096257") or ("20160261227") or ("8087165") or ("6661651") or ("20190097574") or ("10345862") or ("20090017675") or ("10171027")	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 12:19

		or ("20130259260") or ("8498126") or ("20140146482") or ("9013881") or ("20140027391") or ("20190136575") or ("20020195908") or ("20170275915") or ("20190136581") or ("8689486") or ("6373690") or ("20080012456") or ("20100008051") or ("6264480") or ("6542383") or ("6570755") or ("4906201") or ("5978232") or ("6597577") or ("4737888") or ("20110068243") or ("6473309") or ("20030129020") or ("20020196603") or ("7848102") or ("4721473") or ("8074948") or ("6665178") or ("7733659") or ("4124267") or ("20170241455") or ("20110292609") or ("20110292769") or ("20170031165") or ("8625292") or ("20110299261") or ("20100205622") or ("20100186217") or ("6477053") or ("9926956") or ("8493739") or ("20140023205") or ("20110299700") or ("20020101709") or ("20110299251") or ("20060214082") or ("20020151226") or ("8625293") or ("20110301906") or ("8035976") or ("20020141148") or ("20110299698") or ("5738064") or ("20140036460") or ("6357603") or ("20150156928") or ("20140160683") or ("8284559") or ("20110299699") or ("8731862") or ("8599568") or ("8593821") or ("8477509") or ("8988884") or ("9173332") or ("8570757") or ("20120243198") or ("9119288") or ("20060268506") or ("20120250880") or ("20120244827") or ("20140016274") or ("7883099") or ("8724335") or ("8749988") or ("9237683") or ("20070002530") or ("8830687") or ("10139637") or ("8982561") or ("20170151972") or ("20050026493") or ("7360304") or ("6114626") or ("10133312") or ("6443768")).PN. or (("6452793") or ("20080003889") or ("7614149") or ("20110084518") or ("7707718") or ("6056080") or ("6373707") or ("20060268509") or ("8240746") or ("20130333941") or ("6628516") or ("20150375806") or ("7262958") or ("20180314304") or ("6823588") or ("9271430") or ("9586631") or ("3289044") or ("20110274287") or ("6741466") or ("8749991") or ("10317955") or ("6934162") or ("5326115") or ("6183185") or ("6297948") or ("20050094366") or ("6421911") or ("7054153") or ("20160259380") or ("20150131220") or ("5666239") or ("8995115") or ("20040263790") or ("20120099264") or ("10061361") or ("20170257968") or ("9647157") or ("20140026946") or ("20020075581") or ("20180372977") or ("8339775") or ("20070171657") or ("4310870") or ("5680293") or ("20130003280") or ("20110304972") or				

		("10499526") or ("6519101") or ("9829932") or ("7708301") or ("20020089829") or ("20130279107") or ("6384993") or ("7887074") or ("20200056883") or ("20080315560") or ("20090036021") or ("10146271") or ("3363957") or ("10349547") or ("20160021774") or ("20040100767") or ("6672914") or ("7097507") or ("20140001719") or ("20190278039") or ("20160327986") or ("8451598") or ("20170210269") or ("8897001") or ("20040129487") or ("7107675") or ("20160167559") or ("7600294") or ("20080078057") or ("20150338883") or ("10133314") or ("8777324") or ("20150338887") or ("20170217464") or ("5396400") or ("20110049824") or ("7461955") or ("20130286577") or ("20160327980") or ("20140111929") or ("20130069417") or ("6385051") or ("20070171648") or ("7213673") or ("4985604") or ("20180232016") or ("20040194221") or ("20120250487") or ("7654706") or ("20020142636") or ("9648768") or ("20090252015") or ("20150375808") or ("6760220") or ("20120106067") or ("8854829") or ("20160340844") or ("20010001637") or ("9784907") or ("9132562") or ("20060256541") or ("20170233960") or ("8411434") or ("20160120047") or ("10106180") or ("20070171659") or ("6880202") or ("10126783") or ("20040120106") or ("8936258") or ("20100142143") or ("9925904") or ("9499216") or ("20070171658") or ("9739022") or ("20130340295") or ("20160044831") or ("9411380") or ("9839255") or ("20150166135") or ("8018107") or ("6682368") or ("8869338") or ("8567796") or ("9637877") or ("5938050")).PN. or (("9439308") or ("7559796") or ("20100188812") or ("8488422") or ("20170313231") or ("6087575") or ("5168428") or ("20170291658") or ("20100065593") or ("20060103220") or ("8182319") or ("9142492") or ("4113337") or ("20180081139") or ("20160018589") or ("10261281") or ("20200003983") or ("6058579") or ("6158699") or ("10228721") or ("6203130") or ("20160050793") or ("5746617") or ("20070171643") or ("6655995") or ("20170003718") or ("20140265376") or ("20140183710") or ("20040105219") or ("20120051000") or ("8231036") or ("5467254") or ("20140208602") or ("4644614") or ("20060139868") or ("9969318") or ("7414856") or ("9688178") or ("20170276893") or ("20150366296") or ("4669028") or				

		("20130031810") or ("9426929") or ("10496137") or ("8120904") or ("20120307448") or ("5666713") or ("8592960") or ("7200003") or ("5551824") or ("6597584") or ("9157720") or ("20100328905") or ("8469557") or ("7377672") or ("20070171660") or ("20110019964") or ("7481557") or ("9725928") or ("6304436") or ("20140254169") or ("4396208") or ("20060198092") or ("20180364435") or ("5950754") or ("8248315") or ("7240967") or ("20070171652") or ("6362978") or ("6437980") or ("9289032") or ("20110162157") or ("6270066") or ("8494329") or ("20120218725") or ("20030206397") or ("20150336710") or ("20120212914") or ("20070171653") or ("10082634") or ("20060168773") or ("7450371") or ("20130129299") or ("20100278498") or ("20140111928") or ("20080068789") or ("9139237") or ("8072781") or ("20140347831") or ("20070268661") or ("6477042") or ("8760886") or ("20140133820") or ("20100166211") or ("20180119453") or ("8077468") or ("7545636") or ("20160109673") or ("20020092201") or ("20100277379") or ("20090141457") or ("7357538") or ("20170235071") or ("8316499") or ("20120033927") or ("6174126") or ("20110222195") or ("20130334381") or ("5146815") or ("20190049683") or ("20180125324") or ("6176001") or ("6327148") or ("7885505") or ("10502917") or ("8243402") or ("8627552") or ("8264856") or ("20120160978") or ("20180231730") or ("20140111926") or ("8649133") or ("20060046557") or ("6929133") or ("5813824") or ("4746134") or ("20130215542") or ("7182623") or ("9061584") or ("5854869") or ("6661673") or ("20080007670") or ("4456414") or ("20160046309")).PN. or (("7726847") or ("5913581") or ("8897007") or ("20180007806") or ("8599548") or ("20160026027") or ("9566990") or ("20170068280") or ("6975511") or ("5408570") or ("20190237848") or ("20070246695") or ("20110304974") or ("20180309239") or ("20190196608") or ("9538632") or ("5462295") or ("20160355077") or ("20080044630") or ("20170210268") or ("3050194") or ("10070554") or ("20070115587") or ("8493727") or ("10461474") or ("7196828") or ("8340491") or ("20020054360") or ("9762844") or ("7140903") or ("4915636") or ("20110255233") or ("10396431") or ("2873998") or ("3573366") or ("9971384") or ("5459808") or ("6122164") or ("3325692") or ("3381974") or ("20130070409") or ("20050168932") or ("10376129") or ("20100110653") or ("7484715") or ("20050018390") or ("8066321") or ("9643629") or				

		("6822858") or ("20090316371") or ("9499034") or ("9500893") or ("20060109618") or ("9568700") or ("8634192") or ("20180175568") or ("7289317") or ("20170273212") or ("7133290") or ("9823509") or ("9891398") or ("20160372877") or ("9237685") or ("8152552") or ("6570761") or ("9775261") or ("20100328556") or ("20080205028") or ("4623946") or ("20130286574") or ("8625305") or ("9955608") or ("9595798") or ("20100033925") or ("10150399") or ("20190196544") or ("20170222367") or ("6900984") or ("20100254078") or ("20150253160") or ("20090279267") or ("2935554") or ("20190389666") or ("20160109089") or ("20140375181") or ("20130286582") or ("20020182974") or ("7158372") or ("20040150947") or ("6301107") or ("9632255") or ("20140098512") or ("20170256890") or ("4772965") or ("20130183000") or ("20040025449") or ("20090154134") or ("7916502") or ("20190220065") or ("8923000") or ("20150277491") or ("20090145696") or ("20160355143") or ("10056717") or ("20110032672") or ("6603657") or ("6972949") or ("10416710") or ("20070216116") or ("7983057") or ("20070223236") or ("20110083893") or ("20180335595") or ("20110266278") or ("20140153143") or ("6109710") or ("10310206") or ("6295202") or ("7859858") or ("20050128723") or ("20020097558") or ("9722357") or ("20150367727") or ("5700068") or ("7974092") or ("20160353593") or ("8105109") or ("20070183707") or ("6920721") or ("20120106752") or ("9042119") or ("20190196543") or ("20150163922")).PN. or (("9665125") or ("9952635") or ("20090186520") or ("9030789") or ("3941951") or ("20190227250") or ("20110310575") or ("8944449") or ("8164911") or ("20120231319") or ("5552959") or ("9829655") or ("20110136554") or ("20110136551") or ("20170217388") or ("20020029920") or ("20030000761") or ("5707244") or ("20060114663") or ("8681507") or ("20180120906") or ("5721669") or ("20020118526") or ("9358359") or ("10493837") or ("20020189884") or ("6239358") or ("9132543") or ("20070223235") or ("4233643") or ("20030000760") or ("6366460") or ("9836080") or ("20040150948") or ("5553673") or ("20120026678") or ("9223345") or ("9854683") or ("7854460") or ("7896693") or ("20160282652") or ("10042399") or ("20080074831") or ("3727421") or ("4538875") or ("20070223239") or				

		("20040140171") or ("6982878") or ("8611103") or ("20060002098") or ("20130107424") or ("10087009") or ("20070115616") or ("8379399") or ("20150348593") or ("20050180098") or ("20160124465") or ("10401902") or ("10481634") or ("7019967") or ("20140346763") or ("20110262077") or ("9868408") or ("20070223237") or ("20150076982") or ("7362926") or ("20140092546") or ("20180110152") or ("20180222024") or ("20060237502") or ("20150277513") or ("20080014093") or ("20020154474") or ("20070165373") or ("20100002393") or ("7967335") or ("20080204995") or ("9798177") or ("2483801") or ("20060267466") or ("5600538") or ("20110132855") or ("20130215398") or ("9269400") or ("20180071155") or ("20070274043") or ("9798357") or ("10257956") or ("8605459") or ("20170146431") or ("3386012") or ("8279596") or ("8967669") or ("20130188327") or ("20050117292") or ("9946315") or ("7639499") or ("20020181212") or ("20020181219") or ("20090146120") or ("5915820") or ("20060120035") or ("20150210319") or ("9217501") or ("20190200836") or ("20060152896") or ("20180242442") or ("4827378") or ("10053150") or ("20090097200") or ("20180246548") or ("5292275") or ("20100019464") or ("5662342") or ("9211924") or ("6595311") or ("7450373") or ("20140175782") or ("20140175783") or ("6658766") or ("20180070469") or ("20190107678") or ("6707686") or ("8614890") or ("20160355142") or ("10237965") or ("9235237") or ("20200032649") or ("20140286610") or ("5379185") or ("8879243") or ("20160044802")).PN. or (("7414852") or ("10473864") or ("9120372") or ("20170300095") or ("7321487") or ("7810792") or ("10337936") or ("5347430") or ("20100294733") or ("6349039") or ("20070223234") or ("4027206") or ("10051758") or ("7324348") or ("9969259") or ("9365251") or ("6940730") or ("6974014") or ("10369886") or ("7963535") or ("20130327556") or ("4921266") or ("20150298707") or ("20020030976") or ("4953058") or ("8876301") or ("6038892") or ("20120262876") or ("8549752") or ("20170293087") or ("6651768") or ("20120223514") or ("20090268411") or ("20160255744") or ("9321494") or ("20140271076") or ("6424537") or ("5813791") or ("7864545") or ("20040216909") or ("6695087") or ("6604600") or ("7817431") or ("7522415") or ("9706678") or ("7457111") or ("20100142910") or				

		("7461957") or ("8919886") or ("6122167") or ("20090040698") or ("20120193965") or ("4235299") or ("10248171") or ("7463490") or ("8317213") or ("20030151903") or ("20020118525") or ("9139409") or ("7945138") or ("9287724") or ("7301761") or ("20200018106") or ("6178091") or ("9674979") or ("7570487") or ("5338050") or ("6891728") or ("20190059684") or ("20060264151") or ("20050122676") or ("7022916") or ("20020114145") or ("8690593") or ("10088636") or ("20110273860") or ("5167563") or ("9694451") or ("5174539") or ("9141153") or ("6771512") or ("8811005") or ("6878872") or ("4561085") or ("5587879") or ("4047588") or ("9317081") or ("20150070828") or ("20180126546") or ("9457652") or ("20170094828") or ("9783207") or ("20070221797") or ("5684271") or ("5441289") or ("9475319") or ("8896994") or ("3012835") or ("20110038120") or ("9888607") or ("6522556") or ("20070025095") or ("20050122701") or ("6590782") or ("6053692") or ("20110228469") or ("20090110360") or ("20160075156") or ("6450837") or ("20170072791") or ("9370120") or ("7751673") or ("20020118524") or ("20100002378") or ("6356075") or ("8727048") or ("20070084648") or ("2741492") or ("7835147") or ("10144280") or ("7639510") or ("20150072606") or ("4475304") or ("7995347") or ("20170074453") or ("5511282") or ("5660428") or ("20080278904") or ("6065676") or ("6288329") or ("20030222550") or ("20170275921") or ("6239979") or ("2752219") or ("6487089") or ("8235412") or ("20090134605") or ("20050236808")).PN. or (("7495931") or ("20120250284") or ("10146272") or ("10154605") or ("20060274225") or ("20160202739") or ("10264944") or ("4361372") or ("20160120093") or ("4888236") or ("20060292966") or ("7258569") or ("20180359876") or ("7453707") or ("5901981") or ("20170246055") or ("20150093089") or ("20140273585") or ("7478889") or ("8050028") or ("20190061834") or ("20090009954") or ("20110304968") or ("3258735") or ("7057900") or ("20080090511") or ("20190084415") or ("20040218368") or ("20010026443") or ("9823690") or ("20120057297") or ("20100220433") or ("20090154129") or ("6299479") or ("7054163") or ("20020053818") or ("4037678") or ("20100266254") or ("9474206") or ("20180050872") or ("8320115") or ("6626490") or ("20030147230") or ("20070138805") or ("6637845") or ("6326562") or ("20180185606") or ("7379302") or ("10159610") or ("5021763") or				

		("7100898") or ("5310239") or ("8311380") or ("7715210") or ("6379183") or ("10019029") or ("3147402") or ("7990736") or ("7660112") or ("20070247825") or ("20140346762") or ("20110240395") or ("20090046438") or ("20140043751") or ("6771516") or ("8451600") or ("20060236449") or ("20200037457") or ("8961217") or ("20100320803") or ("7255234") or ("20080048958") or ("20160073560") or ("6276041") or ("20020063099") or ("20190083331") or ("20110013359") or ("20100326163") or ("20090045636") or ("20110233894") or ("6636422") or ("20170188701") or ("5934019") or ("7101189") or ("4604910") or ("6930886") or ("8605426") or ("20050162838") or ("20110132641") or ("6891735") or ("2941816") or ("7570486") or ("2228107") or ("20160073501") or ("20180143379") or ("8240485") or ("7758308") or ("5388792") or ("4881843") or ("6402549") or ("20090195035") or ("8351211") or ("9116674") or ("5073353") or ("20120281346") or ("6402565") or ("20160357229") or ("8052201") or ("20010048585") or ("20110240394") or ("7453706") or ("20060268501") or ("2077751") or ("5392192") or ("20050122677") or ("9699903") or ("20110193460") or ("20200041362") or ("20040080904") or ("20080212270") or ("9433095") or ("8270183") or ("20160259129") or ("6383031") or ("6483107") or ("6272721") or ("5852546") or ("8359897") or ("20070153482") or ("20150323966") or ("20190090374") or ("8218306") or ("20180055698")).PN. or (("6424538") or ("6667879") or ("5541809") or ("20190294840") or ("20120326813") or ("10295774") or ("20090188100") or ("7367638") or ("7690055") or ("20060139866") or ("20110170257") or ("7121857") or ("9579006") or ("8522911") or ("20140353935") or ("8936275") or ("20060216980") or ("20100073859") or ("20040120123") or ("9720462") or ("20070008684") or ("6244510") or ("20060198098") or ("20040120114") or ("7961465") or ("10070719") or ("5997326") or ("7692918") or ("7940287") or ("20160251058") or ("20050190546") or ("6760229") or ("8553172") or ("7298624") or ("20170334288") or ("9321509") or ("7218526") or ("4063788") or ("7239528") or ("20190105986") or ("9182068") or ("3226130") or ("9829642") or ("4850657") or ("20070082536") or ("20050254772") or ("20060198089") or ("20180147936") or ("20070139902") or ("20090000835") or ("20150166143") or				

		("7443695") or ("7315449") or ("7110264") or ("6217360") or ("10588238") or ("20200038256") or ("20050039024") or ("6437988") or ("20170006722") or ("20140369793") or ("7701714") or ("6761236") or ("7753161") or ("20090263222") or ("6196658") or ("7214087") or ("20190327859") or ("20190041909") or ("9093234") or ("20030171033") or ("20160057850") or ("9886069") or ("20150059124") or ("20050160592") or ("2893674") or ("9386723") or ("9908406") or ("20030168262") or ("20030011979") or ("20180325218") or ("20190339472") or ("9823508") or ("8517136") or ("10138047") or ("20070177342") or ("20150230353") or ("20120057838") or ("4822316") or ("6708593") or ("20150305447") or ("20190387645") or ("9974200") or ("5387130") or ("7948576") or ("10183576") or ("20160077300") or ("20140104807") or ("6956744") or ("8540475") or ("6666720") or ("20140239782") or ("20050270737") or ("20070076384") or ("7400499") or ("20050111187") or ("20160136691") or ("5211459") or ("7280349") or ("20140126125") or ("20090059485") or ("9302692") or ("7245484") or ("6412749") or ("20090101671") or ("20090009943") or ("7639506") or ("6278607") or ("20110242434") or ("10111356") or ("20170239104") or ("5775825") or ("20120219115") or ("20030161108") or ("20030169581") or ("8059932") or ("20090324189") or ("8267210") or ("10368461") or ("20190152548") or ("20160316905") or ("6752663") or ("10324503")).PN. or (("20120170179") or ("20030171016") or ("2658101") or ("20170290190") or ("7545632") or ("8374477") or ("5025906") or ("20190186589") or ("20130048631") or ("20190029139") or ("20120300490") or ("9585284") or ("8102648") or ("20070009345") or ("9211840") or ("20030007335") or ("20130001247") or ("20180328157") or ("6588866") or ("5497292") or ("20060041783") or ("20040048517") or ("6992886") or ("10470943") or ("20160379531") or ("20060274486") or ("9457381") or ("8988846") or ("5764616") or ("20060058077") or ("20020042982") or ("9197050") or ("10028551") or ("8223488") or ("5030865") or ("20190350772") or ("9633583") or ("10321590") or ("8279611") or ("20140059937") or ("20040095718") or ("20170235084") or ("20020027028") or ("20040212967") or ("20070119792") or ("6011699") or ("20020021024") or ("6011701") or				

		("20170274269") or ("7017258") or ("5691504") or ("20190317294") or ("10526130") or ("20020158556") or ("8261950") or ("9036341") or ("9541726") or ("20160345731") or ("20170135243") or ("20080144293") or ("20040190276") or ("20020189876") or ("7280352") or ("8047383") or ("7271999") or ("20100232749") or ("7079392") or ("20080130219")).PN.				
S653	1,192	(("20190016398") or ("10363978") or ("20190291792") or ("20020196603") or ("20190069442") or ("6665178") or ("20070001565") or ("20020053122") or ("6425706") or ("10345862") or ("20020195908") or ("6570755") or ("5661630") or ("20180372978") or ("10585258") or ("5777821") or ("20100110653") or ("6255583") or ("20170031165") or ("20160261227") or ("8625305") or ("10133312") or ("20190097574") or ("10171027") or ("20140027391") or ("8689486") or ("10139637") or ("20040060918") or ("20180314304") or ("6740851") or ("20190136575") or ("10317955") or ("20190136581") or ("20090017675") or ("20100053855") or ("20120099264") or ("8248315") or ("6893173") or ("7724506") or ("20140111929") or ("6345429") or ("8995115") or ("20160021774") or ("8102648") or ("20160109089") or ("20150131220") or ("9823509") or ("20160259380") or ("9762844") or ("20100277379") or ("8339775") or ("10061361") or ("20040129487") or ("20150370025") or ("20130003280") or ("7213673") or ("20140111928") or ("9829932") or ("20170315321") or ("9648768") or ("20150076982") or ("9269400") or ("3573366") or ("20170315320") or ("9709765") or ("20110274287") or ("8749991") or ("10359593") or ("20200018915") or ("6373690") or ("10126513") or ("8897007") or ("20040096257") or ("20160167559") or ("6443768") or ("20170210269") or ("7708301") or ("6203130") or ("20110032672") or ("20020054360") or ("20080315560") or ("20100309620") or ("20160044802") or ("20060256541") or ("7196828") or ("20110136551") or ("6597584") or ("20150166135") or ("9925904") or ("20190196608") or ("20110136554") or ("5973926") or ("20140049101") or ("20100202623") or ("6183185") or ("7414856") or ("20100188812") or ("20180232016") or ("6477053") or ("7453707") or ("20050180098") or ("20150338887") or ("8777324") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 12:20

		("20150338883") or ("7559796") or ("20070025095") or ("20130069417") or ("9688178") or ("20080049949") or ("10133314") or ("20110305350") or ("20110222195") or ("20130215398") or ("6661651") or ("20100278498") or ("8120904") or ("20060139868") or ("20160327980") or ("20130129299") or ("7885505") or ("20060152896") or ("20160026027") or ("20140133820") or ("8243402") or ("20120033927") or ("20160109673") or ("20160327986") or ("5666713") or ("20170235071") or ("6741466")).PN. or (("7321487") or ("7200003") or ("10146271") or ("8876301") or ("20130327556") or ("20010001637") or ("6900984") or ("20190049683") or ("20070268661") or ("7545636") or ("9411380") or ("6327148") or ("7463490") or ("10126783") or ("20130215542") or ("8649133") or ("9500893") or ("9784907") or ("20160353593") or ("8340491") or ("20080012456") or ("8811005") or ("20070274043") or ("20190278039") or ("6264480") or ("8944449") or ("7258569") or ("20200032649") or ("8494329") or ("20070115587") or ("10228721") or ("20110292616") or ("7182623") or ("6661673") or ("9568700") or ("4396208") or ("20110162157") or ("20190174905") or ("9836080") or ("20020182974") or ("6542383") or ("20190389666") or ("20160018589") or ("8947860") or ("20180335595") or ("7289317") or ("20170003718") or ("4737888") or ("20110019964") or ("20090252015") or ("9891398") or ("20050168932") or ("10310206") or ("20140153143") or ("20060267466") or ("4124267") or ("8316499") or ("6114626") or ("20180226704") or ("20190227250") or ("20040194221") or ("5666239") or ("8087165") or ("20170291658") or ("20130259260") or ("20110255233") or ("20080003889") or ("10490869") or ("20100008051") or ("20180372977") or ("9030789") or ("5551824") or ("20160057850") or ("20140146482") or ("7019967") or ("8018107") or ("8152552") or ("6972949") or ("20140271076") or ("5146815") or ("3727421") or ("20110304972") or ("8498126") or ("5379185") or ("6880202") or ("6058579") or ("5662342") or ("9823508") or ("20070008684") or ("9013881") or ("4985604") or ("5673982") or ("8451598") or ("6295202") or ("20130188327") or ("6087575") or ("20130286577") or ("20190175320") or ("9139409") or				

		("20160282652") or ("20090045636") or ("20050117292") or ("20070183707") or ("20070165373") or ("20020154474") or ("10499526") or ("6373707") or ("7848102") or ("20080068789") or ("20090186520") or ("20100328556") or ("20110083893") or ("7280349") or ("20180242442") or ("20050094366") or ("10237965") or ("9952635") or ("20190076003") or ("8869338") or ("6109710") or ("20190290269") or ("8854829") or ("8879243") or ("20110068243") or ("20110038120") or ("8411434") or ("20140111926") or ("20170257968") or ("20100065593") or ("4538875") or ("20120106067") or ("4906201") or ("20070246695")).PN. or (("9798177") or ("6166920") or ("20140254169") or ("9132562") or ("6239358") or ("3434099") or ("7054153") or ("3363957") or ("6174126") or ("8105109") or ("20170276893") or ("7457111") or ("9955608") or ("20060268501") or ("8231036") or ("7362926") or ("20090040698") or ("20170273212") or ("7478889") or ("20060120035") or ("8050028") or ("20150277513") or ("7896693") or ("20180081139") or ("9538632") or ("8074948") or ("20120057297") or ("4623946") or ("20100142143") or ("7484715") or ("20020101709") or ("20060268509") or ("7262958") or ("20020151226") or ("6178091") or ("5813824") or ("20020118526") or ("20020141148") or ("20140023396") or ("20200003983") or ("20110233894") or ("20170210268") or ("7701714") or ("20080078057") or ("20170068280") or ("6385051") or ("20180364435") or ("7835147") or ("6297948") or ("20140043751") or ("20030067741") or ("20130162915") or ("8182319") or ("8605426") or ("20030151903") or ("7733659") or ("9116674") or ("20190237848") or ("4669028") or ("10261281") or ("20170336596") or ("20060268506") or ("20120250487") or ("9031464") or ("10082634") or ("4644614") or ("20060002098") or ("20160044831") or ("9885851") or ("9971384") or ("20070171648") or ("7367638") or ("20070171658") or ("7301761") or ("20060077104") or ("20110084518") or ("20140026946") or ("6570756") or ("20080204995") or ("20170217388") or ("20170241455") or ("4827378") or ("9127814") or ("10396431") or ("20070002530") or ("20140111914") or ("9211924") or ("5813791") or ("9030839") or ("20110132641") or ("20100205622") or ("9839255") or ("9647157") or ("7600294") or ("20110292609") or				

		("20060214082") or ("20110299261") or ("7461955") or ("20130340295") or ("8240746") or ("20180094765") or ("5467254") or ("20110292769") or ("6122164") or ("6304436") or ("10150399") or ("20170313231") or ("20110299700") or ("20070171659") or ("7271771") or ("20140023205") or ("20190200836") or ("5292275") or ("20050026493") or ("20060114663") or ("8625292") or ("20100186217") or ("5326115") or ("20120295486") or ("20150323966") or ("6934162") or ("6707686") or ("10054254") or ("20140036460") or ("20110299251") or ("20120326813") or ("20080278904") or ("9720462") or ("9868408") or ("9926956") or ("20070171657") or ("5885130")).PN. or (("20120206873") or ("20110301906") or ("8493739") or ("4721473") or ("9223336") or ("20180226703") or ("6132287") or ("20150156928") or ("8625293") or ("20110299699") or ("20110299698") or ("8035976") or ("6655995") or ("20170275915") or ("8488422") or ("20020118525") or ("20140160683") or ("6413103") or ("6452793") or ("8576562") or ("9173332") or ("20120243198") or ("8284559") or ("5167563") or ("8988884") or ("20060103220") or ("6940730") or ("3289044") or ("8599568") or ("8477509") or ("20140016274") or ("20180052236") or ("20080003854") or ("7324348") or ("8593821") or ("9119288") or ("20120250880") or ("20070076384") or ("8570757") or ("7707718") or ("8731862") or ("5660428") or ("6412749") or ("20180226702") or ("20170340834") or ("6122167") or ("7614149") or ("20120244827") or ("9969318") or ("8279611") or ("20180125324") or ("6628516") or ("6357603") or ("20070171660") or ("6056080") or ("8749988") or ("8724335") or ("10024970") or ("6590782") or ("20090146120") or ("7360304") or ("9237683") or ("20070171643") or ("20110242434") or ("8982561") or ("20160362145") or ("20130093966") or ("8077468") or ("8830687") or ("20130279107") or ("20180094764") or ("20080080134") or ("20180185606") or ("8469557") or ("20020089829") or ("20130333941") or ("7377672") or ("20110240395") or ("20120250284") or ("20140001719") or ("6597577") or ("20110013359") or ("7660112") or ("7864545") or ("7810792") or ("20110049824") or ("20040140171") or ("9775261") or ("20150298707") or ("5696753") or ("20180120906") or ("20170151972") or				

		("7639510") or ("20080253086") or ("8897001") or ("10087009") or ("20110240394") or ("10167990") or ("7391610") or ("20090279267") or ("20090141457") or ("9694451") or ("20070171652") or ("20150366296") or ("9586631") or ("8522911") or ("20130031810") or ("9271430") or ("20130286582") or ("20150375806") or ("7961465") or ("20140208602") or ("20150253160") or ("20180007806") or ("20180222532") or ("20180222024") or ("8896994") or ("7916502") or ("20110242435") or ("20130183000") or ("10376129") or ("5978232") or ("5541809") or ("20080205028") or ("6473309") or ("7133290") or ("7481557") or ("20060203435") or ("10070554") or ("9217501") or ("20130328741") or ("9182068") or ("7654706") or ("7525798")).PN. or (("10502917") or ("20020142636") or ("9783207") or ("20060109618") or ("20070171653") or ("20180231730") or ("20130088820") or ("8567796") or ("8936258") or ("20140126125") or ("7400508") or ("7859858") or ("9289032") or ("7433176") or ("6823588") or ("8517136") or ("20170217464") or ("20080074831") or ("5338050") or ("20030007335") or ("20190045714") or ("20040216909") or ("9157720") or ("20190309956") or ("8897002") or ("10086878") or ("20060274225") or ("20190059684") or ("6974014") or ("8988867") or ("9969259") or ("20130134276") or ("20110304974") or ("20160091747") or ("9829655") or ("20160120047") or ("20180071155") or ("7357538") or ("8493727") or ("9632255") or ("20100258425") or ("20110221978") or ("20110187957") or ("20030102641") or ("6878872") or ("10369886") or ("20070216116") or ("20170117608") or ("10347956") or ("20190186589") or ("20060046557") or ("9365251") or ("20190196544") or ("8451600") or ("9223345") or ("6379183") or ("20110157481") or ("6682368") or ("20110262077") or ("20090134605") or ("9321494") or ("10106180") or ("20040009734") or ("4763100") or ("4850657") or ("9917347") or ("20200042051") or ("7379302") or ("6672914") or ("20180087380") or ("9706678") or ("20040190276") or ("20180226701") or ("7240967") or ("20080149805") or ("8760599") or ("9439308") or ("7450373") or ("20080048958") or ("4881843") or ("8263889") or ("20040212967") or ("20160212884") or ("20070115616") or ("20160075156") or ("5457608") or ("10264944") or ("4113337") or ("20040253842") or ("10416710") or				

		("20120169942") or ("8235412") or ("20090110360") or ("7140903") or ("20160340844") or ("6891728") or ("10306997") or ("20190107678") or ("8605459") or ("7751673") or ("9475319") or ("9596772") or ("20140286610") or ("20170233960") or ("5938050") or ("20190116993") or ("20110304968") or ("20140160653") or ("20060168773") or ("20120051000") or ("8398254") or ("20170293087") or ("7773373") or ("20100296004") or ("5700068") or ("20150289741") or ("6402549") or ("8833832") or ("7057900") or ("7097507") or ("20170150641") or ("6196658") or ("4475304") or ("9739022") or ("5396400") or ("8807805") or ("20140346763") or ("20160048163") or ("7817431") or ("20140183710") or ("6975511") or ("7940287") or ("20180339564")).PN. or (("9465413") or ("20190196543") or ("20120087136") or ("9142492") or ("10405454") or ("8777496") or ("10473864") or ("20090046438") or ("20160050793") or ("20090167811") or ("7775642") or ("20100288718") or ("9637877") or ("20070223236") or ("20070070587") or ("10550693") or ("7515413") or ("20180192529") or ("3258735") or ("7095622") or ("20020092201") or ("20040182671") or ("7051855") or ("5950754") or ("20120231319") or ("8351211") or ("20090268411") or ("4772965") or ("20190174906") or ("8967669") or ("20100266254") or ("5721669") or ("20040246693") or ("8627552") or ("20120300490") or ("20020029920") or ("4953058") or ("7726847") or ("8592960") or ("5021763") or ("10088636") or ("7298607") or ("8690593") or ("7107675") or ("20130043703") or ("10228720") or ("6437980") or ("20050018390") or ("20180051562") or ("8311380") or ("20120128450") or ("20050236808") or ("20030000761") or ("10481634") or ("20120208150") or ("20170240215") or ("20180050872") or ("20020189884") or ("20120223514") or ("9426929") or ("20150336710") or ("20030000760") or ("20170346971") or ("20040120106") or ("20020118524") or ("9656386") or ("20160124465") or ("9988102") or ("20140092546") or ("5073353") or ("8702296") or ("5746617") or ("20090097200") or ("20040150947") or ("20100321594") or ("20170246055") or ("10306789") or ("20180281873") or ("20150207209") or ("9579006") or ("9370120") or ("20140369793") or				

		("20170373409") or ("7158372") or ("6742941") or ("20180134388") or ("20070223239") or ("20050044558") or ("20190052066") or ("20080080149") or ("6270066") or ("20170123455") or ("20190061904") or ("6304442") or ("6943287") or ("9798357") or ("20160085265") or ("20170316375") or ("20150348593") or ("20070223235") or ("20150093089") or ("20140104807") or ("6326562") or ("8655257") or ("20140265376") or ("7620436") or ("20080212270") or ("5462295") or ("20100320803") or ("10349547") or ("20060198089") or ("7022916") or ("8262276") or ("10496137") or ("9590290") or ("20170290471") or ("20170318795") or ("10291001") or ("20190358554") or ("20140077670") or ("10042399") or ("20120105737") or ("20070223234") or ("20150375808") or ("10159610") or ("20020031347") or ("20190269471") or ("9674979") or ("20170074388") or ("20070070594")).PN. or (("20070009345") or ("6299479") or ("4746134") or ("8727048") or ("10329007") or ("5168428") or ("9979102") or ("20190083331") or ("9235237") or ("6695087") or ("7461957") or ("20170334288") or ("9725928") or ("6956746") or ("5310239") or ("20010001559") or ("6008846") or ("20150369994") or ("20160255744") or ("9358359") or ("20080144271") or ("20120026678") or ("7692918") or ("20020075581") or ("6151284") or ("6595311") or ("9280177") or ("7652879") or ("9317081") or ("8714763") or ("10133303") or ("5936647") or ("20150072606") or ("20180039136") or ("5707244") or ("20170313421") or ("20140308828") or ("20110273860") or ("9908406") or ("2439412") or ("10482414") or ("8681505") or ("8988846") or ("20180155029") or ("9957048") or ("8052201") or ("9600035") or ("9946315") or ("20160202739") or ("9287724") or ("6637845") or ("20120281257") or ("20190309957") or ("20180155027") or ("20100326163") or ("20170313422") or ("20180246548") or ("7206199") or ("20160046309") or ("9733423") or ("20030231476") or ("20190145508") or ("20030222550") or ("4456414") or ("5680293") or ("9742942") or ("20150300169") or ("20180051561") or ("6651768") or ("20170290472") or ("4915636") or ("6278607") or ("20180147936") or ("10215270") or ("9566990") or ("20180125329") or ("20100201892") or ("20170146431") or ("6384993") or				

		("20090263222") or ("2879491") or ("20030129020") or ("9343797") or ("5796593") or ("20040257777") or ("20060238974") or ("20120014077") or ("20190290271") or ("20150070828") or ("20050286242") or ("20060237502") or ("7545632") or ("10401902") or ("20080044630") or ("5441289") or ("20070082536") or ("20130070409") or ("9499216") or ("20170316701") or ("20170139100") or ("6033257") or ("8319901") or ("20070217892") or ("6519101") or ("6111746") or ("9206687") or ("20180155031") or ("20180155028") or ("20170316376") or ("20180155030") or ("8279596") or ("6356075") or ("20110058446") or ("20100097785") or ("20190105986") or ("20050254772") or ("10183576") or ("20110249196") or ("20160355077") or ("5552959") or ("7854460") or ("7901101") or ("20100283908") or ("20070223237") or ("20130329450") or ("7281254") or ("10248171") or ("6065676") or ("20090145696") or ("20090000835") or ("8821099") or ("20120293391") or ("10299656")).PN. or (("8634192") or ("20190152548") or ("8359897") or ("6421911") or ("7883099") or ("8947319") or ("9141153") or ("6687134") or ("20040263790") or ("8899905") or ("20100033925") or ("20060041783") or ("9981745") or ("8066321") or ("20180340646") or ("20160044815") or ("20190323651") or ("20170300095") or ("10453022") or ("10493837") or ("20100141846") or ("20200047890") or ("20180155032") or ("20180055698") or ("20120050938") or ("10281765") or ("20120293390") or ("20170316699") or ("20090273901") or ("10337936") or ("20100066916") or ("5497292") or ("7324349") or ("20100002393") or ("7214087") or ("20030201111") or ("20160355111") or ("4561085") or ("20190173067") or ("20170290473") or ("10012785") or ("9643629") or ("20110132855") or ("20190122172") or ("20100283904") or ("7639499") or ("20180242471") or ("2935554") or ("20190090374") or ("10019040") or ("20120212914") or ("9969495") or ("10460281") or ("6604600") or ("8297770") or ("20200018106") or ("20080130219") or ("7887074") or ("20040025449") or ("20110311332") or ("20130062855") or ("9999326") or ("20090101671") or ("20030209355") or ("20070084648") or ("20070221797") or ("7271999") or ("20170150088") or				

		("20120281958") or ("4235299") or ("9499034") or ("20180119453") or ("2483801") or ("20140347831") or ("8457699") or ("20080007670") or ("20170255235") or ("8616748") or ("8540475") or ("7771218") or ("5738064") or ("5499136") or ("20030037943") or ("20120218725") or ("8761847") or ("20180349840") or ("20100283907") or ("10586201") or ("8118446") or ("7706139") or ("20120293718") or ("10412851") or ("20090036021") or ("20050190546") or ("6362978") or ("20170156306") or ("20080122739") or ("4233643") or ("9450358") or ("6158699") or ("7440277") or ("20140353935") or ("20180104116") or ("20130001247") or ("20150230353") or ("10588238") or ("20150259011") or ("9776481") or ("20100166211") or ("6402565") or ("6309251") or ("8267210") or ("20140226271") or ("20070258227") or ("20200038256") or ("20190344190") or ("20130340989") or ("8634178") or ("10352496") or ("20200000566") or ("20090301908") or ("6920721") or ("6621000") or ("10082691") or ("4919566") or ("6339536") or ("20070293085") or ("8480288") or ("20100140203") or ("20160355143") or ("10202192")).PN. or (("7110264") or ("6272009") or ("20190322505") or ("20060238988") or ("9585284") or ("20160372877") or ("7298624") or ("8181774") or ("9658654") or ("2873998") or ("8919795") or ("6483107") or ("20170074453") or ("9737066") or ("5111088") or ("7474523") or ("9578868") or ("7830650") or ("8760886") or ("20190069424") or ("9595798") or ("9928749") or ("20170055357") or ("6858794") or ("7974092") or ("6056210") or ("8934226") or ("7465189") or ("8261950") or ("9588550") or ("20030171033") or ("20120262631") or ("5268882") or ("7967335") or ("20110187941") or ("20180164498") or ("20170239104") or ("10106010") or ("6104023") or ("20140364691") or ("6256208") or ("6383031") or ("20180126546") or ("20140375181") or ("8837128") or ("20180065440") or ("20180070469") or ("8919886") or ("9139237") or ("10470943") or ("20140232942") or ("20040190275") or ("8045339") or ("9823690") or ("20030161108") or ("20080259716") or ("20100002366") or ("20080111327") or ("20070189110") or ("20060087126") or ("10051758") or ("20130346771") or ("20080281157") or ("20080062642") or ("5295555") or ("20170120963") or ("8264856") or ("20090009943") or ("20030171016") or				

		("20040150948") or ("9433119") or ("9917033") or ("9302692") or ("6752663") or ("7954968") or ("20140346762") or ("20170007384") or ("10146272") or ("20180309239") or ("20160136691") or ("2980753") or ("5642043") or ("6388873") or ("6361096") or ("8233762") or ("6760229") or ("20190093716") or ("20120193965") or ("20120307448") or ("20100165594") or ("20090316371") or ("6929133") or ("20130048631") or ("20100328905") or ("8287173") or ("20040257491") or ("20150210319") or ("7100898") or ("9585262") or ("20190131741") or ("8503851") or ("20190003982") or ("8746510") or ("20130061984") or ("20140306586") or ("20150060158") or ("6906918") or ("20190161190") or ("5030865") or ("20160218416") or ("20020062566") or ("7580260") or ("20150059124") or ("6777619") or ("6816376") or ("20020199048") or ("20160355142") or ("20130346778") or ("7280352") or ("20140265370") or ("20070159915") or ("9483072") or ("8702263") or ("20080068795") or ("20180228557") or ("6966653")).PN.				
S654	6	("20030006682" | "20070070612" | "20120114272" | "20170251560" | "5571256" | "6183053").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 12:21
S655	16	("5397176" | "5547272" | "5604662" | "5647649" | "5940274" | "D394431" | "D419148" | "D419983").PN. OR ("6183053").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 12:23
S656	178	("2789024" | "2880379" | "4473262" | "4482066" | "4509810" | "4979909" | "5165770" | "5250752").PN. OR ("5571256").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 12:23
S657	193	S655 S656	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 12:24
S658	39	S657 AND LEVEL$3	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 12:24
S659	27	S658 and chassis$2	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 12:25

S660	0	G06F1/1637,1635,1656	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 12:55
S661	12,458	G06F1/1637,1635,1656.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 12:57
S662	115	((("REDDY") near3 ("ANAND")) OR (("PRAKASH") near3 ("GURU")) OR (("JAGADISH") near3 ("HARISH")) OR (("SUNDARAM") near3 ("ARVIND"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/03/16 12:58
S663	431	(("20170255233") or ("9141329") or ("6571273") or ("5659788") or ("8200796") or ("20120098841") or ("20110252355") or ("5977995") or ("9285795") or ("9244451") or ("20070211079") or ("20170264670") or ("10305967") or ("7971151") or ("20080201644") or ("6956545") or ("20030067437") or ("20130335349") or ("9363571") or ("8375115") or ("20170060353") or ("20070150924") or ("20180332356") or ("9024878") or ("20110072506") or ("20060055664") or ("20130076594") or ("20090040077") or ("20080282117") or ("10168867") or ("9130980") or ("20100318709") or ("20050185364") or ("20130321570") or ("20110228701") or ("20130080909") or ("20030067419") or ("9516391") or ("10417013") or ("20160284121") or ("10284816") or ("20090323568") or ("9405459") or ("20060153226") or ("20130080143") or ("9743357") or ("20050105129") or ("8264711") or ("7817589") or ("20150356045") or ("6057862") or ("20080291210") or ("8270325") or ("7471623") or ("20120319927") or ("5812394") or ("20140282934") or ("20130076593") or ("8144160") or ("6018769") or ("20140379721") or ("20190373320") or ("9665525") or ("20140040769") or ("20100083122") or ("20030067418") or ("20130080899") or ("9747003") or ("6956541") or ("20100060572") or ("20140059196") or ("9678624") or ("5687315") or ("20020044132") or ("20100064228") or ("10212484") or ("20160283046") or ("20150293746") or ("6901455") or ("20030005186") or ("5821614") or ("20140040768") or ("20110193780") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 12:59

		("20100060549") or ("9218432") or ("20020194468") or ("20130080942") or ("20130080940") or ("20190121682") or ("10394703") or ("20140254075") or ("20030069891") or ("20080218531") or ("20130326399") or ("20180203682") or ("20080007568") or ("8736675") or ("10409438") or ("20130104051") or ("20130076592") or ("9213516") or ("20160174027") or ("20080090220") or ("20190057671") or ("20190043411") or ("20180107358") or ("7091933") or ("10356499") or ("20130080941") or ("20160103648") or ("9665333") or ("20160132279") or ("10417991") or ("20130104062") or ("5625829") or ("20130231782") or ("20130080943") or ("9715252") or ("20130111371") or ("20170083125") or ("20170322892") or ("20130033718") or ("6337678") or ("20030097478") or ("20140067957") or ("20170083124") or ("8990712") or ("20190306600")).PN. or (("20130080944") or ("20100138583") or ("10521216") or ("8844050") or ("8879078") or ("20060253549") or ("7054963") or ("20140040756") or ("20080211780") or ("20160110076") or ("20160124698") or ("9680885") or ("9665178") or ("20200074585") or ("20030231168") or ("10440456") or ("20200042269") or ("8255606") or ("9986374") or ("20180270606") or ("8990713") or ("20060288139") or ("20030204597") or ("20130154811") or ("20200019844") or ("10558414") or ("10372632") or ("20180308204") or ("5504905") or ("7469289") or ("20130332535") or ("20110213814") or ("20170347171") or ("8554808") or ("7222172") or ("20170344064") or ("20180225230") or ("20180293778") or ("7155513") or ("20190087359") or ("20180314250") or ("20140341533") or ("20090193345") or ("9414125") or ("20150188795") or ("20140107471") or ("9703468") or ("20020067338") or ("6819312") or ("20190090959") or ("10078399") or ("20140277922") or ("5995120") or ("10185670") or ("10528234") or ("20130076664") or ("9820008") or ("20130080934") or ("20030014618") or ("20170169537") or ("10031625") or ("20160026367") or ("5961617") or ("20180300964") or ("9318143") or ("20040049624") or ("20190318550") or ("20180178118") or ("20180193757") or ("20130070610") or ("10410115") or ("20170347172") or ("9529494") or ("10475148") or				

		("8316308") or ("20170281280") or ("20160028875") or ("20100260157") or ("20070109984") or ("9990002") or ("20190332077") or ("20130157729") or ("20160026352") or ("6202212") or ("9498231") or ("6218602") or ("20130214996") or ("10332320") or ("20130080939") or ("10118102") or ("7535861") or ("20140098103") or ("5838334") or ("20190068974") or ("10080617") or ("20130080933") or ("9158796") or ("9202319") or ("20050195575") or ("20160054988") or ("8558839") or ("20120110496") or ("9501378") or ("7227511") or ("6108014") or ("20130322846") or ("8965847") or ("5903457") or ("20140365898") or ("10509466") or ("20040186935") or ("20130201316") or ("20130080936") or ("6980947") or ("9342908") or ("20180199114") or ("20120216209") or ("20130076665") or ("9800711") or ("20050044529") or ("20160022374") or ("20190188141") or ("7680546") or ("20150163106") or ("10559277") or ("10338904") or ("20150351529") or ("20100223619") or ("7146446") or ("8780125")).PN. or (("9235845") or ("7505889") or ("8872727") or ("8654749") or ("20170235477") or ("9003311") or ("20130080969") or ("20160077842") or ("20060107229") or ("20130250038") or ("20160054757") or ("20060228654") or ("20180317826") or ("20100085417") or ("20160034116") or ("10402076") or ("9122441") or ("7054965") or ("20150154181") or ("5446898") or ("20160195899") or ("20160196007") or ("8826293") or ("9268518") or ("20080307315") or ("20090070777") or ("10223130") or ("20140285959") or ("20180167281") or ("20160227923") or ("9571358") or ("8441516") or ("10105149") or ("20070183436") or ("9007424") or ("20090066650") or ("20050010810") or ("8766993") or ("20090172185") or ("20070132779") or ("20160148396") or ("20160117139") or ("8214842") or ("20110050542") or ("9282814") or ("20130076780") or ("20170322820") or ("9740365") or ("20140065847") or ("20130290233") or ("20180376333") or ("20100172081") or ("9710148") or ("20170318352") or ("20170235928") or ("8185219") or ("20200026397") or ("20130312085") or ("20080320500") or ("20130080935") or ("20180307899") or ("9769534") or ("9686145") or ("20100188410") or ("20140066128") or ("10350491") or ("7599889") or				

		("20190095703") or ("20130080938") or ("20130138941") or ("20120182304") or ("20070074284") or ("20130036366") or ("20140240085") or ("20200004710") or ("8674944") or ("20110075337") or ("20100268792") or ("9692824") or ("9069518") or ("7120510") or ("10588016") or ("8144150") or ("6832320") or ("8972592") or ("RE42064") or ("9804862") or ("6873333") or ("10191618") or ("9750341") or ("20160041704") or ("7269543") or ("9130651") or ("20190066257") or ("20190325763") or ("8953308") or ("20150043141") or ("9038165") or ("10496697") or ("20190056837") or ("9848247") or ("20110037772") or ("8407367") or ("9131088") or ("20190290297") or ("10108850") or ("20190325638") or ("9576409") or ("20050152288") or ("8416568") or ("8200898") or ("20080307238") or ("20150199858") or ("20170187835") or ("20160165000") or ("20080039009") or ("7751860") or ("20120034954") or ("20140285502") or ("20130332641") or ("20140359188") or ("20060129721") or ("20130219162") or ("20160345045") or ("8798675") or ("20110271195") or ("8194087") or ("20160117318") or ("20200065045")).PN. or (("20170222359") or ("20040054689") or ("6188939") or ("20030191623") or ("20120299485") or ("20190205275") or ("20130080759") or ("20080079740") or ("8749959") or ("9761068") or ("20160379592") or ("8910061") or ("20100302141") or ("9064356") or ("20150346769") or ("6853404") or ("20180104591") or ("9006996") or ("20180304151") or ("8935373") or ("20050146529") or ("20080247128") or ("10525341") or ("20190171342") or ("20170076269") or ("20180314531") or ("20190057061") or ("20180108190") or ("9276742") or ("10372161") or ("20090249099") or ("20180184175") or ("20180301095") or ("20010035880") or ("8811008") or ("20130315038") or ("20130093645") or ("20020171652") or ("20150346775") or ("8812635") or ("20110022747") or ("20160117176") or ("20190058242") or ("20140063717")).PN.				
S664	1,224	(("20170255233") or ("20060153226") or ("7471623") or ("20140059196") or ("10394703") or ("9141329") or ("20050195575") or ("10402207") or ("20170364375") or ("7146446") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 13:00

		("20160022374") or ("20130335907") or ("20120151098") or ("20140040769") or ("9747003") or ("20140107471") or ("10105149") or ("20190090959") or ("20140040768") or ("20190290297") or ("20150257297") or ("20190335600") or ("9498231") or ("8976513") or ("20130271905") or ("20070258205") or ("20110102991") or ("10080617") or ("20170281280") or ("10285293") or ("20020024452") or ("9665178") or ("20040136167") or ("20190340313") or ("9509674") or ("20140040756") or ("7733635") or ("6973517") or ("20080244149") or ("20180314531") or ("20090157939") or ("7242574") or ("20160077841") or ("20180074830") or ("20110304972") or ("10261803") or ("20190258251") or ("20050246469") or ("20140355206") or ("8897760") or ("7376779") or ("8868036") or ("9836309") or ("20150358790") or ("20190056982") or ("10394643") or ("10368241") or ("6571273") or ("20130308266") or ("6389499") or ("7676624") or ("20120106067") or ("5977995") or ("20160021779") or ("8451598") or ("20130286577") or ("20150095158") or ("20100174844") or ("20130024596") or ("20160044831") or ("8311513") or ("20170068548") or ("10467015") or ("7818487") or ("20150026373") or ("8200796") or ("20110208893") or ("9326418") or ("20050286213") or ("8756359") or ("9703750") or ("8626977") or ("20130198430") or ("8411434") or ("20120098841") or ("8977797") or ("20110304968") or ("20130097352") or ("20190026126") or ("20200061811") or ("8234436") or ("9529768") or ("9132562") or ("20140195713") or ("20120173732") or ("20090094594") or ("10459742") or ("10586389") or ("8041873") or ("10135874") or ("9513615") or ("20060203460") or ("20180203682") or ("5526493") or ("10587655") or ("20110304974") or ("20080146265") or ("20130264919") or ("20180293081") or ("20170083457") or ("20160364243") or ("20160026163") or ("20050071534") or ("5659788") or ("20170235928") or ("9612846") or ("8493727") or ("9734093") or ("7099981") or ("20110228701") or ("8571598") or ("9529769") or ("6542997") or ("10013260") or ("20060055664") or ("20180367177") or ("10417013") or ("6295567") or ("7817589") or ("10521216")).PN. or (("20090040077") or ("20090323568") or ("20030011976") or ("20180246837") or				

		("8739035") or ("20140304004") or ("5748442") or ("20170090896") or ("9684527") or ("20160179744") or ("20100318709") or ("10348346") or ("20080092043") or ("20040177200") or ("10338934") or ("20180241632") or ("20160248852") or ("20190043201") or ("10031736") or ("10579575") or ("20050010810") or ("20050185364") or ("20150185772") or ("6873333") or ("7023845") or ("7599889") or ("20130332535") or ("20040162893") or ("20160019053") or ("6970348") or ("8270325") or ("6324062") or ("6832320") or ("9820008") or ("20180348820") or ("20160118121") or ("7586908") or ("10101769") or ("20140304695") or ("9772652") or ("20160195856") or ("8601053") or ("20130111095") or ("9148465") or ("9891984") or ("20100083122") or ("10147039") or ("20140304718") or ("8675671") or ("6404626") or ("20200026328") or ("8375115") or ("10425287") or ("6681282") or ("5812394") or ("8184624") or ("9516391") or ("9721660") or ("20180314304") or ("20150254199") or ("9961788") or ("10423427") or ("20080013270") or ("20110090628") or ("20080320500") or ("20190043351") or ("20200042063") or ("9804901") or ("5991838") or ("20180241631") or ("20140307373") or ("6853546") or ("5816673") or ("10331614") or ("20190339983") or ("9507579") or ("20120099264") or ("10559202") or ("6718415") or ("10429887") or ("20130279107") or ("20120249723") or ("20070282208") or ("20080282117") or ("20040128144") or ("7873693") or ("10317955") or ("20190302761") or ("20040057202") or ("10536349") or ("20130321570") or ("20190005722") or ("20170052830") or ("20150026515") or ("8405969") or ("5850209") or ("8339775") or ("20120281385") or ("8897001") or ("9141139") or ("20170374768") or ("20040057203") or ("7817412") or ("6976058") or ("9363571") or ("20070239429") or ("10305967") or ("20050174729") or ("20130232298") or ("20150356045") or ("20100241799") or ("20170140739") or ("20190042867") or ("20150131220") or ("20180225230") or ("20170264670") or ("6856508") or ("20130076594") or ("5313596") or ("10185670") or ("20130335349") or ("20100246155") or ("6298045") or ("20150382498") or ("20190087359") or ("20140023205") or ("20150289405") or ("9936603") or ("20030147381") or ("20190042900")).PN. or				

		(("9779591") or ("20130333941") or ("9829932") or ("8995115") or ("6633848") or ("9125293") or ("20200042074") or ("7328297") or ("7685281") or ("6445682") or ("20100157852") or ("20190045207") or ("8305773") or ("20140159994") or ("10115375") or ("20130080909") or ("10095559") or ("20010055308") or ("20190044703") or ("9037451") or ("20010050918") or ("9665525") or ("8995137") or ("9405459") or ("6289025") or ("20020001301") or ("6266341") or ("5579528") or ("6385194") or ("7979552") or ("20190042870") or ("20130070610") or ("8489269") or ("9173332") or ("7051097") or ("6396849") or ("10010008") or ("8446729") or ("6266340") or ("20190265703") or ("6400711") or ("6529502") or ("20100138583") or ("20190034235") or ("20110299700") or ("20060007644") or ("9271430") or ("6671699") or ("6356554") or ("20020194468") or ("7379455") or ("20130080899") or ("20130322846") or ("6366578") or ("20170256143") or ("20140379721") or ("6560222") or ("20140282934") or ("20090059818") or ("9235845") or ("20130003280") or ("20110301906") or ("20110292616") or ("20130145482") or ("20140244886") or ("20160239460") or ("7535861") or ("20030219029") or ("20110292609") or ("20140160683") or ("20160259380") or ("20140016274") or ("20180242054") or ("20110292769") or ("20020067338") or ("20020001302") or ("9823937") or ("8255606") or ("20160192037") or ("20110299261") or ("20110038365") or ("7256991") or ("20160283046") or ("20110299698") or ("9318143") or ("20110299699") or ("20140341533") or ("20100186217") or ("20100205622") or ("20160103980") or ("20130154298") or ("20130080143") or ("9692824") or ("20050285864") or ("20040001479") or ("10409438") or ("7054963") or ("10417007") or ("20160092042") or ("20110299251") or ("20150351529") or ("20100260157") or ("10061361") or ("6654903") or ("20070109984") or ("20130259260") or ("8654749") or ("20120243198") or ("9218432") or ("20070002011") or ("20170093643") or ("6154465") or ("20150156928") or ("20160174027") or ("20130204466") or ("20140285959") or ("20080117588") or ("8731862") or ("20140146482") or ("20130198737") or ("20140240914") or ("20140219132") or ("6498791") or				

		("20040150959") or ("5590021") or ("7082028") or ("20080211780") or ("8593821") or ("20140036460") or ("7181401")).PN. or (("20120250880") or ("8947860") or ("20120244827") or ("8035976") or ("20080201644") or ("8493739") or ("20130104062") or ("20180332356") or ("20200019844") or ("9237683") or ("20030231168") or ("6760339") or ("6006243") or ("20130076593") or ("8625292") or ("9261922") or ("20130080942") or ("7227511") or ("8411093") or ("8498126") or ("20110075337") or ("7664110") or ("8599568") or ("20140244881") or ("20140365898") or ("10020995") or ("8087165") or ("9980017") or ("8988884") or ("7225240") or ("6601186") or ("8982561") or ("8724335") or ("20190213091") or ("7561571") or ("20160227923") or ("8625293") or ("20170192928") or ("9282814") or ("6256732") or ("8369317") or ("9119288") or ("20110072506") or ("9013881") or ("20190034716") or ("8284559") or ("20040001501") or ("20130104051") or ("10235323") or ("20190344663") or ("20160132279") or ("8570757") or ("20110200034") or ("20120216209") or ("8953308") or ("20180314250") or ("7706359") or ("20140239718") or ("6742134") or ("20160006619") or ("8477509") or ("20150277856") or ("7646755") or ("8749988") or ("20110305350") or ("9024878") or ("20050285863") or ("20130111371") or ("9130980") or ("9507566") or ("20160092076") or ("9213516") or ("20130080940") or ("20100223619") or ("5926364") or ("9256565") or ("20140240909") or ("20150006035") or ("8844050") or ("20160110076") or ("20020039286") or ("10410115") or ("9285795") or ("5995120") or ("20080005222") or ("20110252355") or ("6271604") or ("20130191765") or ("20190222484") or ("20140350907") or ("20190205745") or ("9116786") or ("8830687") or ("20080291210") or ("6067226") or ("8826293") or ("7433987") or ("20050278468") or ("20140049101") or ("8749959") or ("6057862") or ("20180270606") or ("10310568") or ("20190294578") or ("7465170") or ("6202212") or ("20130107872") or ("20180293778") or ("20160103648") or ("20190272176") or ("9665333") or ("20170118851") or ("6763226") or ("8214842") or ("10558414") or ("20190033948") or ("6049973") or ("9872413") or ("20180067523") or ("20190121682") or ("20100188834") or				

		("9750341") or ("20160114745") or ("8949823") or ("20190043411") or ("9244451") or ("9986374") or ("20150186094") or ("9740365") or ("9749189") or ("20150084742") or ("6930890") or ("9134986") or ("10212484")).PN. or (("20160211632") or ("20110091051") or ("20140281224") or ("20100064228") or ("7869424") or ("20190171606") or ("20040186935") or ("20100202623") or ("5446898") or ("20130114234") or ("9715252") or ("20150293746") or ("6108014") or ("8990712") or ("9268730") or ("6411522") or ("20190095374") or ("20130076592") or ("8446417") or ("20060117124") or ("20130080941") or ("9456531") or ("20100060572") or ("8868790") or ("9008906") or ("20070150719") or ("7054965") or ("20140143839") or ("8144160") or ("20080049949") or ("5905900") or ("10168862") or ("8375575") or ("7733659") or ("20130218412") or ("9141278") or ("20160209887") or ("8301749") or ("5577205") or ("10354016") or ("10338653") or ("9417834") or ("20160148396") or ("9153125") or ("20050182882") or ("9147342") or ("6366454") or ("20130080943") or ("20030043182") or ("20050285865") or ("20130231782") or ("7363415") or ("20100060549") or ("20130204484") or ("5504905") or ("5838334") or ("20130198802") or ("7356774") or ("20070283070") or ("20130187957") or ("9785600") or ("20120243170") or ("20090259327") or ("9678544") or ("7860097") or ("20040034498") or ("20020091966") or ("9335786") or ("8990713") or ("20190141851") or ("10417991") or ("9285952") or ("20050071626") or ("20160314002") or ("9043073") or ("5673170") or ("8145785") or ("20190057671") or ("5865518") or ("8713295") or ("8553907") or ("20070211079") or ("20130117766") or ("9703468") or ("20130117426") or ("5961617") or ("7624259") or ("5812930") or ("8941668") or ("10127032") or ("8443066") or ("20160077842") or ("20040001579") or ("20140247197") or ("20180032464") or ("20140013271") or ("20160350254") or ("20130326399") or ("20130080944") or ("5821614") or ("20070074174") or ("20080307238") or ("9411525") or ("20180367408") or ("20130203400") or ("8743549") or ("7971151") or ("20170131991") or ("6643798") or ("9779557") or ("20130200991") or ("20070071257") or ("5903457") or ("20170031644") or ("20160124698") or ("20170228228") or ("20170205849") or ("6636929") or				

		("20170053460") or ("20130205412") or ("9344237") or ("20190361491") or ("7676803") or ("6094720") or ("20150048641") or ("8558839") or ("20130343589") or ("7860961") or ("10223130") or ("20140115137") or ("20180247467") or ("20120200518")).PN. or (("20200042269") or ("20130205026") or ("9829930") or ("20060067037") or ("20130163195") or ("20180307271") or ("20070142022") or ("9563439") or ("20070169081") or ("20130154811") or ("20200042277") or ("5481709") or ("20190188141") or ("20180341497") or ("8710955") or ("20100008488") or ("20130016032") or ("20050204083") or ("7006614") or ("7953903") or ("20030005186") or ("20120146763") or ("20180089870") or ("20160234095") or ("10198390") or ("20060041783") or ("9927902") or ("20110298342") or ("20190317555") or ("9927835") or ("20170091683") or ("8766993") or ("10581688") or ("8443179") or ("20150188961") or ("9414125") or ("20180107358") or ("20080007568") or ("6218602") or ("20190386887") or ("20080065503") or ("10254793") or ("20100010653") or ("20080130219") or ("20070255857") or ("20190068974") or ("20080218531") or ("8127125") or ("20180150302") or ("20190012088") or ("6847523") or ("6640239") or ("20110090633") or ("20140098103") or ("5768097") or ("20190041824") or ("9563229") or ("20050265004") or ("6901455") or ("10050901") or ("8644481") or ("20040034497") or ("7216221") or ("20130134730") or ("5570270") or ("10289154") or ("20090172185") or ("8245027") or ("9342908") or ("20140327630") or ("20090244832") or ("20170250525") or ("20130141854") or ("20080126627") or ("7890677") or ("6098171") or ("6343074") or ("20090244012") or ("20160196745") or ("20030067437") or ("6956545") or ("20170262395") or ("7035095") or ("20160185222") or ("7761802") or ("8479146") or ("20110193780") or ("20110080519") or ("8842156") or ("20140229644") or ("10319128") or ("9529494") or ("9088572") or ("8166287") or ("10572151") or ("20130227648") or ("20090327871") or ("9678624") or ("20190035340") or ("20170075699") or ("9338170") or ("20140254075") or ("8218538") or ("7352565") or ("20020149708") or ("20100128431") or ("8984202") or ("7271999") or ("10268628") or ("8484398") or ("20150304233") or ("5298919") or ("5761033") or ("8407367") or				

		("20190205115") or ("20070183436") or ("6583989") or ("20030016491") or ("20140277922") or ("20060164814") or ("7529097") or ("20150207887") or ("6853404") or ("20170187695") or ("6359779") or ("20170277545") or ("20050047079") or ("20130204943") or ("20060107229") or ("7269543")).PN. or (("9979627") or ("5495611") or ("6452794") or ("20050044529") or ("7280166") or ("20170325361") or ("7363416") or ("8624844") or ("20110296404") or ("20130076664") or ("20090178986") or ("20180203437") or ("8497908") or ("20180199114") or ("20130080934") or ("20050002157") or ("6021493") or ("20060146057") or ("9824137") or ("20060228654") or ("20170142061") or ("20040015597") or ("8732328") or ("20130151646") or ("20130117658") or ("20190243657") or ("20160070527") or ("10057221") or ("6456486") or ("9652253") or ("10496697") or ("8917513") or ("10530743") or ("20070025095") or ("20080082219") or ("10027534") or ("10310575") or ("20200074585") or ("20120110588") or ("6208658") or ("20160098034") or ("20180117446") or ("7908493") or ("20160006620") or ("10146550") or ("7734858") or ("20130204493") or ("10284816") or ("9968009") or ("20180059752") or ("8723891") or ("20130080933") or ("20190303759") or ("9122441") or ("20190095703") or ("20180307899") or ("20040064226") or ("20130111478") or ("8743872") or ("20180308204") or ("6011546") or ("8289688") or ("10046228") or ("20180314441") or ("20180117447") or ("6282642") or ("7911785") or ("20190325638") or ("20070230101") or ("20160054988") or ("20190116690") or ("7099152") or ("20130265328") or ("20130246673") or ("8872727") or ("20080218655") or ("8736675") or ("20190317568") or ("20160284121") or ("10108850") or ("20190361917") or ("20150102101") or ("9769534") or ("20190358515") or ("7990994") or ("8984191") or ("7453707") or ("9081613") or ("9202319") or ("20130080939") or ("20140181539") or ("20030097661") or ("20040015551") or ("10022613") or ("20190340092") or ("7843906") or ("20140090051") or ("20110133620") or ("20050286235") or ("20030063059") or ("9081653") or ("20130214996") or ("9542085") or ("20120020016") or ("20180326291") or ("9173100") or ("10338904") or ("20050055690") or				

		("20180322387") or ("20130227485") or ("9736546") or ("20150188763") or ("9086918") or ("9003311") or ("6263440") or ("7193845") or ("10195513") or ("20160073521") or ("20190042378") or ("20130227445") or ("20030206398") or ("20130290233") or ("20090086441") or ("20180357108") or ("10261709") or ("20030067419") or ("20170161471") or ("20180264347") or ("9545029") or ("9589116")).PN. or (("20130159582") or ("20020111194") or ("9875773") or ("20070103857") or ("9680712") or ("20040107420") or ("20170156233") or ("20130076665") or ("20060129721") or ("20140146459") or ("20130080969") or ("10475148") or ("20140280809") or ("7843907") or ("20020174264") or ("20130080936") or ("8924033") or ("7076325") or ("5023790") or ("7656386") or ("8274518") or ("20190340136") or ("6694450") or ("7757033") or ("20190179329") or ("9325577") or ("20190317566") or ("5854736") or ("20100172077") or ("5287519") or ("20050270751") or ("20190325763") or ("20110199226") or ("9055022") or ("9268518") or ("20030014618") or ("7019967") or ("20090006685") or ("20160179553") or ("8854822") or ("10177986") or ("6272007") or ("10338639") or ("20070208892") or ("20020199048") or ("20120134523") or ("7325033") or ("20110022747") or ("8432689") or ("20040049624") or ("20160054757") or ("7103434") or ("20130080935") or ("20080270633") or ("10532268") or ("20180359876") or ("8612548") or ("20040255269") or ("20010048585") or ("20160196007") or ("7460375") or ("20020161895") or ("20150304423") or ("20190066257") or ("8769159") or ("6279049") or ("10521273") or ("20030112591") or ("20030011579") or ("9455883") or ("20020154474") or ("5606594") or ("20060149856") or ("20080288685") or ("20070109739") or ("20040246677") or ("9591775") or ("20150356034") or ("8694694") or ("20160117318") or ("20050071695") or ("20050117292") or ("5625829") or ("20050080502") or ("6928464") or ("20130117621") or ("20060158446") or ("9872415") or ("20020126443") or ("9981389") or ("20080040463") or ("6906914") or ("20190235592") or ("7039046") or ("20180322386") or ("20160117139") or ("20140294215") or ("20140347831") or				

		("20150163169") or ("20170078472") or ("8919848") or ("6906918") or ("20100166211") or ("20130222244") or ("8019883") or ("8416567") or ("5530892") or ("8554808") or ("5964847") or ("20060095595") or ("7663633") or ("8145824") or ("20060252466") or ("7624375") or ("20120110154") or ("20080126542") or ("6385739") or ("20190121889") or ("20120169593") or ("20120218725") or ("7155624") or ("20130058038") or ("7434220") or ("6580602") or ("6539486") or ("8031291") or ("9781484") or ("20120110086") or ("20190387285") or ("7408784")).PN. or (("20120212914") or ("10212485") or ("20130282238") or ("20070165373") or ("6900984") or ("9645954") or ("10146271") or ("8929024") or ("20190392148") or ("6128185") or ("8848727") or ("10558453") or ("7626815") or ("20180308212") or ("7633955") or ("5878276") or ("5465357") or ("7657665") or ("20130315038") or ("20180184175") or ("20200045111") or ("20170068989") or ("20110282508") or ("9092798") or ("20150052452") or ("20140029198") or ("20190130734") or ("9935631") or ("20170110157") or ("10467388") or ("20180103300") or ("20110213814") or ("7924570") or ("7034814") or ("9178835") or ("20110161877") or ("7898817") or ("10154605") or ("20150227177") or ("20130103880") or ("20140298091") or ("20150116861") or ("8966020") or ("7647431") or ("20070074284") or ("8270652") or ("7692928") or ("20160165000") or ("20040034496") or ("20170083124") or ("8458390") or ("20180314249") or ("8917512") or ("6532152") or ("20130329450") or ("10263839") or ("20170169537") or ("20160196147") or ("20120110155") or ("20160008988") or ("8984109") or ("20020012232") or ("20170083125") or ("20160098920") or ("10497084") or ("7236370") or ("20090231232") or ("20140077670") or ("20120215921") or ("20130154810") or ("6354861") or ("20190057061") or ("6518965") or ("8910061") or ("6708291") or ("20190215670") or ("20130080643") or ("5786984") or ("6654235") or ("8972592") or ("20040085718") or ("6108199") or ("7936348") or ("20120275631") or ("20090040698") or ("7747999") or ("20160028875") or ("8616748") or ("8040902") or ("7606241") or ("9276742") or ("20080288618") or ("9280177") or ("20020158865") or ("8760886") or ("20200074318") or ("20180315061") or ("10289222") or ("9600295") or ("6968464") or				

		("8979159") or ("9535615") or ("20130111037") or ("20200082262") or ("20180260043") or ("20020059639") or ("6052281") or ("20060120035") or ("6980947") or ("9069518") or ("8370831") or ("20050191870") or ("20070204095") or ("8908326") or ("20190310722") or ("20130295834") or ("20020029101") or ("9253016") or ("20110102348") or ("20150271040") or ("20180308203") or ("9288050") or ("8438473") or ("6594150") or ("20180317067") or ("10031625") or ("8904380") or ("20190243660") or ("5539478") or ("20040104927") or ("20130219039") or ("20170076575")).PN. or (("20080090220") or ("20030067418") or ("7457111") or ("10171967") or ("20130076780") or ("20100313150") or ("6336828") or ("10078399") or ("20190052521") or ("10360214") or ("20030028344") or ("9916476") or ("7418525") or ("7284149") or ("20020099873") or ("20080140886") or ("6208509") or ("20130080938") or ("20020078459") or ("5771176") or ("6956541") or ("5196993") or ("8984115") or ("20140285502") or ("20170091790") or ("8316308") or ("20100128432") or ("20070027981") or ("20030172003") or ("20130201316") or ("9237685") or ("20160041704") or ("7496888") or ("20130308265") or ("20190318550") or ("8264856") or ("6275382") or ("20030131227") or ("20170318352") or ("20190310816") or ("10528234") or ("20160026352") or ("20130332641") or ("20140359188") or ("5973916") or ("20140250267")).PN.				
S665	1,286	(("10015582") or ("7112023") or ("20160378071") or ("20160378070") or ("20160378069") or ("20160058375") or ("10536768") or ("20170118551") or ("20180042554") or ("20170209095") or ("9736283") or ("20190145820") or ("20150072727") or ("20180302709") or ("10362813") or ("20160135742") or ("10133314") or ("10429020") or ("20190264877") or ("20180135819") or ("20150338887") or ("10415765") or ("20160327986") or ("20150338883") or ("20200011497") or ("20160327980") or ("10584839") or ("20160135743") or ("20170095011") or ("10194702") or ("10126783") or ("9411380") or ("20170035170") or ("20170003718") or ("20150201723") or ("10548380") or ("20160136882") or ("9521868") or ("10228721") or ("20190384354") or ("20150212396") or ("20180306966") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 13:04

		("10139859") or ("10514489") or ("9547220") or ("20060176418") or ("20140267894") or ("20180306972") or ("20190204865") or ("20180306970") or ("10353142") or ("20170150895") or ("20050024729") or ("9578903") or ("20160135695") or ("10334893") or ("9030606") or ("10466411") or ("20180306971") or ("20200033528") or ("20180306395") or ("20200026327") or ("5898503") or ("20160135696") or ("20190231001") or ("20070291475") or ("7543946") or ("7458698") or ("9317243") or ("20140152890") or ("20190090806") or ("9030832") or ("10496131") or ("20070291488") or ("20150220109") or ("9469469") or ("20130294020") or ("8481982") or ("8548541") or ("20110037002") or ("20130083558") or ("20190086951") or ("9615476") or ("7410269") or ("20180263362") or ("20160246326") or ("10271587") or ("20140217862") or ("9582034") or ("20170235332") or ("20130088828") or ("20130053098") or ("20170235933") or ("10126779") or ("9958904") or ("10331168") or ("7878403") or ("20170235333") or ("8915361") or ("20130050677") or ("20160135516") or ("20120144882") or ("20180321331") or ("20180059298") or ("20170235334") or ("10240408") or ("20130198935") or ("20160209025") or ("20190211635") or ("10156867") or ("8487256") or ("10401007") or ("8752406") or ("8611095") or ("20190383477") or ("10459135") or ("20180328124") or ("20180160509") or ("9526292") or ("20170115164") or ("20130053106") or ("10013861") or ("20160198824") or ("9927301") or ("6082185") or ("20040057490") or ("20190234603") or ("20030034394")).PN. or (("20180237214") or ("20180012468") or ("20170124830") or ("9697713") or ("10551047") or ("10005611") or ("9600989") or ("10294016") or ("20070040034") or ("20150070181") or ("20090236424") or ("9289175") or ("20060028442") or ("20030062413") or ("20160061726") or ("20180092601") or ("20030218469") or ("20180364162") or ("10260722") or ("20010033487") or ("20160209001") or ("20200034602") or ("6832725") or ("10078052") or ("9618827") or ("20190281261") or ("20160047537") or ("10247670") or ("6891879") or ("20160209728") or ("20030019934") or ("20120165682") or ("9076054") or ("7533824") or ("20130176626") or ("9310060") or ("20130131519") or				

		("20160186972") or ("20110121076") or ("20110128220") or ("20130292477") or ("8834365") or ("20140077954") or ("20030089776") or ("8929965") or ("20180228435") or ("20150119657") or ("20130062534") or ("8788002") or ("6467928") or ("20050146517") or ("20140249381") or ("20070108284") or ("20180020979") or ("7967205") or ("20150080741") or ("20190163953") or ("20180192950") or ("7348969") or ("9886059") or ("20150137978") or ("20030029917") or ("20130088130") or ("20120229882") or ("20140016217") or ("9056584") or ("10345672") or ("20150122854") or ("20170261830") or ("9955919") or ("20190099130") or ("20170068143") or ("10195299") or ("20190166913") or ("20170188911") or ("10191348") or ("9262900") or ("8526180") or ("20170188912") or ("20180206607") or ("20170090512") or ("20190063696") or ("20200025879") or ("20050205657") or ("20140361147") or ("10060788") or ("6393224") or ("4314760") or ("20160066459") or ("20180164067") or ("10371326") or ("9380723") or ("20180078209") or ("20170086551") or ("20170248514") or ("20160057879") or ("20060237522") or ("20190353312") or ("9298279") or ("20170188910") or ("4030838") or ("20180348048") or ("7825895") or ("20120211382") or ("9600037") or ("9439314") or ("20170346998") or ("20140218853") or ("10248221") or ("20170100634") or ("20160066460") or ("20110038114") or ("20130147000") or ("8654524") or ("20130226486") or ("10324024") or ("8474722") or ("20170072077") or ("20200041613") or ("20150329054") or ("20190314581") or ("9955762") or ("7073708") or ("20200034596") or ("10299554") or ("9701248") or ("20140340227") or ("10234330")).PN. or (("20140334778") or ("20130092576") or ("8942776") or ("20130188312") or ("9263604") or ("20140379054") or ("9549598") or ("8624141") or ("8342325") or ("20170115165") or ("20130043777") or ("20120118773") or ("9557386") or ("9098993") or ("10369413") or ("10281231") or ("20140027317") or ("8570737") or ("20170147087") or ("9089056") or ("20180343986") or ("8393466") or ("20190258141") or ("10261541") or ("9417407") or ("8783456") or ("20130147001") or ("8531824") or ("9107299") or ("20160097959") or ("9269842") or				

		("8899761") or ("20120243093") or ("10237461") or ("8708142") or ("9179562") or ("20120085134") or ("9874901") or ("20170083046") or ("20180091879") or ("9134585") or ("20140288394") or ("20140070081") or ("20130170013") or ("20150090748") or ("20150182165") or ("10072985") or ("20180143663") or ("9247661") or ("8973753") or ("20140217863") or ("9907698") or ("20150282713") or ("8564950") or ("7270274") or ("7572206") or ("20140233108") or ("20040259689") or ("20190243415") or ("9024250") or ("20180087767") or ("8783457") or ("20180255219") or ("9226663") or ("20020191920") or ("20130328741") or ("9128284") or ("20190196605") or ("20190246022") or ("20190223569") or ("7604570") or ("8897002") or ("20190388572") or ("20180177230") or ("20130248691") or ("20160102846") or ("20190183677") or ("20060142126") or ("20180177635") or ("10466749") or ("20190008135") or ("20100128470") or ("20060167594") or ("20090001789") or ("20170351295") or ("9709249") or ("20130077226") or ("20180307333") or ("20200034597") or ("20060142127") or ("10564738") or ("20190246772") or ("9756895") or ("9901652") or ("20150313308") or ("10037053") or ("20200025880") or ("20190179028") or ("20170291040") or ("20140266731") or ("20190137093") or ("20140285355") or ("20170023233") or ("9607787") or ("20150297766") or ("20150090904") or ("20160375165") or ("20180292858") or ("9720443") or ("7604571") or ("10466742") or ("20190089352") or ("20190134251") or ("9478108") or ("6302596") or ("20130213147") or ("10274190") or ("20190107685") or ("10481269") or ("10461744") or ("7513852") or ("20160222640") or ("20160231242") or ("9763489") or ("20120295665") or ("20130213144") or ("20100197469") or ("9242018") or ("20080119337")).PN. or (("20070032353") or ("20180091894") or ("20180227661") or ("20130213146") or ("9542016") or ("20150226619") or ("20160302509") or ("20180091878") or ("20180091901") or ("20170372114") or ("20170245377") or ("20130296714") or ("10579847") or ("20170059805") or ("20160048163") or ("20160087117") or ("8739639") or ("8221295") or ("20150096876") or ("10257608") or				

		("20090201137") or ("20110190609") or ("20190105422") or ("20120236388") or ("10413624") or ("8805302") or ("4973844") or ("20190230434") or ("20190391702") or ("10282582") or ("20120059441") or ("8307995") or ("10024740") or ("20180289969") or ("20160165109") or ("20190147213") or ("20120305804") or ("20070147048") or ("10534496") or ("9490378") or ("9857555") or ("20130213145") or ("20180311388") or ("9520252") or ("20190001863") or ("20150015780") or ("10456052") or ("8989830") or ("8102424") or ("10524044") or ("20120127696") or ("8444291") or ("9286024") or ("10228720") or ("8463343") or ("20200081492") or ("6088165") or ("20180225498") or ("9882451") or ("9612196") or ("10357078") or ("7285771") or ("6580086") or ("20190303640") or ("8547333") or ("20180096187") or ("9823434") or ("20150265215") or ("8481916") or ("9264589") or ("20150309282") or ("20120129579") or ("20090102925") or ("20110203153") or ("20050156980") or ("20090039742") or ("20150096170") or ("20160106872") or ("20140327951") or ("7607243") or ("20180295895") or ("7020508") or ("20180091897") or ("6937812") or ("20120080296") or ("20040032729") or ("20170340049") or ("20180091896") or ("20180227664") or ("9041920") or ("9289177") or ("20150250245") or ("20040150523") or ("9930444") or ("20140293169") or ("20190350184") or ("8082688") or ("20140135781") or ("20100110027") or ("20150165077") or ("10151648") or ("10401902") or ("7635199") or ("20140233015") or ("20150180842") or ("20180095239") or ("20190047327") or ("8712485") or ("10485478") or ("8694069") or ("10493906") or ("5426308") or ("5626417") or ("20160082883") or ("9253168") or ("20140119041") or ("20170304552") or ("9603569") or ("20170028216") or ("6182848") or ("20130110264") or ("20170284875") or ("9346403") or ("8888829") or ("20060082776") or ("20190324362") or ("20140118286") or ("7372571") or ("10076282")).PN. or (("20150032009") or ("20180217668") or ("9317170") or ("20180091889") or ("10299725") or ("20170146813") or ("20190303639") or ("5408546") or ("9869636") or ("9090212") or ("5008658") or ("20140239853") or ("20160274375") or ("9243787") or ("6956479") or ("10219061") or ("20150116810") or ("8376150") or				

		("20180087757") or ("20160139495") or ("9039412") or ("20180220213") or ("20170196455") or ("5434764") or ("20130106603") or ("20150142143") or ("20180091888") or ("9740020") or ("20130211481") or ("9019090") or ("8974349") or ("8610675") or ("20160007925") or ("20130108124") or ("9700328") or ("20180035187") or ("20140186792") or ("6276818") or ("20120226316") or ("20190335844") or ("20060061076") or ("9599838") or ("20080068520") or ("20160273752") or ("10444791") or ("20110219659") or ("10391814") or ("20170315377") or ("20150253244") or ("20170115757") or ("7278223") or ("20150243145") or ("20190149902") or ("8179236") or ("20160264054") or ("20190375238") or ("9734477") or ("9967653") or ("20180094974") or ("10261648") or ("20130082585") or ("10105990") or ("10043052") or ("20190243492") or ("20150241917") or ("8513590") or ("10001658") or ("20100095578") or ("20110160650") or ("20140071050") or ("8499476") or ("9151485") or ("20180043823") or ("20170212613") or ("20060166161") or ("10462272") or ("20180031416") or ("10509195") or ("9639119") or ("9527445") or ("RE40617") or ("9410857") or ("20110314702") or ("10337912") or ("10080499") or ("20120326982") or ("20190091511") or ("8922867") or ("10429214") or ("20100083554") or ("9838775") or ("20190086685") or ("20100300992") or ("10587950") or ("20120097622") or ("20120307590") or ("8099897") or ("20080096156") or ("20160299607") or ("20140283358") or ("9085419") or ("20180295222") or ("10281737") or ("20100030043") or ("9430925") or ("20180293420") or ("20140024913") or ("20180303430") or ("20180164538") or ("20170079686") or ("20140084165") or ("20130192961") or ("20170078780") or ("20190362120") or ("20140148858") or ("20100217102") or ("10384598") or ("9610372") or ("20190041045") or ("20180218859") or ("20190154242") or ("20070260421") or ("20160071386") or ("7829862") or ("9046414") or ("9218730") or ("20190227339") or ("20180217669") or ("9039653")).PN. or (("9086836") or ("20190041026") or ("10117476") or ("20170060149") or ("8215050") or ("20130267803") or ("20190373144") or				

		("20130329183") or ("20170258662") or ("20040083907") or ("4823051") or ("20190310609") or ("9602911") or ("20190174857") or ("20080316731") or ("9857892") or ("20190290023") or ("20110203904") or ("9583256") or ("20200064588") or ("20160335869") or ("20150364938") or ("9795177") or ("8857078") or ("7481557") or ("20100194890") or ("20120204655") or ("8339526") or ("20160349175") or ("8730553") or ("10250783") or ("20200064650") or ("20020024713") or ("10133087") or ("20080130277") or ("10047941") or ("9779604") or ("20160254837") or ("8672978") or ("20130106684") or ("20190075225") or ("6614579") or ("20180275420") or ("20190266381") or ("10495898") or ("20180296161") or ("20150280767") or ("20180296166") or ("10330279") or ("7855755") or ("20180059520") or ("20120167443") or ("9086835") or ("8613616") or ("20190000396") or ("10302088") or ("9787345") or ("9872530") or ("20190210702") or ("6004046") or ("9520638") or ("8757360") or ("20130197680") or ("20160044148") or ("8700111") or ("20190286189") or ("20190366157") or ("20070074583") or ("9471169") or ("9116655") or ("20050057016") or ("8584551") or ("20160070393") or ("20160358441") or ("20180164852") or ("9011292") or ("9474955") or ("20170078785") or ("20190209087") or ("9875631") or ("20170223238") or ("20150329050") or ("20180115131") or ("9796331") or ("8886269") or ("20190254602") or ("9687576") or ("20140002113") or ("9548785") or ("4873469") or ("20160136313") or ("20190025540") or ("9069166") or ("20100238654") or ("20160375830") or ("9810591") or ("20200078519") or ("20090073847") or ("20160095519") or ("20190302083") or ("20070034082") or ("20160378259") or ("10153537") or ("20130099124") or ("20140024419") or ("20080154147") or ("6983533") or ("9543636") or ("20130083477") or ("10326247") or ("7415891") or ("20190312396") or ("7888657") or ("10172529") or ("20140371601") or ("7274094") or ("9497697") or ("20140180039") or ("20170078781") or ("20170235922") or ("20180013934") or ("9913582") or ("9314665") or ("20130188080") or ("7703966") or ("9460600") or ("5282118") or ("8963841") or ("10416537") or ("20130116612")).PN. or (("20180144113") or				

		("8558179") or ("20180260602") or ("20140171762") or ("4967312") or ("9687669") or ("20150157222") or ("8443541") or ("20180361076") or ("10456623") or ("20130278631") or ("20100037489") or ("20170232899") or ("20170059900") or ("8976085") or ("10108299") or ("8706177") or ("20190282167") or ("20090108205") or ("9716937") or ("9289135") or ("20170207042") or ("20180043822") or ("20150227178") or ("9222653") or ("20080130268") or ("20140266939") or ("7520629") or ("20090015736") or ("9568370") or ("8096473") or ("20180094632") or ("5916165") or ("20040083908") or ("7706046") or ("9699546") or ("20140180456") or ("20150022094") or ("8015732") or ("10281953") or ("20150300610") or ("4798440") or ("20180167497") or ("20130077221") or ("20160113088") or ("9736902") or ("20140218944") or ("20160325139") or ("20170324892") or ("10251601") or ("9317076") or ("20140218962") or ("8814754") or ("10222835") or ("20170340277") or ("9616289") or ("9301696") or ("10289163") or ("20190311172") or ("9375608") or ("20170085283") or ("20190026523") or ("20190092240") or ("20180035481") or ("5912456") or ("20180011390") or ("9259615") or ("20140180455") or ("20170235341") or ("9917935") or ("7537647") or ("20150065046") or ("8934952") or ("9682281") or ("20140268733") or ("20180058919") or ("9253848") or ("20190246018") or ("20190090603") or ("20190082974") or ("20160348681") or ("20140244009") or ("20150011914") or ("9637055") or ("20180056871") or ("9782125") or ("20130161172") or ("8517870") or ("5126510") or ("20190034020") or ("20200041962") or ("10144353") or ("20150170489") or ("20200025597") or ("10187918") or ("20190266376") or ("9314167") or ("10582032") or ("20190094565") or ("20050007645") or ("9440586") or ("10527491") or ("9807312") or ("20050270620") or ("8308679") or ("10437974") or ("6338517") or ("8817483") or ("10451071") or ("20140180454") or ("20060262545") or ("20110160654") or ("20180094631") or ("20130222235") or ("20100197166") or ("20160021998") or ("10124732") or ("8743203") or ("20020130770") or ("7543848") or ("10215177") or ("20160036118") or ("20190230259") or ("20120232663") or ("9176701") or ("20180013272") or ("20160129308") or				

		("9818559") or ("20170072285") or ("9846452")).PN. or (("10539860") or ("20150260581") or ("20120172803") or ("6144035") or ("20140061447") or ("20080205481") or ("20120281381") or ("10507255") or ("20120129580") or ("20170084983") or ("9415266") or ("20030213894") or ("20160324286") or ("9039659") or ("7009751") or ("20160242696") or ("20140028243") or ("20130083467") or ("20170302831") or ("9869435") or ("9294914") or ("10527265") or ("20140379106") or ("9757640") or ("20170003575") or ("8996082") or ("5132531") or ("5198664") or ("10303921") or ("20130312291") or ("6601768") or ("20120253485") or ("20160116943") or ("7100257") or ("7538316") or ("20150061872") or ("20160059782") or ("8467133") or ("10502548") or ("9779888") or ("9645607") or ("20120215163") or ("20160062398") or ("20130083464") or ("20180256049") or ("20160252888") or ("20190249853") or ("9794459") or ("20180207483") or ("10463285") or ("10238916") or ("9386932") or ("9289649") or ("7888629") or ("9750455") or ("20180279932") or ("8929966") or ("20070153498") or ("9900041") or ("20160048165") or ("20190342473") or ("20140277631") or ("9155553") or ("4015120") or ("20140268516") or ("20120249894") or ("20160317087") or ("9185816") or ("8837928") or ("9229494") or ("20130120963") or ("10488249") or ("7663798") or ("10082259") or ("5223872") or ("20160054537") or ("20130083470") or ("20110188180") or ("9943724") or ("20040039254") or ("9232670") or ("20170259116") or ("10514877") or ("10340386") or ("9392854") or ("20140180022") or ("9168001") or ("9760064") or ("20090040588") or ("20180328717") or ("20150030320") or ("9750976") or ("20150335816") or ("20140125913") or ("20120275100") or ("20130127711") or ("20200041335") or ("20190069843") or ("8797721") or ("20140180453") or ("20180129798") or ("10381485") or ("20150073236") or ("20140031151") or ("7766518") or ("20160262673") or ("20170266329") or ("20140168564") or ("9545474") or ("9539486") or ("20170329207") or ("5326968") or ("20140288395") or ("20110187245") or ("20180212060") or ("20120058845") or ("6677575") or ("20110160655") or ("20100073926") or ("10342467") or				

		("20090142724") or ("20130253422") or ("20010009265") or ("20130033736") or ("20180296165") or ("8506096") or ("20060262544") or ("20170300736") or ("9349260") or ("10143280")).PN. or (("20180259373") or ("20190377858") or ("10448840") or ("8964298") or ("10409143") or ("20080154156") or ("10154814") or ("20180064221") or ("20160191101") or ("9808671") or ("10366272") or ("5899418") or ("20150105633") or ("20150008009") or ("4871917") or ("20120218301") or ("10149041") or ("9268200") or ("9155367") or ("20020125322") or ("20190116415") or ("20060264730") or ("20140260677") or ("8864340") or ("9778685") or ("20190324593") or ("20130328462") or ("20200060589") or ("7703951") or ("4939359") or ("10451451") or ("10412846") or ("20180063621") or ("20190325188") or ("20160327416") or ("7645050") or ("20160262485") or ("20160151671") or ("20200019749") or ("9241096") or ("20200003590") or ("8923941") or ("20170060184") or ("9261720") or ("10368457") or ("10215597") or ("9297709") or ("20190045877") or ("20120078469") or ("20040050188") or ("20130127980") or ("20190120667") or ("9518813") or ("20080030835") or ("20180136042") or ("9332940") or ("7209277") or ("20190054780") or ("20200004113") or ("10578264") or ("8201973") or ("20150131837") or ("9606579") or ("20200026174") or ("20160128637") or ("20180274996") or ("9878670") or ("5823654") or ("20120165800") or ("7726847") or ("20160037876") or ("20140267139") or ("7417781") or ("20080154146") or ("20140171755") or ("20120085926") or ("20180125178") or ("20140275812") or ("9425601") or ("20030213847") or ("20150378432") or ("8899562") or ("9323084") or ("20140121539") or ("20160166139") or ("10568381") or ("9782063") or ("20140104488") or ("20150168730") or ("10484783") or ("20060126150") or ("20120325018") or ("20160106366") or ("6385822") or ("20200018970") or ("9450634") or ("7420159") or ("10216975") or ("20170336829") or ("20170239559") or ("20190282718") or ("9759988") or ("10352563") or ("9377626") or ("20190063746") or ("20180367713") or ("20130107111") or ("20110050398") or ("20180214079") or ("20160062213") or ("7166831") or ("8998840") or ("20200049555") or ("20170242506") or ("20090270811") or				

		("10369960") or ("20160134788") or ("9606358") or ("20160252801") or ("20020041621") or ("9439599") or ("20160257254") or ("20130083468") or ("20160167574") or ("10279216") or ("20130088447") or ("20040041221") or ("5138150") or ("8115621")).PN. or (("9360742") or ("9229675") or ("4354652") or ("20140275813") or ("7112471") or ("20110186345") or ("10123593") or ("4684231") or ("9279734") or ("8525675") or ("20060176165") or ("20120152883") or ("20190323670") or ("8801577") or ("20170296051") or ("8514059") or ("20150235426") or ("20130135477") or ("9182842") or ("20130328785") or ("20190306613") or ("20070171657") or ("20170216668") or ("20160209382") or ("9894964") or ("20090109633") or ("9550090") or ("9904501") or ("20100134414") or ("20130194813") or ("20130162427") or ("20190053584") or ("9811711") or ("20180239156") or ("20160309829") or ("9933623") or ("20020115352") or ("10188215") or ("20140268722") or ("20180220972") or ("20030016542") or ("20140260689") or ("20120212484") or ("20090096937") or ("9933816") or ("10349889") or ("20120212499") or ("9967445") or ("20190137677") or ("9974873") or ("20130285953") or ("20170031385") or ("7308769") or ("10488660") or ("9924760") or ("8551283") or ("10360432") or ("8426800") or ("20040001334") or ("20120281380") or ("20070171652") or ("20130037589") or ("9628681") or ("20130077236") or ("20050204598") or ("5898183") or ("20150131177") or ("8264074") or ("20190338924") or ("20140249661") or ("20120061775") or ("9625791") or ("20180184751") or ("20070171643") or ("10173099") or ("20050068769") or ("10391943") or ("5060520") or ("20130044444") or ("20150130626") or ("8196787") or ("20150366475") or ("8678625") or ("10543786") or ("10419649") or ("20070276251") or ("20160231572") or ("6855013") or ("20180128508") or ("20120218748") or ("20180296875") or ("20050000142") or ("20190253589") or ("10302951") or ("20050104347") or ("20130235607") or ("9261701") or ("20180220050") or ("10352517") or ("9924902") or ("10457196") or ("9651999") or ("9283054") or ("20140276192") or ("10352496") or ("20180118116") or ("20160247010") or ("10114414") or ("20170172268") or				

		("20170196112") or ("20040084741") or ("20190315267") or ("20200033815") or ("9157618") or ("20170128782") or ("20160363479") or ("20150179072") or ("9291823") or ("20180188772") or ("20170150821") or ("20140262848") or ("20130235610") or ("9183749") or ("20190204920")).PN.				
S666	57	(("20170344239") or ("20190145820") or ("20160364131") or ("20170115162") or ("9880725") or ("20180224326") or ("10527490") or ("20160363479") or ("9798458") or ("20170118854") or ("9880052") or ("10527491") or ("20150177056") or ("9383255") or ("20150177055") or ("9927294") or ("20150177059") or ("20160305819") or ("20150177063") or ("20180136038") or ("9383256") or ("9470577") or ("9823120") or ("20150102208") or ("9116045") or ("20150177058") or ("20150177057") or ("9086323") or ("10378953") or ("20190033126") or ("9753182") or ("9068887") or ("20170191866") or ("10060787") or ("10132680") or ("20150041663") or ("9551611") or ("20180249944") or ("10149645") or ("20190076082") or ("10072975") or ("20170069192") or ("10365156") or ("20190017866") or ("20170350815") or ("20190316960") or ("20140092238") or ("9766121") or ("20190204146") or ("7818142") or ("20090138244") or ("20180080818") or ("20190049292") or ("20190060678") or ("10139273") or ("20180017437") or ("20180274973")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 13:05
S667	23,522	G06F1/163,1632,1684,1694.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 13:13
S668	3,999	G01J1/429,0204,0228,0271,0437,0492,4204,4209.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 13:14
S669	68,365	G06F3/0481,0482,0484,04847.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 13:14
S670	72	((("SULLIVAN") near3 ("Jason"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	OFF	2020/03/16 13:17

			DERWENT			
S671	24	(("20040136167") or ("7242574") or ("20070258205") or ("20110102991") or ("7733635") or ("20150257297") or ("20190335600") or ("8976513") or ("10285293") or ("20040150959") or ("7256991") or ("20080013270") or ("7817412") or ("8405969") or ("20110090628") or ("20140307373") or ("9961788") or ("20120151098") or ("20130271905") or ("20130308266") or ("20140355206") or ("20130264919") or ("20040136166") or ("20140250267")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 13:18
S672	27	(("10209941") or ("6943774") or ("20180011674") or ("20190346954") or ("20180164852") or ("8990721") or ("10222835") or ("20110276911") or ("10540073") or ("20020140667") or ("20160216879") or ("20100099456") or ("20140210740") or ("8630681") or ("10331342") or ("20180196596") or ("20170083268") or ("9886848") or ("20090111515") or ("20150364037") or ("8229500") or ("8976516") or ("9952662") or ("10228761") or ("20190018454") or ("20140292808") or ("9442563")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 13:19
S673	3	(("20190356235") or ("20190357392") or ("20190353686")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 13:31
S674	229	(("20190356235") or ("20190357392") or ("20190353686") or ("20180070480") or ("10512199") or ("20150287525") or ("9336942") or ("20170214071") or ("20190208672") or ("10511042") or ("20140085026") or ("9484139") or ("20090206709") or ("7847450") or ("20130182478") or ("8907758") or ("20190123622") or ("20160079873") or ("9570995") or ("20150137926") or ("20180026533") or ("9960701") or ("20140060918") or ("20180332732") or ("20130314964") or ("20160347190") or ("10321611") or ("9538674") or ("8947191") or ("10164530") or ("20190103774") or ("20150365015") or ("20130314186") or ("20160079744") or ("20150357109") or ("8618899") or ("9350267") or ("9466415") or ("10033290") or ("9693476") or ("20190206615") or ("20120176749") or ("20090206662") or ("20160081233") or ("20140334102") or ("9204573") or ("20130170270") or ("8995128") or ("20190259984") or ("9788449") or ("20180025961") or ("7855887") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 13:31

		("20170141082") or ("10410953") or ("20010024377") or ("20190234996") or ("20130277820") or ("9773759") or ("20200083820") or ("6469921") or ("20180166756") or ("20170184457") or ("20170181333") or ("8829669") or ("20170264197") or ("10429247") or ("20140133204") or ("20190259985") or ("9986665") or ("20190245443") or ("20170077828") or ("20070071653") or ("20180187905") or ("20190385776") or ("20130306387") or ("10454375") or ("10367425") or ("10249428") or ("7572417") or ("10495327") or ("9318250") or ("9199550") or ("20190267184") or ("20140264519") or ("5305338") or ("20140185326") or ("9177948") or ("20150250074") or ("20120257431") or ("9425701") or ("8902622") or ("20130134786") or ("20140126263") or ("10202029") or ("9497887") or ("20160037677") or ("20150229206") or ("20130114319") or ("20180166668") or ("20140240946") or ("20170264194") or ("20180019056") or ("9431824") or ("20140112044") or ("20140140111") or ("9585293") or ("20190122958") or ("20150208500") or ("20190173394") or ("8754739") or ("9755535") or ("10256721") or ("20120105190") or ("9343219") or ("10374523") or ("9345160") or ("20070054162") or ("20150085532") or ("8038959") or ("20190362878") or ("8614617") or ("20160358704") or ("20150085533") or ("10431369") or ("20180304734") or ("20090294195") or ("20130107580") or ("20190230825") or ("7952856")).PN. or (("9985551") or ("20150084422") or ("20180350515") or ("8872610") or ("20190174647") or ("9647544") or ("20150326221") or ("10325716") or ("20120299678") or ("20130293335") or ("20150123479") or ("20140293655") or ("20180261370") or ("20170011842") or ("20180248484") or ("20120092120") or ("20160226396") or ("9653983") or ("6067242") or ("8462505") or ("10491122") or ("20170077810") or ("9728482") or ("20110222243") or ("8279035") or ("20140104913") or ("20190393800") or ("8860542") or ("8582291") or ("8525629") or ("20060139823") or ("20170069559") or ("7638904") or ("20110194247") or ("20190131053") or ("10199155") or ("9614454") or ("20180152117") or ("9935548") or ("10535460") or ("20160073556") or ("9202757") or ("10205316") or				

		("20140264435") or ("10582648") or ("20150308002") or ("20140085956") or ("20180269774") or ("20190237237") or ("9917529") or ("20090081514") or ("20170018921") or ("20150085536") or ("20150043262") or ("20190296605") or ("20190287714") or ("10141861") or ("20190334440") or ("9941694") or ("9894814") or ("20190297751") or ("20160055953") or ("20130094150") or ("10135327") or ("20130063237") or ("20180122552") or ("9793041") or ("20190115296") or ("20190027304") or ("8922997") or ("10490494") or ("20090059622") or ("20180309150") or ("20150208556") or ("20110019440") or ("20180359870") or ("9330834") or ("20180342959") or ("20090023045") or ("20180041135") or ("10554145") or ("7848118") or ("10285287") or ("7907042") or ("20190019611") or ("20190305771") or ("7911810") or ("20200043843") or ("9881724") or ("9947910") or ("20190252993") or ("9578790") or ("20170033336") or ("20170012267") or ("7767357") or ("9724999") or ("20110128759") or ("20080101097") or ("20200051729") or ("20180272889")).PN.				
S675	808	((("SHINDO") near3 ("Yusuke")) OR (("KATO") near3 ("Jun")) OR (("KITAMOTO") near3 ("Ryota")) OR (("SATO") near3 ("Shinnosuke")) OR (("IKEDA") near3 ("Toshiki")) OR (("SAKAGUCHI") near3 ("Takanori")) OR (("NISHIYAMA") near3 ("Kosuke")) OR (("FUSHIMI") near3 ("Takaaki"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/03/16 13:32
S676	230	(("20190356235") or ("20190357392") or ("20190353686") or ("20180070480") or ("10512199") or ("20150287525") or ("9336942") or ("20190208672") or ("20170214071") or ("10511042") or ("20140085026") or ("9484139") or ("20090206709") or ("7847450") or ("20130182478") or ("8907758") or ("20190123622") or ("20160079873") or ("9570995") or ("20150137926") or ("20180026533") or ("9960701") or ("20140060918") or ("20130314964") or ("20180332732") or ("9538674") or ("20160347190") or ("8947191") or ("10321611") or ("10164530") or ("20190103774") or ("20160079744") or ("20150365015") or ("20130314186") or ("20150357109") or ("9466415") or ("8618899") or ("9350267") or ("10033290") or ("9693476") or ("20190206615") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 13:32

		("20160081233") or ("20130170270") or ("20090206662") or ("8995128") or ("20190259984") or ("20120176749") or ("20140334102") or ("9788449") or ("9204573") or ("7855887") or ("20180025961") or ("20170141082") or ("20200083820") or ("10410953") or ("20190234996") or ("20170184457") or ("20180166756") or ("20130277820") or ("9773759") or ("20010024377") or ("10429247") or ("8829669") or ("6469921") or ("20170264197") or ("20190259985") or ("20170181333") or ("20130306387") or ("20180187905") or ("20140133204") or ("20170077828") or ("20070071653") or ("20190245443") or ("9199550") or ("20190385776") or ("9986665") or ("10367425") or ("10495327") or ("10454375") or ("7572417") or ("10249428") or ("9318250") or ("5305338") or ("20140185326") or ("20190267184") or ("20140264519") or ("9425701") or ("9177948") or ("8902622") or ("20120257431") or ("20150250074") or ("20140126263") or ("20160037677") or ("20130134786") or ("10202029") or ("20150229206") or ("9497887") or ("20130114319") or ("9585293") or ("20180166668") or ("9431824") or ("20140240946") or ("20170264194") or ("20180019056") or ("20150208500") or ("20140140111") or ("20140112044") or ("9755535") or ("20190173394") or ("8754739") or ("20120105190") or ("20190122958") or ("10256721") or ("20150085532") or ("10374523") or ("20070054162") or ("9345160") or ("9343219") or ("8614617") or ("8038959") or ("20190362878") or ("20160358704") or ("10431369") or ("20090294195") or ("20130107580") or ("20150085533") or ("20180304734") or ("7952856") or ("20180350515")).PN. or (("9985551") or ("8872610") or ("20190230825") or ("20150084422") or ("20190174647") or ("10325716") or ("20150326221") or ("20120299678") or ("20130293335") or ("20150123479") or ("9647544") or ("20140104913") or ("20120092120") or ("20140293655") or ("20180248484") or ("20180261370") or ("9653983") or ("10491122") or ("8279035") or ("20170077810") or ("9614454") or ("20160226396") or ("8462505") or ("9728482") or ("20170011842") or ("8860542") or ("20060139823") or ("20190393800") or ("8582291") or ("8525629") or ("20110222243") or ("20170069559") or ("7638904") or				

		("20190131053") or ("9935548") or ("6067242") or ("20110194247") or ("20180152117") or ("10535460") or ("9202757") or ("10199155") or ("20140085956") or ("20140264435") or ("20090081514") or ("10205316") or ("20190237237") or ("20180269774") or ("20160073556") or ("20130063237") or ("9917529") or ("20170018921") or ("20150308002") or ("20160055953") or ("20150085536") or ("9941694") or ("20190287714") or ("10582648") or ("20190115296") or ("20150043262") or ("10141861") or ("20130094150") or ("10135327") or ("20190296605") or ("9330834") or ("10490494") or ("8922997") or ("9793041") or ("20190297751") or ("20180122552") or ("20190334440") or ("20180359870") or ("20190027304") or ("9894814") or ("20180309150") or ("20090023045") or ("20090059622") or ("10285287") or ("20150208556") or ("20180041135") or ("20110019440") or ("20200043843") or ("9881724") or ("20190305771") or ("20180342959") or ("7907042") or ("20190019611") or ("7767357") or ("20170033336") or ("10554145") or ("20200051729") or ("7848118") or ("20190252993") or ("7911810") or ("9947910") or ("20170012267") or ("20080101097") or ("9724999") or ("20180033720") or ("20190198214") or ("20110128759") or ("9578790")).PN.				
S677	2	("20150229206" | "20170221632").PN.	US-PGPUB; USPAT	OR	OFF	2020/03/16 13:35
S678	1	"20150229206"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 13:36
S679	2	"20170221632"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 13:36
S680	13	("20060043581" | "20070284733" | "20110133329" | "20110149537" | "20120018906" | "20120153453" | "20150021756" | "20150289357" | "20160027709" | "20160190034" | "4000509" | "6156980" | "8531024").PN. OR ("9793048").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 13:36
S681	3,358	h05k7/1432,1427,1422,1457,2089.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 14:07

S682	2,502	H01F27/02,025,027.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 14:08
S683	4,413	H02M7/003.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 14:08
S684	4	S680 and react$4	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 14:09
S685	2	"20060043581"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 14:11
S686	4	(("20060043581") or ("20110133329") or ("20160027709") or ("20160190034")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 14:11
S687	2	"20060043581"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 14:12
S688	2	"20110133329"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 14:12
S689	2	"20160027709"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 14:13
S690	2	"20160190034"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 14:13
S691	8	S687 S688 S689 S690	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 14:13
S692	12	("20060108601" | "20120012880" | "20150021750" | "20150262902" | "20150262972" | "20160141231" | "5703399" | "6559536" | "6650559" | "9433075").PN. OR ("9875952").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 14:13
S693	8	("20020113302" | "20050051789" | "20060097385" | "20060124953" | "20090140414" | "20100128441" | "5536972" | "6650559").PN. OR ("9373555").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 14:14

S694	4	("5583377" | "5991156" | "6683795").PN. OR ("8310044").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 14:14
S695	45	("20020063327" | "20030042618" | "20040027802" | "20040113239" | "20040169998" | "20050006739" | "20050035436" | "20050051889" | "20060014444" | "20060027921" | "5359208" | "5623394" | "5805427" | "5952719" | "6084297" | "6225695" | "6497583" | "6533613" | "6680526" | "6703697" | "6706562" | "6747362" | "6750536" | "6751099" | "6752635" | "6845013" | "6853068" | "6979784" | "7030482" | "7038316" | "7091586" | "7117114").PN. OR ("7235880").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 14:14
S696	68	S692 S693 S694 S695	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 14:15
S697	4	S696 and react$4	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 14:15
S698	1	S697 and switch$3	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 14:15
S699	34	("4636752" | "4777455" | "6078117").PN. OR ("6650559").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 14:17
S700	5	S699 and (power near conver$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 14:18
S701	1	("20180159087").PN.	US-PGPUB; USPAT	OR	OFF	2020/03/16 14:32
S702	2	"20180159087"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 14:38
S714	6	(("9874908") or ("8988876") or ("20170069299") or ("20100321275") or ("7991442") or ("20160187935")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/17 22:29
S715	31	("20010014010" | "20040266496" | "20070097014" | "20080096620" | "20130045347" | "20130077221" | "20130083496" | "20130109435" | "20130143014"	US-PGPUB;	OR	OFF	2020/03/17 22:42

		| "20130165190" | "20130216740" | "20140205799" | "20150098182" | "20150116920" | "20160046049" | "20160142090" | "5847698" | "6301098" | "7050293" | "8310826" | "8658263" | "8988876" | "9013863" | "9086844" | "9172419" | "D734761").PN. OR ("9874908").URPN.	USPAT; USOCR			
S716	2	(("20130010405") or ("20140132854")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/21 12:55
S727	1	"9870030".PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/30 01:40
S728	1	("20160357261").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/30 02:02
S729	30	("0000002" | "20020171625" | "20040142749" | "20050197205" | "20070091070" | "20080042995" | "20090205878" | "20110037695" | "20110157019" | "20130178293" | "20130215024" | "20130324254" | "20140018173" | "20140282051" | "20150065090" | "20150100204" | "20160026216" | "20160179338" | "20160306422" | "20160357261" | "20160363996" | "20160364910" | "20170003798" | "20170024007" | "20170131767" | "20170151494" | "20170329440" | "5764164" | "6572108" | "8570273").PN.	US-PGPUB; USPAT	OR	OFF	2020/03/30 02:03
S730	0	S729 and electromaget$3	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/30 02:12
S731	6	S729 and electromagnet$3	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/30 02:13
S732	224	((("LARGE") near3 ("Timothy")) OR (("GHIONI") near3 ("Lincoln")) OR (("BABU") near3 ("Sarat")) OR (("LONGBOTTOM") near3 ("Matthew")) OR (("CARTER") near3 ("Duncan"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/03/31 00:49
S733	2,579	361/679.03,679.26,679.3,679.56.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 00:53

S734	20,697	H01L51/524,0097,56.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 00:53
S735	4,438	G06F1/1652.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 00:53
S736	1	"20190173041"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 00:56
S737	1,079	(("20190173041") or ("20170238412") or ("20160037625") or ("10143080") or ("9560751") or ("20150378391") or ("10201089") or ("20170034918") or ("20180054897") or ("9848494") or ("8526096") or ("20090195855") or ("9128277") or ("20130335806") or ("20170235341") or ("10289163") or ("20160048169") or ("20040233623") or ("10281956") or ("20180062094") or ("10411205") or ("7145768") or ("20180219165") or ("20160327987") or ("20070014084") or ("10254795") or ("10418572") or ("20050041048") or ("20040228080") or ("20070201197") or ("20040257755") or ("7349203") or ("7209344") or ("20040218352") or ("7136280") or ("7773371") or ("7218510") or ("6819550") or ("20050088812") or ("7035092") or ("7142415") or ("20160181345") or ("7046509") or ("20090249851") or ("9490312") or ("9636181") or ("20190035765") or ("8549888") or ("20170075464") or ("20140137618") or ("20170224398") or ("20160336523") or ("10500630") or ("20160179229") or ("9535522") or ("20170172002") or ("9766737") or ("20170371465") or ("7042714") or ("20160093685") or ("9812659") or ("20160014919") or ("9983714") or ("9425418") or ("9980402") or ("6986230") or ("20180348821") or ("20090254326") or ("20180097199") or ("9510470") or ("20050088814") or ("7957831") or ("20030086240") or ("10522783") or ("20060176655") or ("20170323934") or ("20160240602") or ("10068960") or ("20200029423") or ("9748322") or ("10462896") or ("20150238073") or ("7289315") or ("9823693") or ("20170194411") or ("20160172623") or ("20160065920") or ("20160093644") or ("10231607") or ("20180052486") or ("9379355") or ("9349758") or ("20190380566") or ("20190132947") or ("20160155788") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 00:56

		("20190391615") or ("9627463") or ("20180090713") or ("20170179215") or ("10444797") or ("20180203487") or ("9985086") or ("20180092166") or ("20050036283") or ("20160268546") or ("10342121") or ("20160266612") or ("20190132987") or ("9847506") or ("9939847") or ("10182474") or ("20170290106") or ("20150018622") or ("20180256145") or ("20140355195") or ("9782159") or ("20160181346") or ("9780157") or ("20160174304") or ("9980326") or ("9793334") or ("9348369") or ("10411084") or ("20180123060") or ("10334750") or ("10104957") or ("9706607") or ("20170332778") or ("20180062090") or ("10505147")).PN. or (("20150208799") or ("10465274") or ("20180182838") or ("20120119040") or ("20180335679") or ("9188275") or ("9935281") or ("20180010230") or ("8199124") or ("20120306787") or ("10495941") or ("20100282153") or ("20120162870") or ("20050110702") or ("10275068") or ("10496212") or ("20100171013") or ("9743757") or ("20160342077") or ("20080067312") or ("20170315399") or ("20190196685") or ("8757819") or ("9740035") or ("20140232956") or ("10372164") or ("9720311") or ("10254637") or ("20140078047") or ("20160172427") or ("7950613") or ("20150220118") or ("20180017855") or ("20180217708") or ("20190227599") or ("20190235688") or ("20150227034") or ("20150200375") or ("8215588") or ("20160087024") or ("10261682") or ("20140054438") or ("10247971") or ("9356087") or ("20180233552") or ("9316899") or ("20190333982") or ("10229963") or ("9385175") or ("10241542") or ("20100171720") or ("20140092356") or ("20170199544") or ("9909710") or ("20160240605") or ("20060132025") or ("20160275830") or ("20160172428") or ("9939101") or ("20170338294") or ("20170077147") or ("20160224066") or ("20170277226") or ("20120071752") or ("9952703") or ("20180053790") or ("20160313762") or ("20140101560") or ("9971380") or ("20160066409") or ("9818764") or ("9933870") or ("20180076229") or ("10509440") or ("20120071895") or ("9544994") or ("20160146979") or ("20120191107") or ("9684339") or ("20180219180") or ("9642241") or ("10367050") or ("20140367644") or ("20160081180") or ("10038013") or ("20180331322") or ("20160064466") or				

		("20160285046") or ("10305066") or ("10043827") or ("20190191582") or ("20170373272") or ("20190067411") or ("9865838") or ("9224793") or ("9276055") or ("9768415") or ("20180219179") or ("9903983") or ("10440848") or ("9029846") or ("20190105110") or ("20180212190") or ("20120071894") or ("10103354") or ("20090244456") or ("9575706") or ("20180220794") or ("20150142013") or ("20140078046") or ("8961533") or ("10555780") or ("10020464") or ("7551344") or ("20180219181") or ("10345639") or ("10121991") or ("20190302517") or ("10130427") or ("10381597") or ("20200061340") or ("10115928") or ("20170237027") or ("20180342699") or ("7304786") or ("20160268542") or ("20170200779") or ("10103179") or ("20110050586")).PN. or (("10381598") or ("20140055345") or ("20170062485") or ("8072437") or ("10199445") or ("20170263888") or ("20110041641") or ("20180197928") or ("20200004295") or ("10038154") or ("20180076236") or ("5509543") or ("9978966") or ("20160062503") or ("10304869") or ("20110254758") or ("9563279") or ("8077278") or ("9314306") or ("9886187") or ("20170160899") or ("20200091461") or ("20160266672") or ("10542819") or ("10261634") or ("20080123175") or ("20070046594") or ("9287329") or ("20160035759") or ("20090284978") or ("20060187531") or ("9563320") or ("20120071821") or ("20160190522") or ("10230063") or ("20200038280") or ("20160374228") or ("7625399") or ("20180284525") or ("9515099") or ("10483491") or ("20160316906") or ("9673423") or ("10154562") or ("20070038291") or ("20150189768") or ("20030173632") or ("7271945") or ("7304785") or ("20120050075") or ("9560761") or ("20180032108") or ("7393129") or ("20070023593") or ("20180033979") or ("10591762") or ("20170200915") or ("10152153") or ("20110043719") or ("20130265257") or ("20120071822") or ("9756757") or ("20160358989") or ("20190079561") or ("20130265260") or ("10456316") or ("9941337") or ("9450038") or ("20190038366") or ("20030070468") or ("6755064") or ("9844262") or ("20030056561") or ("20160035812") or ("6894420") or ("20160306393") or ("20060130550") or ("20140204285") or ("9606648") or ("20030074945") or ("20060187530") or ("20150310776") or				

		("20050253035") or ("5801542") or ("10586941") or ("8800650") or ("20150187325") or ("9712777") or ("20170262070") or ("20060187529") or ("20100114296") or ("20160216822") or ("9864409") or ("10585458") or ("8827948") or ("20100038076") or ("10120458") or ("10152089") or ("20140098095") or ("9406703") or ("20140183473") or ("20180090696") or ("20090199609") or ("20190086964") or ("9304348") or ("20090233021") or ("9904396") or ("9646407") or ("10211424") or ("20130289706") or ("20170032763") or ("20170068275") or ("8157857") or ("9095046") or ("9766659") or ("20140334135") or ("20080153053") or ("9798359") or ("20120203327") or ("20170188463") or ("20150331496") or ("10539978") or ("9678582") or ("8771338") or ("10490755") or ("8470020") or ("20160093683") or ("20140254071") or ("20140379070") or ("20160283086")).PN. or (("20090197217") or ("9843758") or ("20150160488") or ("20090284704") or ("9122319") or ("20170218657") or ("9214640") or ("8007121") or ("20170062773") or ("6860132") or ("20170263890") or ("20180129096") or ("20040216503") or ("9759420") or ("8031313") or ("20080154644") or ("10318129") or ("20190121397") or ("20190391680") or ("20150138103") or ("9261736") or ("20140049464") or ("8047034") or ("9530831") or ("6707176") or ("20150382446") or ("9326871") or ("6612143") or ("6732558") or ("9386846") or ("20070285337") or ("20180221036") or ("8082769") or ("10579104") or ("10186684") or ("20140217382") or ("10338424") or ("7738245") or ("20150253613") or ("10582612") or ("20170179423") or ("7746529") or ("20100090934") or ("9318427") or ("9482915") or ("8384616") or ("20130265262") or ("20130162504") or ("20180108330") or ("7883074") or ("10121455") or ("20040179165") or ("20050259189") or ("20190074478") or ("20190221631") or ("7076980") or ("20170207412") or ("9818974") or ("20150359698") or ("7283891") or ("20170255033") or ("10452171") or ("20190025623") or ("20080278798") or ("20190311692") or ("20200013851") or ("10038161") or ("9599324") or ("20170288009") or ("20200028113") or ("20170018250") or ("10340477") or ("20150196311") or ("20060010821") or ("7564436") or ("20190366623") or ("7148944") or ("6132217") or				

		("20170258538") or ("9614167") or ("20040111999") or ("20140346474") or ("20160087229") or ("20060238494") or ("20170345351") or ("20190343010") or ("9962176") or ("20170248816") or ("20170060188") or ("20170170206") or ("9754520") or ("20180337367") or ("10354566") or ("20160079336") or ("20140233227") or ("10488687") or ("20190259310") or ("20130081756") or ("20190340964") or ("7837467") or ("20170003825") or ("10424631") or ("9489913") or ("20180108716") or ("9647052") or ("20140055429") or ("20190150302") or ("20140217373") or ("20170359890") or ("10339892") or ("20180356859") or ("20100209165") or ("7469513") or ("9203050") or ("10224344") or ("10515570") or ("20070030439") or ("10514727") or ("9100752") or ("9182587") or ("10418436") or ("9880666") or ("20050080345") or ("10245776") or ("9659966") or ("20160236458") or ("20190203701") or ("10268238") or ("20140002973") or ("20180040838")).PN. or (("20190157312") or ("20140098075") or ("20190265758") or ("4612720") or ("10555414") or ("20070216987") or ("10512179") or ("20140217397") or ("7369209") or ("10514724") or ("10551880") or ("9439315") or ("20200073443") or ("20150070853") or ("20190207130") or ("9618023") or ("20100224734") or ("8418968") or ("10559766") or ("20190230783") or ("20200015857") or ("20160147102") or ("20200008308") or ("20120056038") or ("20060204675") or ("20160211472") or ("20190324498") or ("20180247993") or ("10492310") or ("20150036300") or ("20140015743") or ("10522785") or ("20180166652") or ("20110068243") or ("9844470") or ("20160227623") or ("20170042046") or ("10573706") or ("20200074893") or ("9983628") or ("20180175323") or ("8056865") or ("20160268524") or ("9459656") or ("10222638") or ("20190187506") or ("20030201372") or ("20080105801") or ("9769919") or ("7636189") or ("8922510") or ("20100217373") or ("20180279994") or ("10355241") or ("9349969") or ("20150201487") or ("20170229666") or ("9796169") or ("9284637") or ("20040000620") or ("20190279539") or ("20170060189") or ("10188343") or ("10345858") or ("10117306") or ("20180082632") or ("10585456") or ("9748505") or ("20110255146") or ("20050185111") or ("20170162821") or ("10007134") or				

		("20140337621") or ("20180258578") or ("20010007341") or ("9007755") or ("8505523") or ("10537306") or ("20110227822") or ("20190152129") or ("8001711") or ("20180169414") or ("9985228") or ("7222466") or ("20180356669") or ("10501884") or ("20170215272") or ("20150160509") or ("10497306") or ("20160195901") or ("20150298589") or ("20110297810") or ("8308408") or ("20020157911") or ("20160198560") or ("20190221617") or ("20140098028") or ("20090311065") or ("10078389") or ("20170153734") or ("20200031109") or ("20160215901") or ("20130265221") or ("20140055375") or ("20070216639") or ("20140347597") or ("9441762") or ("10217957") or ("9873361") or ("10325530") or ("20130010413") or ("20190278411") or ("20190150832") or ("20190013493") or ("20190366636") or ("20180301520") or ("8074948") or ("9939689") or ("9523881") or ("20140049449") or ("10448884") or ("20190346887") or ("20130293556") or ("7353576") or ("20190094641") or ("20110233345") or ("20040098094") or ("20150277496")).PN. or (("10121988") or ("10098244") or ("20090223590") or ("7675665") or ("10342120") or ("10048786") or ("20180161577") or ("20170367173") or ("20190162985") or ("7765657") or ("10510980") or ("20060109391") or ("10509279") or ("20080042002") or ("7340856") or ("20180068613") or ("20170060183") or ("10424749") or ("20160307973") or ("20170153670") or ("20170047351") or ("20180321764") or ("20150123137") or ("20080030827") or ("20180351117") or ("20120035521") or ("10243024") or ("10229632") or ("20120006000") or ("20190139463") or ("7704274") or ("20180337220") or ("20180168503") or ("20170059933") or ("20130185912") or ("9248048") or ("20140276323") or ("20180145124") or ("6361000") or ("20180065352") or ("20080190871") or ("20160037657") or ("20160099433") or ("20150029166") or ("9625948") or ("20200068728") or ("9601557") or ("9212689") or ("20190013379") or ("10599321") or ("20060184051") or ("10394283") or ("8740164") or ("20170068124") or ("9710021") or ("7086509") or ("20100085696") or ("10139672") or ("20170237025") or ("7624959") or ("20170256599") or ("20150066047") or ("20190019966") or ("10145542") or				

		("20200008309") or ("20060010677") or ("10019052") or ("20200052248") or ("20190081127") or ("20190221632") or ("9830840") or ("8783628") or ("10361385") or ("10172549") or ("9698375") or ("20170257988") or ("20140138637") or ("6794793") or ("9632576") or ("9241835") or ("9992862") or ("20140276324") or ("10461268") or ("20140255136") or ("10056446") or ("7419139") or ("10165715") or ("20130328764") or ("9691345") or ("10243164") or ("20150162388") or ("20190173030") or ("20170351168") or ("20120083724") or ("20120063133") or ("6461314") or ("6459464") or ("20150137102") or ("20140313733") or ("9668922") or ("20190173049") or ("20180368656") or ("9524049") or ("10483098") or ("20170323779") or ("20170338440") or ("20060022185") or ("20180092200") or ("10582938") or ("9129916") or ("6501210") or ("7549203") or ("20200092407") or ("10577828") or ("8955880") or ("20080018631") or ("20170360521") or ("20170062742") or ("20140270278") or ("20170371194") or ("20160111479") or ("10219370") or ("9952706") or ("20190227367") or ("20140331781") or ("20160227624") or ("9857674") or ("20170150575") or ("20140341672")).PN. or (("20200027940") or ("10111301") or ("20130032551") or ("20190131575") or ("20190334105") or ("10041867") or ("10514563") or ("9341888") or ("20180123061") or ("8395011") or ("20140299716") or ("20150220119") or ("20160155967") or ("10457029") or ("9935279") or ("10510816") or ("20160316541") or ("20200089277") or ("10459264") or ("20190191543") or ("20180098405") or ("10121978") or ("20180159055") or ("20140028597") or ("20140002385") or ("20140132488") or ("20170371195") or ("10461267") or ("9532431") or ("20200039176") or ("10121979") or ("20130012858") or ("20160037609") or ("20150021570") or ("20180063971") or ("20140035869") or ("9697764") or ("20180006250") or ("9565738") or ("20170150574") or ("20040186558") or ("20200058887") or ("20190366634") or ("20130300677") or ("9490215") or ("8674164") or ("7502159") or ("9882152") or ("RE47619") or ("20200051810") or ("20170157361") or ("7933068") or ("20160325457") or ("20150102298") or ("9048444") or ("8794884") or ("20190051753") or ("7868545") or ("9854667") or ("9839096") or ("10254799") or ("10433893") or ("9167917") or ("9612659") or ("9492329") or				

		("9832839") or ("20140231763") or ("9577203") or ("10302980") or ("6196377") or ("9074707") or ("7460193") or ("20170258539") or ("9414463") or ("20150029123") or ("20010018644") or ("10534433") or ("20190305237") or ("20050119694") or ("20180217640") or ("20170047547") or ("20200084890") or ("10564744") or ("20030004439") or ("8639082") or ("10153457") or ("10463438") or ("9793502") or ("9527428") or ("20120269485") or ("20190082517") or ("20170060283") or ("9104368") or ("20170301267") or ("20190150270") or ("20160041672") or ("20150131222") or ("20080264058") or ("10001809") or ("20200004296") or ("20170281205") or ("7580103") or ("20160351859") or ("10537346") or ("20190357366") or ("20120298181") or ("10525233") or ("20180102496") or ("9305980") or ("8070121") or ("20040000117") or ("20140209147") or ("10288973") or ("6847152") or ("20130169515") or ("20190057982") or ("20070135803") or ("20090051640") or ("5697197") or ("20120232459") or ("9007315") or ("8697983") or ("20150138737") or ("20150109544") or ("20070198074") or ("10446769") or ("20150185761") or ("20150034977") or ("20180114944") or ("20130343012")).PN. or (("10350101") or ("20180259805") or ("20190369566") or ("20030057350") or ("6774535") or ("20170071687") or ("6831391") or ("20160247867") or ("8182459") or ("20160349561") or ("20050078459") or ("10109745") or ("9820822") or ("20160079562") or ("20040090142") or ("8203261") or ("20190366630") or ("20200077827") or ("20140135677") or ("20080180621") or ("20120105763") or ("10559768") or ("20140176850") or ("20180046214") or ("20160106190") or ("9936863") or ("20170094813") or ("20190074332") or ("9434127") or ("9492073") or ("9629523") or ("20110116743") or ("6715255") or ("20110152738") or ("20160282899") or ("20170071688") or ("20070223080") or ("10374194") or ("20180055348") or ("20010001346") or ("20040090144") or ("6540312") or ("20080265107") or ("20150102296") or ("9130192") or ("20140307378") or ("20170188701") or ("20120206248") or ("8608647") or ("20120265215") or ("9564479") or ("8102659") or				

		("20190067606") or ("6904393") or ("20180004021") or ("10051750") or ("20130281904") or ("20180104107") or ("20060221269") or ("7578949") or ("20190139515") or ("20170119483") or ("20170271617") or ("9419065") or ("20180348556") or ("10602623") or ("20040160072") or ("9506279") or ("20100123059") or ("6923413") or ("9274559") or ("20120172774") or ("20030098595") or ("20160111028") or ("9157614") or ("9681796") or ("20120105742") or ("20180174505") or ("20170098435") or ("9812667") or ("20200015593") or ("20160124395") or ("10211276") or ("9223162") or ("10191517") or ("20160101593") or ("20160224059") or ("20140005485") or ("9406734") or ("20130271697") or ("8592640") or ("5685186") or ("20190355924") or ("10042392") or ("20070153375") or ("9291843") or ("20180353059") or ("20140042406") or ("10096669") or ("20190165076") or ("20170322598") or ("20070213812") or ("20180053905") or ("20190081257") or ("10281773") or ("8724935") or ("20140005488") or ("10121977") or ("20140005555") or ("10096668") or ("20190141843") or ("20160218305") or ("9293730") or ("7318572") or ("20130248670") or ("20190101997") or ("20180324961") or ("20140097408") or ("20140008503") or ("20040090143") or ("20190046021") or ("8187324") or ("20170160580") or ("10319265") or ("10070719") or ("10133373") or ("20170125728") or ("20140300529")).PN. or (("20170077211") or ("20050284991") or ("20070085961") or ("20150227245") or ("9723976") or ("20190059164") or ("20190179425") or ("20140270193") or ("8182418") or ("20140307396") or ("20150102326") or ("20190004363") or ("20190033984") or ("20090216083") or ("20150085471") or ("20170338296") or ("20160089195") or ("20070010864") or ("20140007472") or ("20190371880") or ("9872716") or ("10022197") or ("5685118") or ("20180084915") or ("5737894") or ("9558685") or ("10254798") or ("9304539") or ("20120081849") or ("20190238806") or ("20170373121") or ("20140135678") or ("20170216129") or ("20180019417") or ("9615728") or ("10185176") or ("20050011054") or ("20160035801") or ("20180233551") or ("20140005486") or ("10263063") or ("9649226") or				

		("20160070302") or ("20180120954") or ("6019323")).PN.				
S738	5	(("20190173041") or ("20160037625") or ("20170238412") or ("10143080") or ("9560751")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 00:57
S739	1,068	(("20190173041") or ("20160037625") or ("20170238412") or ("10143080") or ("9560751") or ("20140098549") or ("8764255") or ("20190195664") or ("20180348821") or ("20180182838") or ("10411084") or ("20160307973") or ("10510980") or ("10254795") or ("10201089") or ("20160327987") or ("20150378391") or ("20180054897") or ("20190207130") or ("10261634") or ("20170034918") or ("9848494") or ("20190324498") or ("10514724") or ("20140042406") or ("9419065") or ("20170371465") or ("20180356859") or ("9983714") or ("10268238") or ("20170075464") or ("20180108862") or ("20160179229") or ("20160181345") or ("20130001598") or ("9766737") or ("20180082632") or ("8373181") or ("9535522") or ("10026925") or ("20100308335") or ("20170315399") or ("20140098095") or ("20180123060") or ("9490312") or ("10497306") or ("20180150111") or ("9646407") or ("8237165") or ("20190108793") or ("20140307395") or ("10247971") or ("9349777") or ("20160079336") or ("20160081180") or ("9642241") or ("10600368") or ("10579103") or ("9647052") or ("9780157") or ("20160181346") or ("10289163") or ("20140232956") or ("20160266672") or ("20170235341") or ("9740035") or ("20160336523") or ("9697764") or ("10319933") or ("20180097199") or ("20140132488") or ("20120067134") or ("20190171322") or ("20150137102") or ("20140101560") or ("20140218856") or ("9812659") or ("20130119352") or ("10559767") or ("10229963") or ("20180123079") or ("9256250") or ("9490215") or ("8943898") or ("20180059729") or ("20170227805") or ("20140098040") or ("20140217373") or ("20200006679") or ("10522783") or ("20160231783") or ("20180062090") or ("9223398") or ("9817444") or ("9933643") or ("10488888") or ("9935281") or ("7816856") or ("20130279088") or ("20060132025") or ("9318427") or ("20200075886") or ("20200089282") or ("20100213819") or ("20180138448") or ("20170229674") or ("8724304") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 00:58

		("20180219165") or ("9971382") or ("10103179") or ("10014490") or ("20180004252") or ("10418572") or ("20170290106") or ("9929374") or ("20170172002") or ("20180062094") or ("10505147") or ("20110084898") or ("20160014919") or ("10230063") or ("20190259818") or ("20170162821") or ("20190140202") or ("9980402") or ("10411205") or ("9980326") or ("20180076236") or ("20170062485")).PN. or (("10121988") or ("20180033979") or ("9510470") or ("20170323934") or ("10304869") or ("20190305237") or ("20150226414") or ("20150021570") or ("20180138462") or ("20160093685") or ("20200035061") or ("20180175311") or ("20180197928") or ("10068960") or ("20140078046") or ("20190326371") or ("9048444") or ("20180090720") or ("9425418") or ("20170207412") or ("20160240602") or ("20160093644") or ("10209801") or ("20120026666") or ("10199445") or ("20180092166") or ("20140340609") or ("20120218219") or ("20180366059") or ("10211416") or ("20200028113") or ("20160064699") or ("9515099") or ("20170032737") or ("20180012551") or ("20160359132") or ("9575706") or ("20070297191") or ("20190369776") or ("20160035759") or ("9748322") or ("20180219179") or ("7766498") or ("20190196685") or ("10147902") or ("20190243488") or ("8576552") or ("8828763") or ("20180108330") or ("10038161") or ("10182474") or ("20160174304") or ("20180351117") or ("9349758") or ("10089922") or ("8716932") or ("10217406") or ("20150382446") or ("10103354") or ("20170294425") or ("20160226015") or ("20140078047") or ("20150187279") or ("10424749") or ("20200027380") or ("10514809") or ("20160372705") or ("9778772") or ("10582612") or ("20160155788") or ("10242975") or ("20180039352") or ("20150001477") or ("20170131846") or ("20050174335") or ("20170125728") or ("9786229") or ("20190152129") or ("9748520") or ("20180006270") or ("20170041990") or ("10430000") or ("9947895") or ("20180205036") or ("9614167") or ("20160087229") or ("9992825") or ("20190341430") or ("20160285055") or ("20200026482") or ("20140346474") or ("10374193") or ("20120012890") or ("9812667") or ("20170308196") or ("20180097197") or				

		("9203050") or ("20100165561") or ("9706607") or ("20170179215") or ("20150001483") or ("20160172428") or ("10303315") or ("9627463") or ("10261682") or ("20190044078") or ("20170194411") or ("20190319201") or ("10490774") or ("20160231837") or ("8199479") or ("20130081756") or ("20160380232") or ("20180366534") or ("20160124557") or ("9837634") or ("9570527") or ("9601557") or ("20150102326") or ("20180156433") or ("20190013379") or ("20190181380") or ("20140138637") or ("9029886") or ("10074824") or ("20180212190") or ("20140353625") or ("9793334")).PN. or (("20180219180") or ("20180011576") or ("10573709") or ("20170256599") or ("9293730") or ("9490308") or ("20140099479") or ("10305066") or ("20180219181") or ("20160227624") or ("9989991") or ("9806290") or ("10270047") or ("10121991") or ("20150200375") or ("10245776") or ("9461267") or ("9985086") or ("9983628") or ("20140055924") or ("20190140200") or ("20160216819") or ("20190278411") or ("20190041562") or ("20160172623") or ("20180090713") or ("9710090") or ("9120290") or ("10598838") or ("20180068621") or ("9532431") or ("10056446") or ("20100311488") or ("10115928") or ("10566568") or ("20170237027") or ("8581294") or ("20140049956") or ("10318129") or ("20160211472") or ("9295168") or ("20140055375") or ("20160283086") or ("9869460") or ("9379355") or ("9870108") or ("20190173047") or ("20180342699") or ("10154562") or ("20130265221") or ("9033547") or ("10038154") or ("20180331322") or ("20190333982") or ("20180108724") or ("20190146261") or ("20160268546") or ("8545327") or ("20160087024") or ("20160285046") or ("20170373272") or ("10305051") or ("20160358989") or ("10020464") or ("20180197935") or ("20170277226") or ("20150041779") or ("9470919") or ("9847506") or ("10381598") or ("9941337") or ("20140098034") or ("9768415") or ("10446636") or ("10381597") or ("20160111479") or ("9231221") or ("20180233552") or ("20120009702") or ("9450038") or ("9385175") or ("20170364187") or ("20170338294") or ("10509440") or ("9496522") or ("10319794") or ("20160322601") or ("20170170253") or ("20180033980") or ("20160035812") or ("20180122302") or ("20190386038") or ("20140354143") or ("8804324") or ("20100283713") or ("8378932") or				

		("20200058729") or ("10234975") or ("20160172427") or ("20160190522") or ("10340326") or ("20170315645") or ("20120091484") or ("10453396") or ("9577203") or ("20190181361") or ("9673423") or ("10367050") or ("20150008396") or ("20140217382") or ("20180286932") or ("10019052") or ("20160111481") or ("20150084003") or ("10028339") or ("20120307472") or ("20160224066") or ("10528166") or ("9287329") or ("9276055") or ("20170133448") or ("20120006978") or ("8674344") or ("9356087") or ("20170040395") or ("20190237690") or ("7349203") or ("20140225077") or ("20160064466") or ("9257677")).PN. or (("8203541") or ("20180075814") or ("20190181366") or ("20150069341") or ("20100311502") or ("9684339") or ("20180059718") or ("10505131") or ("20170330925") or ("20170062742") or ("7773371") or ("20200058887") or ("9626023") or ("9224793") or ("20170220201") or ("9287523") or ("20180159055") or ("9977641") or ("20180067598") or ("9698205") or ("20170345874") or ("20040108061") or ("20170244062") or ("9806285") or ("20190179425") or ("8287386") or ("20100231528") or ("20170075459") or ("20150221892") or ("20130146938") or ("20190372033") or ("9960220") or ("20170170247") or ("10394274") or ("20170301742") or ("20160301029") or ("20180212170") or ("9864438") or ("10593731") or ("20150102298") or ("20060013945") or ("9882152") or ("20180033831") or ("10347853") or ("20200083486") or ("20160240605") or ("20190165331") or ("20180375042") or ("20130278846") or ("20180076229") or ("20200035951") or ("10461267") or ("9647234") or ("20160370877") or ("20130278612") or ("10263204") or ("10152153") or ("20160035806") or ("10503274") or ("20140055345") or ("9287525") or ("10043827") or ("20180120954") or ("10114476") or ("10275045") or ("20160087013") or ("10068954") or ("20180033833") or ("20190033984") or ("20170263873") or ("20130265257") or ("20110037095") or ("20140313438") or ("9553136") or ("10516123") or ("8283688") or ("20180053790") or ("10038013") or ("9515128") or ("20170077195") or ("10541279") or ("9563279") or ("20140217397") or ("20190165287") or ("9041047") or ("9577017") or ("20190221631") or ("9349969") or ("10372164") or				

		("20200029423") or ("6819550") or ("20180076400") or ("20170373121") or ("20120161620") or ("20170062741") or ("7136280") or ("20180212188") or ("9659966") or ("20120249519") or ("20170077147") or ("20150037916") or ("9859346") or ("9759420") or ("20090244683") or ("20150287771") or ("20190036047") or ("6755533") or ("20200012373") or ("8659223") or ("10103356") or ("9287522") or ("9034673") or ("20140319483") or ("10177327") or ("9715315") or ("20160306393") or ("20160109973") or ("20150034934") or ("20030098832") or ("20190221142") or ("20180173277") or ("20200091247") or ("20100149223") or ("20070052617") or ("20190369778") or ("20190069425") or ("20160351648") or ("9960375")).PN. or (("20200052230") or ("9818764") or ("9893133") or ("20140054438") or ("10510816") or ("20190035872") or ("20040233623") or ("8023169") or ("20170062773") or ("20180321781") or ("20190057982") or ("20160093683") or ("20110267329") or ("20150253613") or ("9142597") or ("9448660") or ("20170179432") or ("20180337220") or ("20100123706") or ("20200083310") or ("9482915") or ("10050093") or ("10462896") or ("20040001033") or ("9385174") or ("10534399") or ("20160103537") or ("20200064887") or ("9909710") or ("20180033830") or ("10133373") or ("20160282899") or ("20140036168") or ("9939101") or ("7660028") or ("20160054758") or ("20150108433") or ("6972889") or ("20110148812") or ("20160276629") or ("20190035765") or ("20140028596") or ("20140183473") or ("20160204172") or ("20190165300") or ("10409410") or ("20200013830") or ("10281409") or ("9716248") or ("10580847") or ("20190101997") or ("20170235427") or ("20180031880") or ("20090126777") or ("20130285024") or ("20160066409") or ("20160204366") or ("9209414") or ("20130342429") or ("8599187") or ("20160351852") or ("10007370") or ("20200012110") or ("20180081219") or ("20040239581") or ("20180006266") or ("20170170255") or ("20160253935") or ("20160133674") or ("20190311256") or ("8552936") or ("9837474") or ("20180175131") or ("20180033358") or ("9917266") or ("20180348524") or ("20150171374") or ("9530831") or ("8237746") or ("20180284935") or ("8933626") or ("20160028043") or ("10503276") or				

		("20190157589") or ("20160299579") or ("20180047802") or ("20100149218") or ("10496136") or ("20170040127") or ("9544994") or ("20200052050") or ("10514775") or ("20180182839") or ("20160306390") or ("20170179207") or ("7057579") or ("20170329567") or ("8994618") or ("10326109") or ("20170155087") or ("9385342") or ("9939846") or ("9614168") or ("6710754") or ("20200073613") or ("20150227172") or ("20160183364") or ("20110122100") or ("9632344") or ("20180113545") or ("20200005000") or ("9711746") or ("9184224") or ("20190165076") or ("7145768") or ("10540029") or ("20120098736") or ("20160059698") or ("20190148670") or ("20150349032") or ("20180114474") or ("20160285039") or ("20180059728") or ("20150236306") or ("20190018519") or ("20050041048") or ("20160155791")).PN. or (("10256284") or ("9977466") or ("20180287092") or ("20140016284") or ("20150255522") or ("20150043136") or ("20180081399") or ("9640516") or ("20180246544") or ("10599378") or ("10153337") or ("10446770") or ("9214640") or ("20060132030") or ("20160027763") or ("20180233551") or ("20180188810") or ("20070201197") or ("20160285053") or ("8941631") or ("20170316738") or ("20170277288") or ("9881979") or ("10546908") or ("10199596") or ("20190391680") or ("20170236805") or ("20040218352") or ("20170160899") or ("10068727") or ("10564786") or ("20150187845") or ("20180180894") or ("20100117067") or ("20170308212") or ("20150221887") or ("20180224894") or ("20060132027") or ("10135024") or ("20190286320") or ("20190280225") or ("20190173042") or ("20190043930") or ("10505137") or ("20180108716") or ("20160334900") or ("20160081206") or ("10026357") or ("9831223") or ("10409433") or ("9944181") or ("8471836") or ("7209344") or ("20130026513") or ("20190206312") or ("20180143669") or ("20080117362") or ("8963817") or ("10090369") or ("20180076415") or ("9246126") or ("20190043420") or ("10446769") or ("20120206049") or ("20170263890") or ("10223952") or ("20160315129") or ("20150214195") or ("20180074361") or ("10162418") or ("20170117502") or ("9671913") or ("20120274596") or ("20190296097") or ("20170062534") or ("9524049") or ("20170086308") or ("20160035801") or				

		("9899457") or ("8957577") or ("20170317299") or ("20130099258") or ("20190258446") or ("20030098845") or ("20070046594") or ("9159707") or ("20130082908") or ("20180358423") or ("9886187") or ("20170344073") or ("20140035869") or ("10186683") or ("20180033843") or ("20150310787") or ("20040228080") or ("20140346455") or ("10289225") or ("20190229156") or ("20110273413") or ("20180076270") or ("10297771") or ("20040257755") or ("20140306985") or ("20150109271") or ("20180301664") or ("20170271617") or ("10355065") or ("20190214599") or ("9490307") or ("9400576") or ("10209796") or ("20140300529") or ("9577212") or ("20090219225") or ("20170053976") or ("20170237025") or ("10181576") or ("20100264816") or ("20050088812") or ("9570042") or ("8829790") or ("20180286314") or ("20190334105") or ("8884502") or ("9459446") or ("10199441") or ("9748315")).PN. or (("20090179557") or ("10186684") or ("20150221890") or ("20160218305") or ("8519385") or ("20180151657") or ("20200027940") or ("20170221972") or ("8362692") or ("20190140201") or ("20130265262") or ("20180095571") or ("8419535") or ("20120104420") or ("9997574") or ("10361385") or ("20100276671") or ("20180351128") or ("20170344053") or ("20070014084") or ("20180343753") or ("20190189700") or ("20180151627") or ("9406734") or ("9195272") or ("20190074474") or ("20100311489") or ("20190237699") or ("10466487") or ("20160197131") or ("20180315963") or ("20180348529") or ("20170054105") or ("10288973") or ("10505141") or ("20200005602") or ("20170025640") or ("20170206747") or ("9691345") or ("9006723") or ("10438454") or ("10446787") or ("20180061906") or ("10452171") or ("20150277099") or ("9601554") or ("20150277097") or ("20180224957") or ("20180314385") or ("20150080077") or ("10211276") or ("20190059164") or ("8890771") or ("20180063971") or ("20120105742") or ("20170032763") or ("8269212") or ("20160020399") or ("10096668") or ("20190341432") or ("20100311493") or ("10312299") or ("7142415") or ("9671643") or ("9134552") or ("20190213978") or ("10276639") or ("20180033834") or ("10014491") or ("20170229527") or ("20160306468") or				

		("7973472") or ("9985227") or ("9939978") or ("9367093") or ("20140226110") or ("20170062760") or ("8771078") or ("20190190438") or ("20150331508") or ("20060273304") or ("20170221762") or ("20150144921") or ("9013367") or ("10332943") or ("20190011955") or ("20170094817") or ("20150310826") or ("20100311494") or ("10043710") or ("9836165") or ("7218510") or ("10211424") or ("20130207946") or ("10236334") or ("9477076") or ("10180704") or ("20100066681") or ("20170188463") or ("9613497") or ("9046711") or ("20190207146") or ("20190103454") or ("20180069191") or ("20190348475") or ("20190131575") or ("9035285") or ("20190006442") or ("20160253034") or ("9711577") or ("7046509") or ("20180292654") or ("20120305981") or ("20190363266") or ("20190088726") or ("9455405") or ("20180190170") or ("20190131580") or ("20180188186") or ("9412977") or ("7999465") or ("20130063022") or ("20150236309") or ("20130285885") or ("8711566") or ("8698750") or ("9362521") or ("20150277098")).PN. or (("20170132974") or ("20130194528") or ("20190157356") or ("9924125") or ("20130337588") or ("9494792") or ("10209813") or ("20110233570") or ("20160285033") or ("9336723") or ("9390642") or ("10475241") or ("9488862") or ("20190261519") or ("10019103") or ("20150195936") or ("20200044003") or ("20130020967") or ("10326097") or ("20170220145") or ("10051750") or ("9680131") or ("20140177182") or ("9507191") or ("20190341566") or ("10593745") or ("20180350885") or ("20160084994") or ("20140268293") or ("20060204675") or ("20170033162") or ("20190087051") or ("20160055798") or ("20180374912") or ("20170200545") or ("20150188082") or ("20130265260") or ("9812511") or ("9172064") or ("10403684") or ("10283729") or ("7035092") or ("20050184672") or ("20170003825") or ("20130021289") or ("20170236883") or ("20180068987") or ("20180032189") or ("20180040633") or ("20140225838") or ("10388215") or ("20140211399") or ("20190074478") or ("20180315956") or ("20190181208") or ("20190096319") or ("20190383474") or ("9793501") or ("8896236") or ("20140332769") or ("8618730") or ("8784189") or ("10535825") or ("10026787") or ("7368307") or ("10269874") or ("20190197924") or ("10394278")				

		or ("8764239") or ("7027044") or ("8592833") or ("10134715") or ("20190088631") or ("10271425") or ("9606648") or ("10559779") or ("20150185960") or ("8987043") or ("20170117499") or ("9552770") or ("20180033832") or ("20160365388") or ("10564326") or ("20190312225") or ("20190157312") or ("10340477") or ("10254461") or ("10512178") or ("10380938") or ("20190067409") or ("20090256471") or ("20180196555") or ("20140306941") or ("10585635") or ("20190027550") or ("20200073443") or ("20190229282") or ("20200059545") or ("20190189716") or ("20160295685") or ("20170110529") or ("20150079711") or ("9271402") or ("20170244061") or ("20140197385") or ("20190073946") or ("20060220010") or ("20190081257") or ("9875718") or ("20190259968") or ("20160307968") or ("20180203487") or ("10305064") or ("20150024528") or ("20150221711") or ("20140049449") or ("9881982") or ("10488886") or ("20140239277") or ("20150170575") or ("9825101") or ("20160288705") or ("10541295") or ("10270059") or ("9000428") or ("20130058063") or ("20190198801") or ("20180175117")).PN. or (("10175843") or ("9543372") or ("9880666") or ("10134773") or ("9595574") or ("20050259189") or ("20180294324") or ("20150373864") or ("20040212603") or ("10529793") or ("20150115248") or ("20170118859") or ("20160204169") or ("20170090644") or ("9210810") or ("10514727") or ("10114491") or ("20130069067") or ("20160218153") or ("20170294488") or ("20180275757") or ("10181504") or ("20180047320") or ("20110186869") or ("20180324961") or ("20120212966") or ("9099649") or ("20190025886") or ("10361254") or ("20180182983") or ("9614192") or ("20070103407") or ("20110227896") or ("20170170206") or ("9812515") or ("10276823") or ("20140295150") or ("20170309691") or ("20190138258") or ("8851952") or ("9991317") or ("20160211482") or ("10360432")).PN.				
S740	31,073	g06f1/1626,1656,1635,181,183,203,184,1688.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 01:22
S741	7,283	H04M1/026,0277,035,03,0262.CPC.	US-PGPUB;	OR	OFF	2020/03/31 01:22

			USPAT; USOCR			
S742	8	(("20170068288") or ("20120194997") or ("8570736") or ("20140104807") or ("8988846") or ("8368643") or ("20120050151") or ("20120176277")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 01:25
S743	695	(("20200081500") or ("20150169014") or ("9182794") or ("20190317578") or ("8107239") or ("20100220445") or ("20190317576") or ("8717762") or ("20120092830") or ("7733644") or ("20090273893") or ("10579113") or ("20190317572") or ("20190317574") or ("10401926") or ("10423200") or ("20190317571") or ("10579112") or ("20190317575") or ("8515589") or ("9845805") or ("6988537") or ("20120130545") or ("20120026677") or ("20050006062") or ("20190129480") or ("9915985") or ("20180112669") or ("20100328878") or ("10558244") or ("8926414") or ("6909602") or ("8405997") or ("20150124398") or ("5331508") or ("9229499") or ("20030218862") or ("20030001046") or ("6568635") or ("10585451") or ("20110310315") or ("9575524") or ("20170060201") or ("20150084490") or ("5115996") or ("20070139882") or ("9446670") or ("7283359") or ("10551888") or ("20200050247") or ("20060027704") or ("20070097628") or ("20120229982") or ("8625279") or ("20120229978") or ("8743541") or ("3490720") or ("8531838") or ("20200025072") or ("5170963") or ("20050068732") or ("7203062") or ("20080266796") or ("5671690") or ("8087618") or ("7660119") or ("20060285291") or ("20100097764") or ("3146970") or ("9587585") or ("4205813") or ("7345875") or ("7830663") or ("10372575") or ("20070230114") or ("4461436") or ("20070230124") or ("20190235982") or ("10499540") or ("7400501") or ("7871319") or ("6822863") or ("5054721") or ("6771499") or ("7707711") or ("9825516") or ("20200055595") or ("20190239384") or ("7925457") or ("20040100765") or ("9862486") or ("9280179") or ("20100088045") or ("20160047274") or ("9907201") or ("10356942") or ("9085355") or ("20070018034") or ("20160109905") or ("10487690") or ("20080180910") or ("20140158816") or ("9229477") or ("20150274292") or ("10383256") or ("20140160657") or ("20180184545") or ("6918244") or ("20170257984") or ("20180265208") or ("20140160656") or ("20160097371") or ("10390462") or ("3986686") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 01:33

		("7499273") or ("7286345") or ("20070146988") or ("10368468") or ("20030033798") or ("20130327507") or ("10368469") or ("20180235105") or ("10133313") or ("20060176664") or ("20190235586") or ("20090108125") or ("10591960") or ("7230825") or ("20130286292") or ("20110317364") or ("10551881") or ("20010029628")).PN. or (("6151211") or ("20150163960") or ("8964383") or ("5251096") or ("7823840") or ("5355278") or ("20180355739") or ("10429885") or ("5640740") or ("20060094347") or ("20180267578") or ("20090009958") or ("10557416") or ("6270036") or ("20090168331") or ("5255154") or ("10528100") or ("4084213") or ("20110157826") or ("20150246725") or ("20200047898") or ("9997977") or ("20080002358") or ("20190380229") or ("10591963") or ("9363926") or ("20020018337") or ("7719831") or ("10314206") or ("7474526") or ("20080037227") or ("6496369") or ("20170009657") or ("20120113593") or ("10398060") or ("8395889") or ("20170168529") or ("20170268409") or ("20180284858") or ("10440863") or ("6256193") or ("20190335625") or ("10072849") or ("10174665") or ("9448601") or ("20200081506") or ("20200033921") or ("6353536") or ("20190185155") or ("20060279930") or ("4285482") or ("20050185376") or ("20170363299") or ("5479676") or ("20190107039") or ("6141215") or ("20070041157") or ("9367102") or ("20020122717") or ("20070227705") or ("20140009883") or ("5646820") or ("10273808") or ("20030051292") or ("20170130590") or ("6270309") or ("4131252") or ("9237675") or ("8559173") or ("20110114070") or ("6049455") or ("8899513") or ("20110222237") or ("20100077724") or ("6668408") or ("5638573") or ("6353529") or ("20180222580") or ("5056331") or ("20070290098") or ("20180235106") or ("20120120593") or ("8272204") or ("20040139546") or ("20130070159") or ("20140131129") or ("5430607") or ("7258308") or ("6941598") or ("8305756") or ("6266243") or ("5016837") or ("9650992") or ("20190063306") or ("20150107224") or ("8453428") or ("20080209667") or ("20100087956") or ("20130286590") or ("20160207624") or ("20190335626") or ("20190135422") or ("8649174") or ("9868523") or ("20050217065") or ("7273089") or ("6912129") or ("20170022888") or ("20080043434") or ("20190390580") or ("10151236") or ("7788765") or ("20190356198") or				

		("9381803") or ("20070222223") or ("20170350420") or ("9951793") or ("20030062443") or ("20140185223") or ("5590024") or ("20080019093") or ("20030085319") or ("3865508") or ("4143646") or ("7660118") or ("20130020444") or ("20180334966") or ("20170345606") or ("20090103265") or ("10473037") or ("20040004162") or ("7532470")).PN. or (("5663867") or ("20050052843") or ("20110200219") or ("20070121292") or ("20020184730") or ("7427814") or ("20190054407") or ("9162260") or ("6688965") or ("9298232") or ("20050007739") or ("8870125") or ("20200025137") or ("20180051716") or ("20050113015") or ("5507453") or ("9905274") or ("6886776") or ("20140224938") or ("7649736") or ("6243261") or ("20040134024") or ("20180036585") or ("20170305478") or ("10584717") or ("20080037217") or ("20170107944") or ("8964395") or ("20190248388") or ("20080068796") or ("8675365") or ("20130075178") or ("20190037728") or ("6631534") or ("20070230120") or ("7852628") or ("6725500") or ("10441844") or ("20190024520") or ("9146596") or ("7447022") or ("4398683") or ("10004164") or ("3948469") or ("20090244843") or ("20140139995") or ("20140251389") or ("20180334918") or ("10390463") or ("20150220121") or ("20160090892") or ("7247089") or ("20190301486") or ("10077740") or ("6094347") or ("20110120078") or ("20090108141") or ("6212069") or ("10035224") or ("20180128161") or ("10442478") or ("20150116929") or ("10437286") or ("2974904") or ("8593809") or ("20030184961") or ("20130134265") or ("10146231") or ("8602150") or ("9999546") or ("10435046") or ("20200011567") or ("9668385") or ("20090102201") or ("6561456") or ("7878458") or ("20150208554") or ("10125671") or ("20180352676") or ("20140364048") or ("20170057621") or ("20120161596") or ("20050243511") or ("20130337735") or ("20190275366") or ("8345377") or ("20130242502") or ("20200010127") or ("4033526") or ("7508663") or ("9581071") or ("20050162831") or ("20160037687") or ("8300410") or ("9204576") or ("4160494") or ("20190190053") or ("20100012766") or ("20180373294") or ("20090160197") or ("9655284") or ("9241427") or ("9474190") or ("8360356") or ("20150359680") or				

		("20190196398") or ("10207812") or ("20160130973") or ("8982555") or ("6181554") or ("20190112062") or ("20190315461") or ("20190118958") or ("6111748") or ("20200023987") or ("20080104793") or ("10539985") or ("20190193864") or ("20190353081") or ("7539009") or ("6547021") or ("10012103") or ("20050280986") or ("20170031392") or ("20040201958") or ("6622649") or ("20030016495") or ("20160280324") or ("20190332822") or ("7782613") or ("9408509")).PN. or (("5505587") or ("20040257766") or ("20140092542") or ("20120014060") or ("20170284303") or ("20150074936") or ("7937945") or ("7112131") or ("6175493") or ("6980435") or ("20170181326") or ("20120228046") or ("10208676") or ("20130003284") or ("5890460") or ("7372695") or ("10189524") or ("20120155024") or ("20180348826") or ("20180044013") or ("20190047697") or ("20150184662") or ("9618009") or ("20040070942") or ("8899653") or ("20180263820") or ("8085537") or ("20140151139") or ("2252528") or ("20110249401") or ("5802640") or ("20160294255") or ("20110045866") or ("5748444") or ("20130070160") or ("7315448") or ("20050168945") or ("6072696") or ("20130109290") or ("6362959") or ("5992792") or ("10377480") or ("20110157744") or ("9579968") or ("7984684") or ("20170175637") or ("20140202539") or ("20150264836") or ("6438776") or ("20200097052") or ("20060023422") or ("9995221") or ("20160331198") or ("20040026563") or ("10292554") or ("20140078668") or ("5906017") or ("20120090440") or ("6407921") or ("6582292") or ("20160299545") or ("20050268612") or ("9169009") or ("9596790") or ("9844309") or ("9108725") or ("20180313698") or ("10534406") or ("20190041919") or ("9995211") or ("5836549") or ("6808140") or ("20160375986") or ("8544808") or ("8295040") or ("9206912") or ("20190135426") or ("20070129000") or ("20030109211") or ("6038128") or ("20160245152") or ("20110304976") or ("7716913") or ("20140119892") or ("8953321") or ("20090320380") or ("9371836") or ("8726773") or ("10436649") or ("9648785") or ("20190269032") or ("20070024089") or ("20180116478") or ("6717808") or ("20190223670") or ("20090237881") or ("20040253886") or ("20060243878") or ("20130044429") or				

		("10034411") or ("20110143644") or ("9678546") or ("20190169896") or ("20160088774") or ("6042474") or ("20160046369") or ("7247067") or ("20170176014") or ("20150369500") or ("20140160668") or ("20150110614") or ("20140027537") or ("9497891") or ("9152190") or ("9573680") or ("7878888") or ("20180334962") or ("10072859") or ("20160021790") or ("20180058327") or ("20170094835") or ("7399029") or ("4216924") or ("20090277993") or ("5531406") or ("20170176013") or ("9459669") or ("9936612") or ("9945562") or ("5694889") or ("20140209286")).PN. or (("20200024967") or ("3583660") or ("2348252") or ("5906016") or ("9879591") or ("6819563") or ("9071804") or ("20190128296") or ("9989260") or ("20050264995") or ("20180324977") or ("8205821") or ("6226180") or ("9970674") or ("20090185349") or ("9995500") or ("8210914") or ("20130120874") or ("9709069") or ("20170101884") or ("20060075954") or ("20190301399") or ("20170069923") or ("3977630") or ("20110120081") or ("20160157386") or ("6508211") or ("9554490") or ("20110014028") or ("20110045759") or ("20050286225") or ("20140237763") or ("20130336781") or ("20150212556") or ("9152073") or ("6857492") or ("9616995") or ("20100051753") or ("20190085706") or ("6469892") or ("9551298") or ("4709879") or ("20150260095") or ("20110232026") or ("5893408") or ("20160215999") or ("20180058472") or ("20070227708") or ("20070171613") or ("10280786") or ("8443586") or ("20030011986") or ("20140079431") or ("20170188487") or ("7862410") or ("20090227197") or ("20180325205") or ("20080141921") or ("20100139908") or ("8157001") or ("5959836") or ("9894807") or ("6724624") or ("9874176") or ("7211742") or ("20160320082") or ("9913410") or ("20140287671") or ("8833692") or ("8403736") or ("4457666") or ("20180363466") or ("8730664") or ("4000612") or ("4892269") or ("3541794") or ("20200055586") or ("20200080443") or ("20190045659") or ("20120038163") or ("4745740") or ("4044973") or ("20160201602") or ("20030091433") or ("20010050840") or ("20160272301") or ("6507493") or ("8533902") or ("10040563") or ("9970419") or ("5620153") or ("20200006794") or ("10474207") or ("7859841") or ("20160076271") or ("6241007") or ("8783336") or ("20180347828") or ("20160324037") or				

		("5738492") or ("20020017102") or ("20100251692") or ("10539331") or ("10133320") or ("9714082") or ("8817474") or ("4696442") or ("20130105139") or ("20130104383") or ("8797740") or ("20090219673") or ("20010010623") or ("20020150464") or ("8858308") or ("8929070") or ("20130155615") or ("6474936") or ("5598990") or ("20160003189") or ("4640344") or ("6544116") or ("20170311486") or ("9163583") or ("9458825") or ("20020031961") or ("2390859") or ("20150099451") or ("10072609") or ("20190153875") or ("6119463") or ("9388601") or ("10037062") or ("9239060")).PN. or (("10024562") or ("6371406") or ("6385043") or ("8358026") or ("20190387939") or ("20190073004") or ("20180170456") or ("20180220551") or ("10462933") or ("7734381") or ("20160357230") or ("20110069452") or ("10570751") or ("10533487") or ("6439938") or ("20080094802") or ("7874268") or ("10405454") or ("20140271192") or ("7093553") or ("10017214") or ("20180187591") or ("3026067") or ("20130264027") or ("7739984") or ("20200051540") or ("6958906") or ("20180328607")).PN.				
S744	353	((("SHAW") near3 ("Timothy")) OR (("NORTH") near3 ("Travis"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/03/31 01:34
S745	14,431	g06f1/1616,1681,1675,1641.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 01:38
S746	0	E05D1/05.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 01:38
S747	531	E05D7/04.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 01:38
S748	191	E05D11/10.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 01:39

S749	267	HAUGHTON.XA.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 01:48
S750	1,400	HAUGHTON.XP.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 01:48
S751	1,667	S749 S750	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 01:49
S752	10	S751 AND MOPHIE	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 01:49
S753	85	(("20190317564") or ("20140347000") or ("9652002") or ("20170300093") or ("9965002") or ("7251127") or ("9256258") or ("20040169995") or ("20130235521") or ("20040233620") or ("6944012") or ("20030223185") or ("6788527") or ("20140207924") or ("20120166676") or ("8682962") or ("9379942") or ("20130271373") or ("20190258291") or ("6775129") or ("9405333") or ("8988354") or ("20030221876") or ("20130229393") or ("20050213297") or ("6157958") or ("8446359") or ("20040160735") or ("20120281356") or ("20150277492") or ("20150036275") or ("8896580") or ("20180224891") or ("9836084") or ("10353431") or ("20160231789") or ("20160062443") or ("20160066126") or ("9158336") or ("20010022719") or ("9507558") or ("20170316683") or ("20120087078") or ("6282082") or ("7025274") or ("8711552") or ("20030222149") or ("20140312827") or ("20030222848") or ("9620976") or ("7542052") or ("20120166521") or ("20160305797") or ("9927902") or ("9367149") or ("20160209890") or ("20190345741") or ("20140327630") or ("20120162058") or ("9477272") or ("20110222238") or ("9002925") or ("20180240329") or ("20140300586") or ("20140285962") or ("8749963") or ("10242562") or ("10069191") or ("20180169327") or ("20090187677") or ("20040039862") or ("9417894") or ("7952569") or ("20150025375") or ("8907986") or ("20200061456") or ("20090244009") or ("20170337025") or ("10488837") or ("20120236485") or ("20170235416") or ("8208245") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 01:51

		("20160274682") or ("8947861") or ("9895484")).PN.				
S754	5	(("20190317564") or ("20140347000") or ("9652002") or ("20170300093") or ("9965002")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 01:52
S755	18,123	H02J7/342,025.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 01:54
S756	7,149	F16M11/041,105,2021,38.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 01:54
S757	20,808	G06F1/1632,1626.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 01:54
S758	405	("20020147035" | "20030096642" | "20030218445" | "20040097256" | "20050090301" | "20050231159" | "20050248312" | "20060058073" | "20060099999" | "20070152633" | "20070167190" | "20070236180" | "20080007214" | "20080096620" | "20080108395" | "20080123287" | "20080132289" | "5368159" | "5586002" | "5604050" | "5610979" | "5708707" | "5711013" | "5864766" | "6043626" | "6184654" | "6317313" | "6324380" | "6538413" | "6555990" | "6614722" | "6992461" | "7166987" | "7400917" | "7428427" | "7479759" | "D372896" | "D392248" | "D392939" | "D400495" | "D460411" | "D547056" | "D547057" | "D556681" | "D558972" | "D558973" | "D561092" | "D575056" | "D581151" | "D582149" | "D587896").PN. OR ("7612997").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 01:55
S759	121	((("HAMANN") near3 ("Dennis")) OR (("ROBSON") near3 ("Chris")) OR (("BODNAR") near3 ("Eric"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/03/31 02:00
S773	1	"8570273".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 02:31
S774	20,808	G06F1/1632,1626.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 02:32

S775	7,859	G06F1/16,1637.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 02:32
S776	2,969	g06f3/014.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 02:32
S777	6,372	A63F13/24,23,25,30.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 02:32
S778	0	361/679.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 02:32
S779	7,576	361/679.01-679.03.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 02:33
S780	214	((("BRISTOL") near3 ("Peter")) OR (("CHEN") near3 ("Yi-Yaun")) OR (("TOMPKINS") near3 ("Glen"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/03/31 02:33
S781	1	("6141214").PN.	US-PGPUB; USPAT	OR	OFF	2020/03/31 12:41
S782	767	h05k7/20709,20718.cpc.	US-PGPUB; USPAT	OR	OFF	2020/03/31 12:46
S783	896	h05k7/20009,20127.cpc.	US-PGPUB; USPAT	OR	OFF	2020/03/31 12:47
S784	182	S782 and (inlet and outlet)	US-PGPUB; USPAT	OR	OFF	2020/03/31 12:47
S785	246	S783 and (inlet and outlet)	US-PGPUB; USPAT	OR	OFF	2020/03/31 12:47
S786	143	S784 and (heat near (dissipat$3 or exchang$3))	US-PGPUB; USPAT	OR	OFF	2020/03/31 12:48

S787	173	S785 and (heat near (dissipat$3 or exchang$3))	US-PGPUB; USPAT	OR	OFF	2020/03/31 12:48
S788	971	h05k7/20536,20545,20563,20554,20618.cpc.	US-PGPUB; USPAT	OR	OFF	2020/03/31 13:02
S789	229	S788 and (inlet and outlet)	US-PGPUB; USPAT	OR	OFF	2020/03/31 13:02
S790	124	S789 and (heat near (dissipat$3 or exchang$3))	US-PGPUB; USPAT	OR	OFF	2020/03/31 13:02
S791	67	S790 and (duct$1 or ductwork$1 or plenum$1)	US-PGPUB; USPAT	OR	OFF	2020/03/31 13:03
S792	72	S790 and (duct$1 or ductwork$1 or plenum$1 or baffle$1 or baffel$1)	US-PGPUB; USPAT	OR	OFF	2020/03/31 13:03
S793	13	(("20200073449") or ("20090014160") or ("9033028") or ("7740054") or ("20110056659") or ("20080087407") or ("20140290908") or ("20070091566") or ("20050135048") or ("20180231878") or ("9121409") or ("20110096497") or ("7948754")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 13:05
S794	5	S792 not S791	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 13:35
S795	52	S790 not S792	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 13:35
S796	267	haughton.xa.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 13:35
S797	1,400	haughton.xp.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 13:35
S798	1,667	S796 S797	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 13:35
S799	474	S798 and (heat near (dissipat$3 or exchang$3))	US-PGPUB; USPAT	OR	OFF	2020/03/31 13:35

S800	144	S799 and (inlet and outlet)	US-PGPUB; USPAT	OR	OFF	2020/03/31 13:36
S801	55	S800 and (duct$1 or ductwork$1 or plenum$1 or baffle$1 or baffel$1)	US-PGPUB; USPAT	OR	OFF	2020/03/31 13:36
S802	33	("20050145366" | "20060120035" | "20060171123" | "20060198105" | "20060215363" | "20070035925" | "20070047200" | "20070171614" | "20070230118" | "20080068800" | "20080106864" | "20080151501" | "20080218969" | "20090034171" | "20090097203" | "20090116188" | "20090154104" | "20090262497" | "20090310301" | "20100033687" | "20100172098" | "20100254086" | "20100302727" | "20110058330" | "20110080701" | "20110116230" | "20120002371" | "20120050991" | "20130141867" | "20130188309" | "20130242542" | "20140076521" | "7382616").PN. OR ("9643233").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 13:44
S803	1	"20080158814"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 14:04
S804	23	("7256992" | "6036360" | "7215552" | "20060120038" | "5684674" | "6278608" | "6449150" | "7247069" | "4730233" | "7154748" | "5210680" | "5528455" | "6768651" | "6912131" | "7075788" | "7079387" | "7508663" | "6330155" | "7152418" | "4739444" | "6047836" | "6272012" | "6522541").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 14:05
S805	25	("4356531" | "4502099" | "4672509" | "4899254" | "4902239" | "5101320" | "5210680" | "5416427" | "5914858" | "6047836").PN. OR ("6278608").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 14:20
S806	42	("4672509" | "5034852" | "5528455" | "5544012" | "5684674" | "5892654" | "5928076" | "5943219" | "6052282" | "6163454" | "6211458" | "6297950" | "6330156").PN. OR ("6449150").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 14:21
S807	66	S805 S806	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 14:24
S808	53	("6053808" | "6075698" | "6081425" | "6088223" | "6104003" | "6244953" | "6297958" | "6449150" | "6867966" | "6876549" | "6932443" | "7048498").PN. OR ("7209351").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 14:31
S809	28	("20020006026" | "20030235042" | "20040130868" | "20050048805" | "20050219833" | "20060206647" | "20060223343" | "20060280196" | "20070121306" | "20070242423" | "20080037218" | "5751549" |	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 14:43

		"6166917" | "6189133" | "6195262" | "6283778" | "6762939" | "6906914" | "6910267" | "6935868" | "6983385" | "7042734" | "7062578" | "7167380" | "7209351" | "7486526").PN. OR ("8164906").URPN.				
S810	28	("20020006026" | "20030235042" | "20040130868" | "20050048805" | "20050219833" | "20060206647" | "20060223343" | "20060280196" | "20070121306" | "20070242423" | "20080037218" | "5751549" | "6166917" | "6189133" | "6195262" | "6283778" | "6762939" | "6906914" | "6910267" | "6935868" | "6983385" | "7042734" | "7062578" | "7167380" | "7209351" | "7486526").PN. OR ("8164906").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 14:46
S811	2	"20080037218"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 14:51
S812	114	("20030130969" | "20030152074" | "20030182483" | "20040073834" | "20040264145" | "20050141207" | "20050280986" | "20050281014" | "20060002098" | "20060023384" | "20060036793" | "20060044756" | "20060114923" | "20060221559" | "20060221581" | "20070038732" | "20070121306" | "20070217172" | "20070255430" | "20080062667" | "20090097200" | "3868158" | "3874444" | "4126269" | "4187058" | "4453785" | "5031070" | "5136464" | "5268637" | "5409419" | "5412534" | "5528454" | "5557506" | "5680294" | "5751549" | "5949646" | "5982634" | "6166917" | "6181570" | "6253266" | "6320760" | "6370605" | "6456498" | "6466449" | "6496376" | "6504717" | "6522539" | "6661673" | "6693901" | "6694392" | "6704196" | "6708372" | "6795314" | "6805560" | "6900387" | "6934786" | "6935868" | "6944020" | "6968958" | "6985967" | "7013352" | "7083422" | "7099160" | "7101188" | "7120739" | "7159062" | "7172432" | "7200003" | "7239509" | "7259961" | "7293090" | "7324348" | "7370223" | "7388757" | "7509375" | "7516263" | "7603580").PN. OR ("7821790").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/31 14:55
S813	4	"20150220109"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/09 17:13
S814	1	("20160352149").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/10 13:18
S815	1	"8333355".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/10 15:36

S816	3	("20060238967" | "7438269" | "8333355").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/10 15:46
S817	4	("20150268697" | "20150049428" | "20150378397" | "9321679").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 01:46
S818	45	"20180364759" "10545537" "20170047351" "10599321" "20190165332" "20180160552" "20190101784" "20170373281" "20190143638" "20180062093" "9865844" "10431754" "20200029423" "20190273212" "20170038641" "20190036048" "10476013" "10462896" "20120262660" "20150310776" "10529947" "20200052231" "9864409" "20170033311" "20170155087" "20160183399" "10135024" "9295168"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 01:47
S819	28	(("20180364759") or ("10545537") or ("20170047351") or ("10599321") or ("20190165332") or ("20180160552") or ("20190101784") or ("20170373281") or ("20190143638") or ("20180062093") or ("9865844") or ("10431754") or ("20200029423") or ("20190273212") or ("20170038641") or ("20190036048") or ("10476013") or ("10462896") or ("20120262660") or ("20150310776") or ("10529947") or ("20200052231") or ("9864409") or ("20170033311") or ("20170155087") or ("20160183399") or ("10135024") or ("9295168")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 01:47
S820	3,387	361/679.21-679.3, "679.55", "679"."."56".CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 01:57
S821	7,822	361/679.21-679.3,679.55,679.56.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 01:57
S822	33,611	G06F1/1652,1616,16,1601,1626.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 01:57
S823	67	((("AHN") near3 ("Sung-Ho")) OR (("WOO") near3 ("Sung-Gwan")) OR (("KWAK") near3 ("Ki-Ju"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	OFF	2020/04/13 01:57

			DERWENT			
S824	2	"20090247237"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 02:21
S825	2	("20020056142" | "20060046792").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 02:25
S826	7	("20060087835" | "20080316115" | "5383098" | "6171138" | "6219230" | "6842633" | "9001047").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 02:25
S827	7	("20020022979" | "20030160754" | "20070120878" | "6160701" | "6796625" | "6835923" | "7688315").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 02:25
S828	7	("20020082079" | "20020132521" | "20080037771" | "20080261109" | "20090033562" | "7292290" | "8060168").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 02:26
S829	23	S825 S826 S827 S828	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 02:26
S830	4	S829 AND GLASS	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 02:26
S831	1	("20130134274").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 02:46
S832	0	"2015212725"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 02:48
S833	1	"20150212725"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 02:48
S834	16	("20030038567" | "20130329394" | "6612668" | "8817457" | "9128664" | "20090154094" | "6829140" | "20100067201" | "20100174993" | "20040056843" | "20130308263" | "20120106078" | "20060264118" | "6845005" | "8837131" | "20080271288" | "20130308263").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 02:51

S835	58	(("20150124389") or ("20140029187") or ("8891231") or ("9519309") or ("20170139439") or ("10599179") or ("20140184904") or ("9253379") or ("20180113493") or ("10040153") or ("20150125227") or ("9995070") or ("20180058120") or ("20170101256") or ("9465413") or ("10167134") or ("20140160653") or ("20190100375") or ("9785197") or ("8749965") or ("20150127135") or ("8619415") or ("20180046225") or ("8995125") or ("10407957") or ("20050128676") or ("7433181") or ("10108223") or ("8971026") or ("20140016257") or ("10067537") or ("20150153769") or ("20140043744") or ("20150169007") or ("20170305638") or ("10526130") or ("20150362957") or ("9348372") or ("20100193397") or ("10185354") or ("20190093402") or ("20180074545") or ("9372513") or ("9423895") or ("20130321288") or ("20190317574") or ("20050122671") or ("20090181733") or ("20100326999") or ("20200019217") or ("20190317578") or ("20190317576") or ("10579113") or ("20190317572") or ("10401926") or ("10000954") or ("10041282") or ("20160130849")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 02:57
S836	2	"20140160653"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 02:59
S837	36	("1468566" | "20020110238" | "20030213683" | "20040080899" | "20050068719" | "20050174338" | "20090195507" | "20100321872" | "20110260978" | "20120012448" | "20120068933" | "20120295236" | "20130222254" | "5490037" | "5543787" | "5598469" | "5610602" | "5625532" | "5768093" | "5774384" | "5808861" | "6056457" | "6064564" | "6314274" | "6604877" | "6729783" | "6940490" | "7149079" | "7182533" | "7741570" | "8092107" | "8100594" | "8162552" | "8238084" | "8699214").PN. OR ("9465413").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:00
S838	1	"20130308263"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:02
S839	3	("2013/0308263").URPN.	USPAT	OR	OFF	2020/04/13 03:02
S840	2	("6154359" | "6612668").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:03

S841	2	"20120106078"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:06
S842	77	("0676449" | "20010040559" | "20020159226" | "20030112585" | "20030112590" | "20030198008" | "20040114315" | "20040159762" | "20040160735" | "20040169995" | "20040195305" | "20040212954" | "20040232302" | "20050052831" | "20050122671" | "20050155182" | "20050168925" | "20050200608" | "20050236869" | "20060007645" | "20060044288" | "20060256511" | "20060264243" | "20070091553" | "20070097087" | "20070203963" | "20080084396" | "20080225471" | "20090000062" | "20090056073" | "20100172081" | "20100195279" | "20110199727" | "20110222238" | "20110267757" | "20120106060" | "20120106061" | "20120106062" | "20120106078" | "4259568" | "5375076" | "5383138" | "5594619" | "5666694" | "5737183" | "5847698" | "5987704" | "6219230" | "6253419" | "6304433" | "6493216" | "6498718" | "6771494" | "7042712" | "7318521" | "7484271" | "7502225" | "7540675" | "7730587" | "8139357" | "D611045" | "D620001" | "D637596" | "D652831" | "D659139").PN. OR ("8467179").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:06
S843	1	"20030112590"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:08
S844	73	("20030231466" | "20050213302" | "20060192070" | "20060243878" | "20070258206" | "20080174947" | "20080192424" | "20080251680" | "20080265109" | "20090178938" | "20090179131" | "20090179132" | "5141196" | "5375800" | "5503361" | "5552960" | "5633782" | "5818690" | "5831823" | "6016248" | "6076787" | "6098952" | "6239971" | "6256193" | "6279861" | "6437978" | "6474614" | "6498719" | "6527241" | "6529377" | "6568650" | "6654237" | "6682040" | "6825415" | "7001088" | "7035100" | "7161799" | "7173819" | "7207540" | "7280355" | "7324340" | "7417853" | "7532463" | "7784752" | "D513008").PN. OR ("8139357").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:09
S845	264	("4617640" | "4883376" | "4903221" | "5100098" | "5103376" | "5200913" | "5224060" | "5255214").PN. OR ("5375076").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:16
S846	12	("20040264118" | "20110002096" | "20140160654" | "5375076" | "6301098" | "6612668" | "7136282" | "7948753" | "8264599" | "8284549" | "8792947" | "8941979").PN. OR ("9535464").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:17

S847	20	("20100165553" | "4951241" | "5235495" | "5293300" | "5351508" | "5375076" | "5642258" | "5721668" | "7206198" | "7342778" | "7492581" | "7576981" | "7612998").PN. OR ("7948753").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:20
S848	21	("20100118481" | "20110164377" | "5901035" | "6097592" | "6473296" | "6961240" | "7679905" | "7821786" | "7855883" | "7948753").PN. OR ("8320123").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:22
S849	2	"20100118481"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:28
S850	7	("20100122432" | "20100127137" | "7117009" | "7495898").PN. OR ("7813122").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:28
S851	26	("5347424" | "5469327" | "5737183" | "5828552" | "6053589" | "6097592" | "6097595" | "6181554" | "6282084" | "6414842" | "6473296").PN. OR ("6961240").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:33
S852	26	("4984706" | "6175488" | "6233138" | "6262885" | "6310768").PN. OR ("6473296").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:34
S853	1,415	g06f1/166.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:41
S854	0	S853 and (USB near3 hing$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:42
S855	318	S853 and usb	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:42
S856	80	S855 and antenna	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:42
S857	85	S855 and antenna$1	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:42
S858	54	S857 and hing$3	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:43

S859	2,469	g06f1/1662.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:43
S860	11,447	g06f1/1616.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:43
S861	4,698	g06f1/1637.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:43
S862	0	S859 and (USB near3 hing$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:43
S863	4	S860 and (USB near3 hing$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:43
S864	1	S861 and (USB near3 hing$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:43
S865	4	S863 S864	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:43
S866	16	("20030038567" | "20130329394" | "6612668" | "8817457" | "9128664" | "20090154094" | "6829140" | "20100067201" | "20100174993" | "20040056843" | "20130308263" | "20120106078" | "20060264118" | "6845005" | "8837131" | "20080271288" | "20130308263").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:48
S867	30	("8823652" | "20120026095" | "D694748" | "20060112517" | "6519139" | "20120030930" | "5548478" | "6091600" | "6816365" | "7694390" | "20020126446" | "6067224" | "20050041378" | "7393115" | "7743999" | "D488807" | "20090237878" | "20120176741" | "D425874" | "D631472" | "20080273297" | "D516552" | "20100190516" | "D615539" | "20140029187" | "6785128" | "8081438" | "8891231" | "D616883" | "20080285216").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:48
S868	14	("5548478" | "8081438" | "D615539" | "D616883" | "20050041378" | "20120176741" | "6785128" | "D631472" | "7393115" | "6091600" | "6816365" | "20120030930" | "D425874" | "20100190516" | "6785128").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:49

S869	46	S866 S867 S868	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:49
S870	0	S869 and (USB near3 hing$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:50
S871	40	(laptop or (lap near top) or (portable near computer) or (notebook near computer)) and (USB near3 hing$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:51
S872	26	(laptop or (lap near top) or (portable near computer) or (notebook near computer)) and (USB near2 hing$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:51
S873	14	S871 not S872	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:54
S874	64	(laptop or (lap near top) or (portable near computer) or (notebook near computer)) and (USB near4 hing$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:56
S875	24	S874 not S871	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 03:56
S876	7	(("20120106078") or ("5375076") or ("8320123") or ("20100118481") or ("8391000") or ("6961240") or ("6473296")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 04:01
S878	7	(("20120106078") or ("5375076") or ("8320123") or ("20100118481") or ("8391000") or ("6961240") or ("6473296")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 04:18
S879	1	S878 and antenna$1	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 04:18
S880	5	("20100103614" | "20130106265" | "20140202678" | "20160366792" | "20170049009").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 04:45
S881	33,611	g06f1/1652,1616,16,1601,1626.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 10:28

S882	7,822	361/679.21-679.3,679.55,679.56.cds.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 10:29
S883	67	((("AHN") near3 ("Sung-Ho")) OR (("WOO") near3 ("Sung-Gwan")) OR (("KWAK") near3 ("Ki-Ju"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/04/13 10:37
S884	6	(("9874908") or ("8988876") or ("20170069299") or ("20100321275") or ("7991442") or ("20160187935")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 10:48
S885	418	((("QUINN") near3 ("Liam")) OR (("ROBINETTE") near3 ("Christopher")) OR (("KNOPPERT") near3 ("Michiel"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/04/13 11:01
S886	16	(("20200042048") or ("20200042045") or ("10254803") or ("10082838") or ("20190033925") or ("10429903") or ("10120421") or ("20190018459") or ("20180253124") or ("10101774") or ("7239504") or ("10296053") or ("20070201199") or ("10503215") or ("7602606") or ("20070201200")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 11:02
S887	33	(("20200042048") or ("20190227598") or ("20190166703") or ("20190018459") or ("10120421") or ("10429903") or ("20190033925") or ("10082838") or ("9348450") or ("20120149438") or ("20110050541") or ("20180275725") or ("20180324964") or ("10274997") or ("9848502") or ("10290240") or ("20170347466") or ("8374658") or ("20110263304") or ("20190380218") or ("10433438") or ("20180077810") or ("20180270971") or ("9992888") or ("20190212786") or ("20200015370") or ("9400523") or ("20150346770") or ("20130163158") or ("20130169564") or ("9069457") or ("10274996") or ("20180210512")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 11:03
S888	27	S887 NOT S886	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 11:04

S889	0	S888 and (hing$4 near2 sensor$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 12:04
S890	10	S886 and (hing$4 near2 sensor$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 12:04
S891	6	S887 and (hing$4 near2 sensor$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 12:04
S892	13	(("20200042048") or ("20200042045") or ("10254803") or ("10296053") or ("10503215") or ("20200064892") or ("10592051") or ("20200042047") or ("20200042046") or ("10296052") or ("10503207") or ("20180253124") or ("10101774")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 12:06
S893	4,492	g06f1/1652.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 12:07
S894	83	S893 and (hing$4 near2 sensor$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 12:08
S895	64	S894 and (UI or (user near interface))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 12:08
S896	2	"20170102738"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 12:32
S897	2,334	h05k7/14,16,17,1427.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 13:02
S898	8,126	G02F1/133308.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 13:03
S899	0	"679"".21-679.""3,679"".""55,679"".""56,679"".""01,679".S882.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 13:03

S900	14,398	361/679.21-679.3,679.55,679.56,679.01,679.02.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 13:04
S901	193	((("IN") near3 ("Woo") near3 ("Sung")) OR (("PARK") near3 ("Doo") near3 ("Soon")) OR (("LEE") near3 ("Woong") near3 ("Hee")) OR (("LEE") near3 ("Jeong") near3 ("Roh")) OR (("JUNG") near3 ("Sung") near3 ("Soo"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/04/13 13:24
S902	193	((("IN") near3 ("Woo") near3 ("Sung")) OR (("PARK") near3 ("Doo") near3 ("Soon")) OR (("LEE") near3 ("Woong") near3 ("Hee")) OR (("LEE") near3 ("Jeong") near3 ("Roh")) OR (("JUNG") near3 ("Sung") near3 ("Soo"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/04/13 13:25
S903	136	(("20130170115") or ("9398711") or ("20160291392") or ("10539817") or ("20190056606") or ("10151938") or ("20190155061") or ("20130170116") or ("20190361287") or ("20170192289") or ("20190094603") or ("10437090") or ("20180113353") or ("10261353") or ("9690129") or ("20170192290") or ("20140139771") or ("10338423") or ("10534230") or ("20190018274") or ("20160179257") or ("20170248815") or ("9804430") or ("20150168767") or ("20190377447") or ("20120262855") or ("20120262907") or ("8876358") or ("20150237746") or ("20180210279") or ("20160062034") or ("10424749") or ("10201101") or ("9033533") or ("20180351117") or ("20160181346") or ("10268065") or ("20170131587") or ("20190113797") or ("9780157") or ("10168562") or ("20190317629") or ("20130293804") or ("8970805") or ("20190204867") or ("10108036") or ("20160270269") or ("9999152") or ("20160095205") or ("20170118859") or ("20170301878") or ("20180031898") or ("9699943") or ("10036909") or ("20170344053") or ("10283736") or ("20160093685") or ("20170237027") or ("20170194411") or ("20160190522") or ("9287329") or ("20190018275") or ("20180062094") or ("10038154") or ("9673423") or ("9425418") or ("20160336523") or ("20120327325") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 13:26

		("10133101") or ("8717513") or ("20180139838") or ("20190132963") or ("10411205") or ("20170184910") or ("10206276") or ("10527877") or ("10582621") or ("9442585") or ("9812659") or ("20160306480") or ("20180263124") or ("20170181295") or ("20110310543") or ("20170289324") or ("20180219165") or ("20160268546") or ("10101837") or ("8736801") or ("9980397") or ("20160183399") or ("10418572") or ("20180090713") or ("20130170156") or ("9847506") or ("20160172623") or ("20180188849") or ("9793334") or ("9661764") or ("10171636") or ("9379355") or ("20120281383") or ("20180173036") or ("10551656") or ("20190325188") or ("10505147") or ("20060077544") or ("20190137820") or ("20140043560") or ("20180356672") or ("10578917") or ("9618781") or ("10222649") or ("9784907") or ("8792252") or ("20180149922") or ("20160374191") or ("20170278899") or ("20160103649") or ("20160018589") or ("10488689") or ("9894755") or ("20150156897") or ("20160172428") or ("20190214435") or ("10347700") or ("10133531") or ("20160240602") or ("20190102136")).PN. or (("20160093644") or ("8851695") or ("20170323934") or ("20160363804") or ("20180283676") or ("9748322") or ("20170179423") or ("10012377")).PN.				
S904	115	"20150124389" "20140029187" "8891231" "9519309" "20170139439" "10599179" "20140184904" "9253379" "20180113493" "10040153" "20150125227" "9995070" "20180058120" "20170101256" "9465413" "10167134" "20140160653" "20190100375" "9785197" "8749965" "20150127135" "8619415" "20180046225" "8995125" "10407957" "20050128676" "7433181" "10108223" "8971026" "20140016257" "10067537" "20150153769" "20140043744" "20150169007" "20170305638" "10526130" "20150362957" "9348372" "20100193397" "10185354" "20190093402" "20180074545" "9372513" "9423895" "20130321288" "20190317574" "20050122671" "20090181733" "20100326999" "20200019217" "20190317578" "20190317576" "10579113" "20190317572" "10401926" "10000954" "10041282" "20160130849"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 13:34
S905	58	(("20150124389") or ("20140029187") or ("8891231") or ("9519309") or ("20170139439") or ("10599179") or ("20140184904") or ("9253379") or ("20180113493") or ("10040153") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 13:34

		("20150125227") or ("9995070") or ("20180058120") or ("20170101256") or ("9465413") or ("10167134") or ("20140160653") or ("20190100375") or ("9785197") or ("8749965") or ("20150127135") or ("8619415") or ("20180046225") or ("8995125") or ("10407957") or ("20050128676") or ("7433181") or ("10108223") or ("8971026") or ("20140016257") or ("10067537") or ("20150153769") or ("20140043744") or ("20150169007") or ("20170305638") or ("10526130") or ("20150362957") or ("9348372") or ("20100193397") or ("10185354") or ("20190093402") or ("20180074545") or ("9372513") or ("9423895") or ("20130321288") or ("20190317574") or ("20050122671") or ("20090181733") or ("20100326999") or ("20200019217") or ("20190317578") or ("20190317576") or ("10579113") or ("20190317572") or ("10401926") or ("10000954") or ("10041282") or ("20160130849")).PN.				
S906	71	((("OKULEY") near3 ("James")) OR (("JENSEN") near3 ("Kimi"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/04/13 13:37
S907	2	(("6961240") or ("6473296")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 13:39
S908	21,033	g06f1/1664,1667,1616,1637,166,1662,1681,169.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 13:40
S909	7,822	361/679.21-679.3,679.55,679.56.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 13:40
S910	2	"20130106265"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 14:25
S911	2	"20100103614"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 14:26

S912	4	S910 S911	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/13 14:26
S916	2	(("20090009945") or ("20160003270") or ("201380942087")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/14 11:03
S917	2	(("20090009945") or ("20160003270") or ("20130942087")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/14 11:04
S918	3	(("20090009945") or ("20160003270") or ("20130342087")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/14 11:06
S919	5	("20070119693" | "20110267285" | "20120092263" | "20150192960" | "20160049266").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/14 13:01
S920	2	"20130010405"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/17 19:08
S921	1	"20140132854"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/17 19:08
S922	3	S920 S921	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/17 19:08
S923	7	("20100046155" | "20120039058" | "20140218855" | "5400213" | "5430608" | "5444601" | "5448446").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 02:19
S924	2	"20120039058"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 02:24
S925	9	("20070293005" | "20090267266" | "20090278282" | "20090315788" | "20090323266" | "20100067205" | "20100073897" | "7630199").PN. OR ("8675373").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 02:25
S926	5	S925 and screw$1	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 02:27

S927	5	S925 and screw$3	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 02:27
S928	2	"20070293005"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 02:34
S929	10	("20060045495" | "5174520" | "7019225").PN. OR ("7630199").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 02:34
S930	8	S929 and screw$3	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 02:35
S931	1	"6352302".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 02:47
S932	1	"6302352".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 02:47
S933	37,155	white.inv.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 02:47
S934	309	S933 and rugged	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 02:48
S935	381	S933 and rugged$4	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 02:48
S936	49	S933 and ruggedized	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 02:48
S937	598	("5002368" | "5150231" | "5228013" | "5299038" | "5363227" | "5479285" | "5486942" | "5550712" | "5568357" | "5583529" | "5583681" | "5606438" | "5659376" | "5710607" | "5808707" | "5831816" | "5844772" | "5870160" | "5905550" | "5946062" | "6052279" | "6055029" | "6061231" | "6151207" | "6172732").PN. OR ("6532152").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 02:50

S938	0	S937 and (metal$1 and rein$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 02:51
S939	76	S937 and (metal$1 and resin$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 02:51
S940	2	"20120039058"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 03:00
S941	2	"20070293005"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 03:00
S942	4	S940 S941	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 03:00
S943	1	("20070095471").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 03:16
S944	10	("20030116843" | "5432677" | "6538210" | "20030060172" | "7217888" | "20050017347" | "20060021791" | "6239980" | "5306670" | "20050048759").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 03:20
S945	1,755	h05k7/20254,20436,20263.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 03:23
S946	613	h05k7/20436.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 03:23
S947	230	S946 and liquid	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 03:23
S948	2	S947 and (blind near hole$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 03:24
S949	154	S947 and (fin$1 or protrusion$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 03:25

S950	2	"20150342092"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 03:33
S951	25	("20050133210" | "20060231236" | "20070263361" | "20090114372" | "20100136404" | "20110067841" | "20120201036" | "20120305283" | "20130044434" | "20140090809" | "20140091453" | "3524497" | "4872089" | "5400854" | "6039114" | "6144092" | "6283778" | "6508301" | "6882041" | "7149086" | "7173823" | "7855888" | "7977821" | "8081462").PN. OR ("10178805").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 03:34
S952	50	("3524497" | "4151548" | "4450472" | "4467860" | "4541004" | "4884630" | "5239200").PN. OR ("6039114").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 03:43
S953	1	"20190361503"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 11:02
S954	176	(("20190361503") or ("20190074615") or ("10418070") or ("20120257342") or ("20120329312") or ("8767396") or ("20120081876") or ("8730667") or ("8485842") or ("20160073517") or ("20140368998") or ("20050115732") or ("20150029337") or ("9351422") or ("8929058") or ("9674410") or ("20060030213") or ("20080174714") or ("20160141701") or ("7565984") or ("20190141279") or ("20140146452") or ("20100226082") or ("7104810") or ("7724318") or ("9905879") or ("20130003267") or ("8125773") or ("20200106321") or ("20110089831") or ("20150364840") or ("20150216083") or ("20110151707") or ("20180014418") or ("20150128687") or ("8047688") or ("9414508") or ("10244645") or ("20120044684") or ("20120039058") or ("9407017") or ("20170077587") or ("10136555") or ("10218933") or ("7959470") or ("20140152177") or ("9835523") or ("20070186788") or ("8439527") or ("20180339717") or ("20060030173") or ("8675373") or ("20160066450") or ("20170352495") or ("9137478") or ("10186748") or ("20160345448") or ("20160242290") or ("20080186692") or ("20130021532") or ("20110285926") or ("9699919") or ("7074053") or ("20180106449") or ("20190380226") or ("8981636") or ("7965517") or ("20120184152") or ("20180213658") or ("20140103794") or ("20080318447") or ("20050185386") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 11:03

		("9091398") or ("20070101347") or ("20040050572") or ("20180040352") or ("20150125724") or ("20180192526") or ("20190228807") or ("10251285") or ("20120204199") or ("7805737") or ("20130135972") or ("9412981") or ("7535721") or ("9886985") or ("20110250801") or ("20130100596") or ("20190299387") or ("20150034039") or ("20180239733") or ("20120052747") or ("20050202702") or ("20050215099") or ("20110267551") or ("20010019377") or ("20180343737") or ("10417163") or ("20170343030") or ("8819710") or ("8517753") or ("10225927") or ("20180342833") or ("10244642") or ("10410682") or ("9222424") or ("20180003299") or ("6741299") or ("8698964") or ("20040212756") or ("8182278") or ("7027111") or ("20140071640") or ("20140227908") or ("9175620") or ("7651345") or ("9084340") or ("6989490") or ("10520003") or ("7208681") or ("20050191886") or ("8272891") or ("6833504") or ("20190115051") or ("20040212755") or ("9197002") or ("10355400") or ("20060164567") or ("20150380180") or ("6972373")).PN. or (("20050186818") or ("20030188883") or ("7012193") or ("10487941") or ("10443721") or ("6903273") or ("20120052734") or ("20050217884") or ("20150048193") or ("20120322516") or ("9924607") or ("20150129401") or ("20180106944") or ("20190300262") or ("7154571") or ("10271419") or ("20180035530") or ("20060125974") or ("20150305181") or ("20110096524") or ("7002645") or ("8272887") or ("9760120") or ("20150264829") or ("20090065232") or ("20130322049") or ("9412529") or ("8982547") or ("20180087993") or ("20150340058") or ("6002437") or ("20110103033") or ("20110216487") or ("20170072533") or ("20120322319") or ("20110069444") or ("9363988") or ("20160088759") or ("20120184125") or ("7142266") or ("20180316123") or ("8422247") or ("6984786") or ("20180006524") or ("20060005985") or ("20090014194")).PN.				
S955	1,663	((("KURIYAMA") near3 ("Futoshi")) OR (("YONEZAWA") near3 ("Ryo")) OR (("MORI") near3 ("Takeshi")) OR (("URIMOTO") near3 ("Tetsuya"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	OFF	2020/04/27 11:04

			DERWENT			
S956	7,697	G06F1/1654,1679,1681.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 11:05
S957	5,878	H05K5/0017,0086,0226.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 11:05
S958	1	"10627858".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 11:14
S959	22,320	G06F1/1656,1637,1616,1662,1613,1633.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 12:19
S960	1,027	H05K5/04,00173.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 12:19
S961	5,132	H05K5/04,0017.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 12:19
S962	1,027	H05K5/04.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 12:19
S963	205	((("LIN") near3 ("San-Feng")) OR (("CHEN") near3 ("Yen-Yu"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/04/27 12:20
S964	72	((("SULLIVAN") near3 ("Jason"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/04/27 12:20

S965	73	((("KIM") near3 ("Hoyoung")) OR (("KIM") near3 ("Kyeongdong")) OR (("KIM") near3 ("Byunghee"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/04/27 12:20
S966	3,832	((("WANG") near3 ("Erik")) OR (("HOBSON") near3 ("Phillip")) OR (("JENKS") near3 ("Kenneth")) OR (("MITTLEMAN") near3 ("Adam")) OR (("ANDRE") near3 ("Bartley")) OR (("COSTER") near3 ("Daniel")) OR (("DE") near3 ("IULIIS") near3 ("Daniele")) OR (("HOWARTH") near3 ("Richard")) OR (("IVE") near3 ("Jonathan")) OR (("JOBS") near3 ("Steven")) OR (("KERR") near3 ("Duncan")) OR (("NISHIBORI") near3 ("Shin")) OR (("ROHRBACH") near3 ("Matthew")) OR (("SATZGER") near3 ("Douglas")) OR (("SEID") near3 ("Calvin")) OR (("STRINGER") near3 ("Christopher")) OR (("WHANG") near3 ("Eugene")) OR (("ZORKENDORFER") near3 ("Rico"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/04/27 12:21
S967	1	"20180239395"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 12:22
S968	613	(("20180239395") or ("20160204530") or ("9825381") or ("20150087163") or ("9093766") or ("20180341296") or ("20130078831") or ("20090321128") or ("8083545") or ("7142265") or ("20040246399") or ("20150244111") or ("20160261056") or ("9601876") or ("9451699") or ("20140029216") or ("20140017542") or ("7597580") or ("9917405") or ("20090279238") or ("8020969") or ("20080316275") or ("8027156") or ("20100225705") or ("20080084674") or ("7832840") or ("6537083") or ("20080291246") or ("20170346238") or ("20170346237") or ("8091982") or ("20080246811") or ("20140204524") or ("20130029071") or ("20080186357") or ("9972946") or ("7726779") or ("20190287892") or ("9585272") or ("8409678") or ("10381784") or ("20150220115") or ("20190117926") or ("20190044452") or ("20140017541") or ("20090005132") or ("20060061008") or ("20150207906") or ("20160233620") or ("8989823") or ("20130286295") or ("9374445") or ("20170075440") or ("20190283673") or ("10466563") or ("20160192517") or ("9270923") or ("9104066") or ("20170205679") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 12:23

		("20200064704") or ("10556542") or ("9703401") or ("10168743") or ("20090268120") or ("8186741") or ("20130250205") or ("20100213736") or ("7942678") or ("9698540") or ("20170302035") or ("20140017521") or ("20110028041") or ("8558962") or ("20110187958") or ("9287591") or ("20190092238") or ("20170232899") or ("20140313563") or ("10308180") or ("10320125") or ("9274373") or ("20160164147") or ("9174578") or ("20140267732") or ("20100309619") or ("20190092240") or ("20110058117") or ("20160187714") or ("7301776") or ("20150329050") or ("20190074677") or ("9730370") or ("8629953") or ("8976247") or ("7524021") or ("8896700") or ("10124732") or ("20150077565") or ("20070146397") or ("20070070119") or ("20160375830") or ("20180351273") or ("20060238569") or ("20050095922") or ("7517049") or ("9796331") or ("6913493") or ("9637055") or ("20170346236") or ("20140342599") or ("20160059782") or ("20160192515") or ("20090195611") or ("20100026149") or ("10320170") or ("20080252699") or ("9440586") or ("7404621") or ("7108353") or ("8066352") or ("20190071018") or ("20050157050") or ("20050157055") or ("7758164") or ("7156489") or ("10589684") or ("20180056871") or ("20060238779") or ("5122069") or ("10144353")).PN. or (("20190227406") or ("20190227199") or ("10630008") or ("20150116810") or ("20190227200") or ("7429095") or ("20080100668") or ("7645005") or ("20180156493") or ("8628340") or ("20080297565") or ("7901043") or ("20020166299") or ("20200032571") or ("20070257964") or ("20150179072") or ("20080043060") or ("9183749") or ("9090212") or ("20140112015") or ("7556349") or ("20100091069") or ("20150189785") or ("8323758") or ("8371678") or ("7404623") or ("20140327951") or ("20120236388") or ("7104629") or ("20090002443") or ("8922867") or ("9301385") or ("20050157043") or ("9282673") or ("20120078469") or ("20190230262") or ("20050198840") or ("20160154171") or ("20080246812") or ("8100509") or ("20190227258") or ("7690122") or ("20050157045") or ("20100277546") or ("8376520") or ("8550597") or ("20050157073") or ("7080894") or ("20100277547") or ("7090336") or ("20160306394") or ("8730553") or ("20100285694") or ("20080246809") or				

		("20050157079") or ("20130078870") or ("7798605") or ("20140118968") or ("8743203") or ("20080246808") or ("20200032572") or ("20130029083") or ("7198355") or ("7219980") or ("20180160480") or ("8118400") or ("10122129") or ("9209573") or ("7322672") or ("8057024") or ("20090195610") or ("20060250493") or ("20090148638") or ("7328972") or ("20190227257") or ("20050023022") or ("20110136384") or ("20050157044") or ("7984969") or ("20090122102") or ("20050157087") or ("20090051743") or ("7712868") or ("20050157004") or ("20090051744") or ("7152959") or ("6540558") or ("20070263035") or ("20070188550") or ("7648226") or ("7467849") or ("8043107") or ("20190168672") or ("20080088670") or ("20050157071") or ("6410184") or ("20110317386") or ("7222938") or ("20060238560") or ("7213906") or ("7461919") or ("20170194721") or ("20110294348") or ("20020144032") or ("7992966") or ("20150062825") or ("20050157057") or ("7012189") or ("20050157056") or ("8206177") or ("20080079774") or ("20070046728") or ("20130321940") or ("20190227259") or ("20080088671") or ("7306324") or ("8976439") or ("7841696") or ("20190304511") or ("7461920") or ("7753483") or ("20130201718") or ("20050157060") or ("20100326997") or ("7201469") or ("20060274123") or ("20170179622") or ("20190123476") or ("7178901") or ("7322673")).PN. or (("20130164990") or ("7255423") or ("20080089020") or ("20110096524") or ("20070109355") or ("20080211885") or ("7083257") or ("7438388") or ("7591533") or ("20070193042") or ("7258422") or ("10411394") or ("7310872") or ("20160233629") or ("9385059") or ("20060250492") or ("20050157058") or ("20180034189") or ("7517231") or ("20050157054") or ("20050157048") or ("20050157076") or ("20160243987") or ("20170313251") or ("7303261") or ("6945709") or ("20160068108") or ("8746951") or ("20190227201") or ("20110296691") or ("20190228562") or ("10112538") or ("20050157072") or ("20080068428") or ("8123560") or ("9193077") or ("7918535") or ("9878669") or ("20190227337") or ("20060227172") or ("7322676") or ("7118192") or ("20130014358") or ("20100097426") or ("9525251") or ("20180147991") or				

		("20090244185") or ("20050247759") or ("9401568") or ("7757929") or ("20050157059") or ("7438385") or ("4984982") or ("7261401") or ("20140349509") or ("20070036490") or ("20130235539") or ("7156508") or ("7370939") or ("7413283") or ("9337579") or ("20100007703") or ("20050157069") or ("20160155043") or ("20050157063") or ("20190227256") or ("20060250458") or ("20100002053") or ("9707895") or ("10128604") or ("7165834") or ("8422247") or ("8079666") or ("7874643") or ("20050157051") or ("10525889") or ("20190230257") or ("20070285479") or ("20050157075") or ("20110109517") or ("20110159735") or ("8282419") or ("20150064966") or ("20150185784") or ("20190373149") or ("20090058923") or ("20110182009") or ("20050157090") or ("9184521") or ("20130164995") or ("20040161209") or ("9633299") or ("7726790") or ("20050157153") or ("20190173209") or ("7083271") or ("20050157064") or ("20100257732") or ("9692147") or ("20100231648") or ("20080284663") or ("20070058007") or ("8305745") or ("8228246") or ("7518880") or ("7399053") or ("7306325") or ("20120270422") or ("9535462") or ("20120038964") or ("8029113") or ("20070153059") or ("7754967") or ("20190162376") or ("20150288106") or ("7901044") or ("7269004") or ("20130314761") or ("8665510") or ("7367649") or ("7956813") or ("10488001") or ("20190356078") or ("8910648") or ("20070153031") or ("7159972") or ("20190252833") or ("7198354") or ("7163408") or ("20140273619") or ("7549727")).PN. or (("20050287868") or ("20100045745") or ("7618121") or ("20180019551") or ("20200018260") or ("20050157074") or ("7614724") or ("4248201") or ("20150307028") or ("20110058324") or ("9059538") or ("20050157078") or ("20090244183") or ("20070064064") or ("4795372") or ("9440589") or ("20050157046") or ("20140327856") or ("8508831") or ("20080266816") or ("20050224569") or ("9438846") or ("20080211869") or ("10498089") or ("20090267992") or ("7401894") or ("7399071") or ("8057004") or ("20140079876") or ("10320126") or ("20190295575") or ("20190230255") or ("20130169891") or ("20120242926") or ("8096639") or ("8007085") or ("20050157052") or ("10446177") or ("7416274") or ("20190227300") or				

		("7210968") or ("20170093094") or ("20170012593") or ("7077504") or ("20050157070") or ("20070058008") or ("20200033626") or ("20140241875") or ("9565785") or ("20200076132") or ("20160361676") or ("7414196") or ("20170094776") or ("20080285216") or ("7556360") or ("6612708") or ("10117347") or ("20180176346") or ("7869218") or ("20160069071") or ("6310738") or ("20070121128") or ("10432834") or ("RE47419") or ("9801286") or ("20160359256") or ("6083047") or ("20180213131") or ("20200033553") or ("7733636") or ("7568786") or ("9242465") or ("20030011909") or ("5749746") or ("7717743") or ("8435078") or ("20100073594") or ("10320961") or ("20020012181") or ("20080166907") or ("20150147166") or ("6447130") or ("20150224769") or ("8786799") or ("20080002354") or ("20180239054") or ("9540808") or ("10205429") or ("20090325419") or ("20010010601") or ("20090142960") or ("7798831") or ("20130014794") or ("20040012868") or ("20180205171") or ("20140248791") or ("20190230256") or ("20140355210") or ("20060279911") or ("20120058687") or ("9728901") or ("6755544") or ("20180302116") or ("20080038877") or ("20060221126") or ("20140153177") or ("6213612") or ("10038268") or ("10595451") or ("20140305894") or ("9435351") or ("10348041") or ("10527750") or ("20190227253") or ("20150329063") or ("8277059") or ("20120224321") or ("20180145463") or ("7455392") or ("20160164217") or ("10381767") or ("20190288461") or ("20150022914") or ("20190090367") or ("20190207178") or ("20160204556") or ("8982546") or ("8179672") or ("4940429") or ("10591957")).PN. or (("20160375846") or ("20190160462") or ("20140178093") or ("20130134848") or ("7077505") or ("10179555") or ("20080252774") or ("20160209697") or ("10608385") or ("20190280396") or ("2225958") or ("10547123") or ("20100216338") or ("7364463") or ("20070245649") or ("6417444") or ("6080003") or ("20140308011") or ("20070047240") or ("9557681") or ("9525236") or ("20050157077") or ("20120325794") or ("20090193728") or ("10295861") or ("20130148031") or ("20190230261") or ("9036343") or ("8558141") or ("20060133044") or ("20120228210") or ("9333916") or ("20200021052") or ("9172174") or				

		("8137131") or ("8591256") or ("8192623") or ("6467920") or ("20100252495") or ("20200033552") or ("20190103688") or ("20120229882") or ("20120077365") or ("9465117") or ("9475431") or ("9056584") or ("20150369931") or ("7872685") or ("8641901") or ("20110096427") or ("20140030913") or ("8851690") or ("20060150545") or ("20190227408") or ("10191348") or ("20200033556") or ("20070057472") or ("20110209914") or ("20170261830") or ("20110068743") or ("20080212297") or ("10345672") or ("20110019260") or ("8602830") or ("10046714") or ("20200033558") or ("20080273217") or ("20110240450") or ("20050232641") or ("20190373750") or ("20130088884") or ("8536467") or ("20090191927") or ("7361940") or ("9563024") or ("20170149467") or ("20140017551") or ("20170068143") or ("10355381") or ("20150028732") or ("10566715") or ("9090213") or ("20150029408") or ("10602633") or ("20190346697") or ("20180109044") or ("20200033700") or ("20070190866") or ("7074052") or ("7934817") or ("8961221")).PN.				
S969	28	(("10209941") or ("6943774") or ("20180011674") or ("20190346954") or ("20180164852") or ("8990721") or ("10222835") or ("20110276911") or ("10540073") or ("20020140667") or ("20160216879") or ("20140210740") or ("20100099456") or ("8630681") or ("10331342") or ("20180196596") or ("20170083268") or ("9886848") or ("20090111515") or ("20150364037") or ("8229500") or ("8976516") or ("9952662") or ("10228761") or ("20140292808") or ("9442563") or ("20190018454") or ("8644010")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 12:25
S970	6	(("20190371214") or ("10410549") or ("10534402") or ("20200073444") or ("20160374228") or ("9756757")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 12:26
S971	427	(("20190027808") or ("10476136") or ("20180090816") or ("10205224") or ("20190173160") or ("20190214708") or ("20190267718") or ("10476170") or ("20170110787") or ("20200127697") or ("20180279028") or ("10536761") or ("10015573") or ("20170078777") or ("20090245565") or ("20190312347") or ("8055003") or ("20120045081") or ("20140105440") or ("8488817") or ("20170125889") or ("10355344") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 12:26

		("9634378") or ("20190123431") or ("20200021011") or ("10122071") or ("20160056527") or ("20200099138") or ("20190319367") or ("20160315373") or ("10193597") or ("20200021025") or ("20180048058") or ("9577318") or ("20190379134") or ("9497527") or ("10367252") or ("10224602") or ("20190097306") or ("20190393918") or ("10608344") or ("20190173158") or ("20180048057") or ("20160233913") or ("20190260112") or ("10181640") or ("9917934") or ("20190081396") or ("10594351") or ("20160097833") or ("9594147") or ("20200106181") or ("20200106192") or ("20200119439") or ("10164679") or ("9621230") or ("9876272") or ("20150249485") or ("20190081394") or ("20170054196") or ("20200014095") or ("20160093955") or ("20190081393") or ("10581153") or ("20120176754") or ("10418687") or ("8766859") or ("10320069") or ("20180090826") or ("9537219") or ("20190097317") or ("20160308271") or ("9344539") or ("20190020365") or ("20180048052") or ("9768491") or ("20190081410") or ("10297902") or ("20190081386") or ("20190081615") or ("10312571") or ("9667290") or ("10305453") or ("20190081398") or ("20160308563") or ("10084490") or ("20180115053") or ("20170302306") or ("10263335") or ("20180076843") or ("20190165836") or ("20170170857") or ("20190081385") or ("9838059") or ("9806751") or ("10530042") or ("20190089185") or ("20170040668") or ("20200044305") or ("20180069317") or ("20170033460") or ("10200092") or ("20190260126") or ("9972891") or ("9093752") or ("20170311456") or ("20180026341") or ("20170069954") or ("9966667") or ("20140253392") or ("20090257207") or ("10484112") or ("20120178503") or ("10056695") or ("9876273") or ("20190393586") or ("20180248634") or ("20190190123") or ("10249937") or ("8102319") or ("7933123") or ("10630822") or ("20180069297") or ("20180233808") or ("20090256758") or ("20120178382") or ("10608326") or ("8259017")).PN. or (("20120092221") or ("9099771") or ("9972892") or ("10305172") or ("8750949") or ("20140266926") or ("20170309992") or ("9002422") or ("20150270619") or ("20120098720") or ("9397387") or ("20170149127") or ("8410986") or				

		("9730338") or ("8106836") or ("20160072178") or ("20190074586") or ("9559425") or ("8417298") or ("8994597") or ("20090256759") or ("9577315") or ("20180219276") or ("8417296") or ("9203137") or ("20140292591") or ("9653777") or ("20130172045") or ("8766858") or ("20090305742") or ("10199718") or ("20130222195") or ("8818450") or ("20120050114") or ("20090247237") or ("20180198895") or ("10468756") or ("20150214600") or ("20140243052") or ("20160261022") or ("8947303") or ("20120176278") or ("20150249292") or ("20130237289") or ("20120257341") or ("20140233169") or ("20180048053") or ("20120157175") or ("10193216") or ("9325080") or ("20180083344") or ("20110188225") or ("10158384") or ("20160322699") or ("8791864") or ("9843091") or ("9065175") or ("20190007120") or ("20190097314") or ("20160197401") or ("20190372205") or ("9997828") or ("9793616") or ("10511083") or ("10200105") or ("20140139380") or ("8577289") or ("20190027833") or ("20160072539") or ("20160309007") or ("20120214412") or ("20190097301") or ("20140111684") or ("20190317177") or ("20190267709") or ("10476167") or ("9634709") or ("9654164") or ("8159399") or ("20200081492") or ("20140285386") or ("20190027821") or ("10627783") or ("9093745") or ("20190081694") or ("20180342794") or ("20180053990") or ("20090295648") or ("10620591") or ("9048537") or ("10613485") or ("10186769") or ("20200106158") or ("10483620") or ("10367570") or ("20120050975") or ("10020563") or ("20190013570") or ("8638549") or ("9685690") or ("10511084") or ("9356661") or ("20160218414") or ("20120176279") or ("10599101") or ("20170309988") or ("20130300618") or ("10381715") or ("20150311960") or ("10461395") or ("8780581") or ("9431699") or ("8947302") or ("10141626") or ("20200021037") or ("20190089052") or ("10263332") or ("20200106185") or ("20150145734") or ("20130335899") or ("9806401") or ("20200044316") or ("10270174") or ("20190036220") or ("20110291896") or ("8892049") or ("20160028148") or ("20140233170") or ("20090257189") or ("8610629")).PN. or (("20090096683") or ("8947305") or ("8432322") or ("20180069295") or ("8537543") or ("20110012793") or ("20190020121") or ("20130241780") or				

		("10498011") or ("9131037") or ("20140112511") or ("20180069588") or ("8872706") or ("20190027802") or ("8395555") or ("8896488") or ("20110109516") or ("10250289") or ("9318793") or ("20160248148") or ("20190020110") or ("20140049432") or ("8952860") or ("20190027838") or ("20180368065") or ("20200021040") or ("20190257933") or ("20190089053") or ("20120223866") or ("9633247") or ("10103424") or ("20110183721") or ("9882269") or ("20160056526") or ("20120223865") or ("10553945") or ("9680205") or ("10448328") or ("20170309991") or ("20160261023") or ("9356355") or ("20160378070") or ("20160378071") or ("20130231046") or ("9425496") or ("20160378069") or ("8169374") or ("20180062264") or ("9793599") or ("20140086441") or ("8922443") or ("10290946") or ("20160321493") or ("20190020114") or ("20140085161") or ("20170069955") or ("20110133995") or ("9178268") or ("8907852") or ("20180090847") or ("20140009344") or ("10153554") or ("10283844") or ("20160058375") or ("20190324574") or ("9024823") or ("8982002") or ("9893755") or ("20180090817") or ("20200021019") or ("20140292587") or ("9172139") or ("20140111953") or ("9502750") or ("9761927") or ("20180152549") or ("20200021008") or ("20140233168") or ("20120299785") or ("20200021012") or ("20150280771") or ("10171125") or ("9070969") or ("9300342") or ("20180040943") or ("20140315592") or ("20130162485") or ("10333199") or ("20180152220") or ("8952853") or ("20150214602") or ("20120009983") or ("20190356051") or ("9793598") or ("20080316117") or ("20090051604") or ("20160064812") or ("20080316121") or ("7768462") or ("20180248811") or ("9647332") or ("7911387") or ("9728858") or ("20120046002") or ("20140132463") or ("10129165") or ("7876274") or ("20140333490") or ("20110050513") or ("20110133998") or ("8466839") or ("20170346167") or ("8803745") or ("20080316115") or ("8427376") or ("20150311594") or ("20130207851") or ("7889139") or ("7924231") or ("20100007564") or ("10313497") or ("20140009355") or ("7612725") or ("20080316116") or ("9153856") or ("7843396") or ("20110012794") or ("9293816") or ("9748635") or ("8665164")).PN. or (("20100123632") or ("8681056") or ("9531061") or ("20100321325") or				

		("20160064801") or ("8269677") or ("9705180") or ("20140266922") or ("20110050508") or ("20150364813") or ("20130293424") or ("20090247244") or ("10312593") or ("20150303568") or ("9257750") or ("20160211570") or ("20200089287") or ("9331397") or ("20110136447") or ("20130009828") or ("10355339") or ("20140340265") or ("10141631") or ("9236659") or ("20140266941") or ("8270914") or ("8112130") or ("20150270618") or ("9912040") or ("20190252771") or ("10594028") or ("20150311579") or ("20150236426") or ("9379445") or ("10218052") or ("20160336643") or ("9583838") or ("20090040115") or ("8583187")).PN.				
S972	900	(("20180239395") or ("20060061008") or ("20160204530") or ("9825381") or ("20190283673") or ("10556542") or ("10308180") or ("20190092238") or ("20140267732") or ("8896700") or ("20040246399") or ("7142265") or ("8976247") or ("9796331") or ("20160375830") or ("20150077565") or ("9440586") or ("20120078469") or ("20160059782") or ("20150201723") or ("10144353") or ("8743203") or ("20180056871") or ("9183749") or ("20150179072") or ("10548380") or ("20170035170") or ("20190287892") or ("20170232899") or ("20120236388") or ("20190092240") or ("10124732") or ("20150329050") or ("9090212") or ("9104066") or ("20150116810") or ("8922867") or ("9637055") or ("20200032571") or ("20140327951") or ("8730553") or ("20200032572") or ("20110187958") or ("20170194721") or ("10294016") or ("20180237214") or ("20150087163") or ("9093766") or ("20130029071") or ("8915361") or ("20140152890") or ("10005611") or ("20140217862") or ("9469469") or ("20160198824") or ("20170094776") or ("9801286") or ("8409678") or ("20180160480") or ("20150062825") or ("20120183819") or ("20130286295") or ("9385059") or ("8572908") or ("9270923") or ("20060134982") or ("20120276768") or ("20180156493") or ("20110094568") or ("7259969") or ("20160243987") or ("20180147991") or ("9878669") or ("20150243937") or ("20110255850") or ("10525889") or ("8925195") or ("7467849") or ("20140178093") or ("20070188550") or ("20160353616") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 12:28

		("20110255250") or ("20140153177") or ("10589684") or ("8982546") or ("20090268120") or ("20190071018") or ("20140355210") or ("7942678") or ("9557681") or ("20130250205") or ("20090279238") or ("7518880") or ("8995126") or ("20110028041") or ("20100183848") or ("8027156") or ("20110007514") or ("8398262") or ("20100257732") or ("8558962") or ("20140233167") or ("20190117926") or ("8083370") or ("8376520") or ("20120140459") or ("20100277547") or ("20100238655") or ("20140017542") or ("10168743") or ("9073491") or ("20110230074") or ("20150171913") or ("20130029083") or ("20110058117") or ("20140340925") or ("8246383") or ("8152565") or ("20150022914") or ("8851690") or ("9268366") or ("10591957") or ("20160187714") or ("8629953") or ("9545883") or ("10057989") or ("9274373") or ("9333916") or ("20140017541") or ("20150307027")).PN. or (("8186741") or ("8665510") or ("20190044452") or ("8861191") or ("20150092332") or ("20100213736") or ("8057024") or ("20160264056") or ("20050157056") or ("20130314761") or ("20110096427") or ("20090051743") or ("9440589") or ("9604576") or ("20080088671") or ("8388173") or ("9475431") or ("20080088670") or ("20150307028") or ("7201469") or ("7753483") or ("9174578") or ("20140313563") or ("10590696") or ("20160355135") or ("20170094800") or ("10122129") or ("20180359860") or ("20020166299") or ("8797627") or ("20060238779") or ("20200032576") or ("7841696") or ("9526173") or ("8558141") or ("10112538") or ("20130107563") or ("20080297565") or ("10389203") or ("20070070119") or ("5531950") or ("20170117771") or ("10000156") or ("20120325794") or ("20170313251") or ("7429095") or ("7941196") or ("20050157055") or ("20070146397") or ("9535462") or ("20060238569") or ("20150185784") or ("9570955") or ("20080252699") or ("20080316275") or ("7524021") or ("10396843") or ("20080081679") or ("20150251605") or ("20130088884") or ("7901043") or ("9352692") or ("20080043060") or ("20140265677") or ("20050157050") or ("20180337704") or ("20190364680") or ("10179555") or ("20140079876") or ("20070257964") or ("20080291246") or ("20170071334") or ("20080084674") or ("20080100668") or ("7156489") or ("7758164") or ("20190373750") or				

		("7517049") or ("20160375846") or ("7108353") or ("9519171") or ("7404621") or ("20140362328") or ("20050157045") or ("7404623") or ("9826829") or ("20190280396") or ("20080130277") or ("7556349") or ("20090195611") or ("20150334354") or ("20100091069") or ("7645005") or ("7080894") or ("20050157043") or ("20140327856") or ("9451699") or ("10547123") or ("7832840") or ("20200032577") or ("20190304511") or ("20140029216") or ("7400435") or ("20090002443") or ("20190090367") or ("7104629") or ("8371678") or ("20080266685") or ("20190227406") or ("20120242926") or ("20080089020") or ("20100238654") or ("9945131") or ("8066352") or ("20120127420") or ("20140043778") or ("7703966") or ("20080246808") or ("8905541") or ("20080246811") or ("20050157153") or ("7901044") or ("20100277546") or ("20060274123") or ("20090195610") or ("20090278818") or ("20180295895") or ("20130078870") or ("7517231")).PN. or (("20100225705") or ("20070180264") or ("20050157073") or ("8020969") or ("20060238560") or ("8277059") or ("20080246809") or ("20170226753") or ("7800019") or ("8091982") or ("20180013272") or ("20130294020") or ("9876316") or ("7322673") or ("7219980") or ("7322672") or ("8564950") or ("8550597") or ("20050287868") or ("20080246812") or ("20190230262") or ("20050157004") or ("20160192517") or ("20050157044") or ("RE47419") or ("20170036603") or ("20030011909") or ("20060250493") or ("7090336") or ("7984969") or ("8786799") or ("10381767") or ("20180156494") or ("20020012181") or ("7605348") or ("7798605") or ("20160099741") or ("20190346697") or ("8258433") or ("6447130") or ("6310738") or ("7461919") or ("8228246") or ("20080186357") or ("9615476") or ("8100509") or ("6612708") or ("6537083") or ("20190227200") or ("20070263035") or ("20190227199") or ("20050157087") or ("7083257") or ("20050157079") or ("7768789") or ("20110170192") or ("20090051744") or ("20120026571") or ("20100038352") or ("20080079774") or ("20140262847") or ("20080183133") or ("20050157054") or ("8503061") or ("8976439") or ("20170075440") or ("7328972") or ("9660684") or ("20060181772") or ("20190074677") or ("20150104962") or ("8118400") or ("20130321940") or ("7443693") or				

		("7306349") or ("7152959") or ("7726779") or ("7364895") or ("8531834") or ("6401399") or ("20190118713") or ("20110188224") or ("20090122102") or ("9350001") or ("9548785") or ("9300344") or ("20120009443") or ("20160254837") or ("7461920") or ("20070046728") or ("20170237460") or ("20150169004") or ("20200032575") or ("4139234") or ("7198355") or ("20130027862") or ("20130334072") or ("7648226") or ("9417661") or ("20120314354") or ("9826132") or ("20090244185") or ("20060250492") or ("7712868") or ("20080068428") or ("20050157058") or ("20100097426") or ("20190168672") or ("9703401") or ("7255423") or ("9559741") or ("20040240191") or ("7992966") or ("9801273") or ("20080211885") or ("20170085283") or ("20090058923") or ("20050157048") or ("9276626") or ("7910859") or ("20060203478") or ("20190179099") or ("10578837") or ("20050157069") or ("20050157071") or ("20130063869") or ("7258422") or ("9900041") or ("7918535") or ("7306324") or ("20050157057")).PN. or (("20170264803") or ("20120069517") or ("10090877") or ("7438388") or ("20060204839") or ("7165834") or ("4053688") or ("20090189859") or ("20190351828") or ("7597535") or ("20080211869") or ("7798831") or ("20170135198") or ("20100231648") or ("20030169522") or ("7455392") or ("6824281") or ("20110013280") or ("20100002053") or ("9906700") or ("8079666") or ("10021798") or ("7213906") or ("9781325") or ("8824140") or ("7261401") or ("20090205787") or ("20050157075") or ("20050157072") or ("20160344118") or ("20060227172") or ("20070285479") or ("10363875") or ("20060250458") or ("20190160462") or ("7222938") or ("20080166907") or ("20050157059") or ("9450634") or ("20050190539") or ("20050157090") or ("7178901") or ("8029113") or ("8405726") or ("20160191101") or ("20050157063") or ("10299554") or ("8451586") or ("7188963") or ("20070109355") or ("9864211") or ("10320170") or ("20160320802") or ("10029616") or ("20170264804") or ("20180020138") or ("20070058007") or ("20170264801") or ("20170179622") or ("9894772") or ("9439305") or ("20190014672") or ("10126519") or ("7438385") or ("7636589") or ("7118192") or ("7413283") or ("7156508") or ("20160345449") or				

		("20100124002") or ("20180206607") or ("20050140255") or ("9955762") or ("7306325") or ("20050046978") or ("20160068108") or ("7120024") or ("20050157060") or ("9730370") or ("20090193728") or ("20140312484") or ("8096639") or ("10148859") or ("20150016058") or ("4383468") or ("7370939") or ("7083271") or ("20170264802") or ("20190227256") or ("20180006602") or ("9882305") or ("7303261") or ("20170086551") or ("10175447") or ("20180013229") or ("20180009141") or ("10250783") or ("20180345864") or ("7726790") or ("6410184") or ("20110109517") or ("20050157051") or ("8031462") or ("9324627") or ("20180288296") or ("20170120827") or ("9783115") or ("20120224065") or ("20170129406") or ("9707895") or ("7591533") or ("9439314") or ("20190227258") or ("20180012923") or ("20190227257") or ("10630008") or ("8584407") or ("20190228562") or ("20050157076") or ("20190227337") or ("20100007703") or ("20160145916") or ("10033913") or ("8526180") or ("9557584") or ("20050157064") or ("10432834") or ("20140076772") or ("20180297527") or ("20110019260") or ("8973753")).PN. or (("8783457") or ("20200004078") or ("20080284663") or ("20050023022") or ("9380723") or ("20130250232") or ("20180213131") or ("20020144032") or ("10630876") or ("20160066459") or ("20180113378") or ("20070153059") or ("7874643") or ("20070193042") or ("20140027317") or ("20070003419") or ("20090244183") or ("20070064064") or ("8508384") or ("9056584") or ("10353255") or ("20140017521") or ("20050198840") or ("7012189") or ("7776468") or ("20160057879") or ("20120229882") or ("10345672") or ("10543786") or ("20180160476") or ("9801294") or ("7322676") or ("8074698") or ("20130088766") or ("20080136788") or ("7399053") or ("9101066") or ("20170068143") or ("7911455") or ("20180013271") or ("20190243492") or ("20070121128") or ("9549598") or ("20090017700") or ("7956813") or ("7675145") or ("20100045745") or ("20140227908") or ("20070235845") or ("20070153031") or ("20120038964") or ("9247661") or ("7159972") or ("20100285697") or ("20050224569") or ("20170244877") or ("20100133002") or ("7367649") or ("20120055107") or ("7855755") or ("20190227259") or ("7198354") or				

		("20050157078") or ("6101406") or ("7614724") or ("20140080334") or ("10274694") or ("9229494") or ("10191348") or ("10398043") or ("10359649") or ("20070058008") or ("20170261830") or ("20190230259") or ("20130088130") or ("20050208646") or ("20140313473") or ("20150227178") or ("7210968") or ("7690122") or ("20160074614") or ("7399071") or ("20200021052") or ("20110094560") or ("20050157046") or ("20120127423") or ("20170242276") or ("20190230257") or ("20160066460") or ("20180118116") or ("10595451") or ("20160306394") or ("8007085") or ("9083109") or ("20180164529") or ("8508831") or ("9197002") or ("20110096524") or ("20140290668") or ("20050157070") or ("9035439") or ("20180013934") or ("8342325") or ("7533998") or ("20130194425") or ("7618121") or ("8995125") or ("9692147") or ("20050173917") or ("20150090748") or ("20190227201") or ("7549727") or ("8179437") or ("9317076") or ("20050003421") or ("20150329054") or ("20120211382") or ("7806723") or ("9946097") or ("8944590") or ("7077504") or ("7556360") or ("20010041341") or ("20170244878") or ("20180302116") or ("8508593") or ("20050157052") or ("9107299") or ("9846452") or ("7568786")).PN. or (("20170245370") or ("7310872") or ("20190373149") or ("8783456") or ("20100117216") or ("9701248") or ("9073490") or ("9781324") or ("20130321939") or ("8749633") or ("9862323") or ("20020058331") or ("10446177") or ("20080200064") or ("8393466") or ("20190295575") or ("20050157074") or ("20180029535") or ("20120262667") or ("9089056") or ("7074052") or ("20140340519") or ("8801174") or ("20130314538") or ("8506096") or ("20040171054") or ("20040106130") or ("20190227300") or ("20140173894") or ("20080231704") or ("20060040380") or ("10449903") or ("20140016217") or ("20200014329") or ("9955055") or ("20090267992") or ("20140028243") or ("20190143914") or ("20090290926") or ("7982304") or ("20130092576") or ("20040166525") or ("8537543") or ("20190143901") or ("20120118773") or ("9287591") or ("20160164147") or ("20060221126") or ("20080285216") or ("20030003499") or ("8570737") or ("5945334") or ("20130134848") or ("7758167") or ("10425035") or ("7416274") or ("20070297075") or ("20160192515") or ("20090218808") or				

		("20200059196") or ("20180160478") or ("20130043777") or ("7820329") or ("9179562") or ("7401894") or ("8708142") or ("20100298165") or ("10197890") or ("20170244874") or ("20130077226") or ("20050084895") or ("10211577") or ("20130033736") or ("8057004") or ("10166927") or ("20190089294") or ("6733977") or ("8422247") or ("7733636") or ("20150173227") or ("20180011390") or ("10459266") or ("10416537") or ("20050089953") or ("10466563") or ("20180198404") or ("20190296321") or ("10040021") or ("8548541") or ("20150122854") or ("20170281081") or ("20140217863") or ("9065230") or ("20160233629") or ("20180216336") or ("20090005132") or ("20190041727") or ("8511498") or ("20180083322") or ("20130078871") or ("20060060982") or ("10349889") or ("10429099") or ("20200064704") or ("20130065454") or ("4627469") or ("20130088828") or ("20100309619") or ("20090257189") or ("20170274167") or ("20050106617") or ("20050191630") or ("7972185") or ("20170205679") or ("20140118968") or ("20050214648") or ("20190227253") or ("20110296691") or ("8814112") or ("20050106615") or ("6287850") or ("20190254513") or ("20060234267") or ("9338895") or ("10117347") or ("20090143249") or ("20120092783") or ("5822137")).PN. or (("20100007609") or ("20160361676") or ("20150196867") or ("20180329254") or ("20200047673") or ("20190223569") or ("20050158819") or ("9525251") or ("20110164370") or ("20190267754") or ("20120153102") or ("20130188312") or ("9193077") or ("7083660") or ("10076040") or ("8989823") or ("9385353") or ("20180252988") or ("8531824") or ("20050189627") or ("7723846") or ("9748548") or ("8158458") or ("20170297494") or ("20090028215") or ("9405318") or ("20140112015") or ("20050106618") or ("20180351273") or ("20180231717") or ("20060133044") or ("8213168") or ("20120119892") or ("4325107") or ("20180141126") or ("20150016036") or ("20190230261") or ("6551817") or ("20190230255") or ("10101638") or ("10261648") or ("7077505") or ("5997818") or ("20190232768") or ("20050157077") or ("10446972") or ("20080044603") or ("7802918") or ("20140102626") or ("9438846") or ("20100055845") or ("20150037626") or				

		("20160227652") or ("20130235539") or ("20160264054") or ("10611220") or ("10455738") or ("8305235") or ("10433043") or ("20150043614") or ("20090053590") or ("20110262676") or ("20180184528") or ("9301385") or ("8267534") or ("6399365") or ("9711703") or ("7391563") or ("8727547") or ("7269004") or ("8049640") or ("8817458") or ("20190007587") or ("20130027952") or ("20070279752") or ("20040012868") or ("20010010601") or ("9730338") or ("20130022800") or ("20130321893") or ("8833987") or ("20150369931") or ("20050208373") or ("20100026149") or ("10602633") or ("7361940") or ("20200093390") or ("4700525") or ("20130169891") or ("20190103688") or ("20200004113") or ("20070087637") or ("20110149534") or ("20080084062") or ("20180084636") or ("6969101") or ("20080002354") or ("20160254836") or ("20080151503") or ("4120022") or ("6213612") or ("20180304543") or ("5916600") or ("20110141543") or ("9614569") or ("9341914") or ("7542193") or ("10352771") or ("7175482") or ("20050157083") or ("9878670") or ("7413828") or ("9465117") or ("9481303") or ("6214095") or ("20080166006") or ("7255451") or ("8174846") or ("9090211") or ("5756972") or ("20050208381")).PN.				
S973	436	S968 AND (ADHESIVE OR GLUE)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 12:28
S974	441	S968 AND (ADHESIVE OR GLUE or tape)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 12:28
S975	346	S974 and screw$3	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 12:29
S976	245	S975 and clip$4	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 12:30
S977	217	S976 and polymer	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 12:30

S978	33	S977 and (injection-mold$3 or (injection near mold$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 12:31
S979	184	S977 not S978	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 12:33
S980	3	S979 and ((laptop or (lap near top) or portable or notebook) near3 computer$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 12:33
S981	3	S979 and (((laptop or (lap near top) or portable or notebook) near3 computer$1) or (laptop or (lap near top)))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 12:34
S982	907,395	S979 and (((laptop or (lap near top) or portable or notebook) near3 computer$1)) or (laptop or (lap near top))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 12:34
S983	3	S979 and (laptop or (lap near top))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 12:35
S984	3	S980 S981 S983	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 12:35
S985	50	("20010015005" | "20020059712" | "20030027589" | "20030084859" | "20030127245" | "20050212991" | "20050225449" | "20050285991" | "20060067066" | "20060120035" | "20060193109" | "20060285302" | "20070111598" | "20070121026" | "20070229475" | "20070254502" | "20080055828" | "20080143918" | "20080165485" | "20090067141" | "20090126450" | "20090195974" | "20090257189" | "20090257207" | "20090264160" | "20100061040" | "20100157522" | "20100265179" | "20110090627" | "20110164365" | "20110164372" | "20110260993" | "20120176555" | "20120281158" | "5248960" | "5266746" | "6356313" | "6771490" | "6996424" | "7271861" | "7515431" | "7995334" | "8199477" | "8213168" | "8238087" | "8345410" | "8432678" | "8506327" | "8971028" | "9417661").PN. OR ("10591957").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 12:36
S986	7	("20100007609" | "20160192510" | "20130076575" | "3650312" | "6054939" | "20030007323" | "9176527").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 12:39

S987	11,999	g06f1/1652,1633,1637,1624,1641.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 13:13
S988	940	G09F11/08,02,04,10.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 13:14
S989	0	H05K7/0017,0217,0247.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 13:14
S990	7,630	H05K5/0017,0217,0247.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 13:16
S991	26,519	G06F1/1626,1632,1613,1601.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 13:28
S992	1,477	361/679.3,679.56.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 13:28
S993	30,982	G06F1/1626,1632,1613,1601,18,181.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 13:31
S994	8,579	361/679.3,679.56,679.01,679.02.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 13:32
S995	2	(("20090247237") or ("20080316115")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 13:49
S996	3	(("20080070635") or ("20090033562") or ("6049813")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 14:02
S997	1	S996 AND GLASS	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/27 14:02
S1008	1	"8333355".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/04 19:04

S1009	2	"20130010405"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/05 13:04
S1010	1	"20140132854"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/05 13:04
S1011	3	S1009 S1010	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/05 13:04
S1012	1	"9203231".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/06 14:07
S1013	3	"20150138723"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/08 09:37
S1014	7	("20070216583" | "20070008227" | "20130234910" | "20090179751" | "7983030" | "9059505" | "20130257662").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/10 16:35
S1015	1	("20180295733").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/11 01:55
S1016	4	("2018/0295733").URPN.	USPAT	OR	OFF	2020/05/11 01:56
S1017	267	haughton.xa.	USPAT	OR	OFF	2020/05/11 01:57
S1018	1,412	haughton.xp.	USPAT	OR	OFF	2020/05/11 01:57
S1019	1,679	S1017 S1018	USPAT	OR	OFF	2020/05/11 01:57
S1020	40	S1019 and (head near mount$4)	USPAT	OR	OFF	2020/05/11 01:57
S1021	7	("10095038" | "10251289" | "10251292" | "20180295733" | "9557569" | "9810911").PN. OR ("10408313").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/11 01:58

S1022	16	("20060015986" | "20080109947" | "20080184451" | "20080238815" | "20080276354" | "20160299346" | "20160363768" | "20160363996" | "20160366503" | "20170123451" | "20170337737" | "20180003984" | "20180295733" | "5321416" | "5774096" | "5844530").PN. OR ("10539792").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/11 01:59
S1023	22	S1021 S1022	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/11 01:59
S1024	2	S1023 and cushion	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/11 02:18
S1025	2	S1023 and (light near3 block$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/11 02:26
S1026	22	("20060225187" | "20100327028" | "20110127305" | "20120280007" | "20130327909" | "4457461" | "5179735" | "5276471" | "5321416" | "5469578" | "5671037" | "7484646" | "8814691").PN. OR ("9810911").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/11 02:37
S1027	3	("20140352113" | "20150159413" | "9057215").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/11 02:45
S1028	2	"20140223693"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/11 02:46
S1029	5	S1027 S1028	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/11 02:46
S1030	16	("20100246103" | "20070060224" | "20080251338" | "20070133156" | "8953310" | "20110304962" | "3741376" | "20060282993" | "6301098" | "8787016" | "20120326003" | "8047365" | "20140151248" | "6922333" | "20040240164" | "20110096513").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/11 02:54
S1031	11	S1030 and hing$4	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/11 02:55
S1032	12	S1030 and (hing$4 or pivot$4 or rotat$4)	US-PGPUB;	OR	OFF	2020/05/11 02:55

			USPAT; USOCR			
S1033	11	S1032 and (magnet$4 or magnetically)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/11 03:02
S1034	2	S1033 and rare	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/11 03:04
S1035	3	S1033 and permanent	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/11 03:06
S1036	59	("2011/0096513").URPN.	USPAT	OR	OFF	2020/05/11 04:46
S1037	2	"20110141724"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/21 13:41
S1038	1	"10359659"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/21 13:42
S1039	3	"20150138723"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 03:06
S1040	3	(("20190387635") or ("20180295731") or ("10405440")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 11:16
S1041	1,204	(("20190387635") or ("20180295731") or ("10405440") or ("20030155753") or ("7635043") or ("20010028163") or ("6557889") or ("20040036261") or ("7284769") or ("10080348") or ("10349632") or ("20140338447") or ("10573165") or ("20180055017") or ("20150331456") or ("20180089988") or ("10555504") or ("9612622") or ("20030176959") or ("20190327939") or ("20200128795") or ("20150103018") or ("6823244") or ("9122456") or ("20200008023") or ("20070228703") or ("20100097208") or ("20180288586") or ("10485475") or ("20170318360") or ("10499216") or ("10034066") or ("9342108") or ("20130257582") or ("7481453") or ("20160154439") or ("9780621") or ("20190138005") or ("10279200") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 11:17

		("20170136264") or ("10279201") or ("20080147280") or ("20130035827") or ("20180262894") or ("10390755") or ("8768573") or ("20170156662") or ("20170136265") or ("10383550") or ("20170164876") or ("20190222652") or ("20060005733") or ("20160277879") or ("7475637") or ("20060232052") or ("9579048") or ("10022613") or ("20160189507") or ("20180117447") or ("20190361917") or ("20170249830") or ("20140049393") or ("7832762") or ("20140268601") or ("20140263989") or ("9380961") or ("20190122529") or ("20140228649") or ("20200068372") or ("10099053") or ("20140264047") or ("20160015280") or ("20160015972") or ("20170259811") or ("20080082237") or ("9443366") or ("20190364244") or ("20140002239") or ("20180056985") or ("20190336053") or ("20080284145") or ("20080243342") or ("20140103624") or ("10200834") or ("6234519") or ("20090046538") or ("9689887") or ("20150040669") or ("20190342637") or ("20180133583") or ("6206129") or ("20090058593") or ("10532268") or ("20180264347") or ("9103920") or ("20150040665") or ("20140299783") or ("20080272580") or ("9043093") or ("9022417") or ("20170065210") or ("20190362716") or ("10325596") or ("10561341") or ("6328126") or ("7762580") or ("7740273") or ("9621215") or ("10022614") or ("20160278662") or ("20190358515") or ("10649500") or ("20160058322") or ("20010000886") or ("20170232300") or ("10195513") or ("20180326291") or ("20190365277") or ("20080067792") or ("20180078843") or ("10046228") or ("9117318") or ("20150376897") or ("20190235581") or ("10264995") or ("20180117446") or ("20160029998") or ("9849364")).PN. or (("20150094126") or ("8903519") or ("20060212194") or ("20190174208") or ("10534819") or ("10573093") or ("9610464") or ("20140309847") or ("20080119966") or ("20130073095") or ("7648164") or ("20080086240") or ("20170328931") or ("20120176237") or ("7672756") or ("20080272923") or ("9218698") or ("20100318294") or ("20180215344") or ("9673662") or ("7379800") or ("20190392088") or ("20200104326") or ("20160218556") or ("9525438") or ("9520746") or ("20130078909") or ("9317983") or ("20140306799") or ("9209888") or				

		("20170066406") or ("20170140637") or ("9290144") or ("20030163287") or ("20140012431") or ("20170312614") or ("10046229") or ("8332146") or ("9014953") or ("20170330446") or ("20190287062") or ("20200020165") or ("9721456") or ("20140309805") or ("20190051141") or ("20150068069") or ("20160218555") or ("10281953") or ("10460592") or ("10397875") or ("10585111") or ("20170064058") or ("20190279447") or ("20060212193") or ("20060217864") or ("20160163133") or ("20060284839") or ("20160013818") or ("20080129475") or ("20170223634") or ("7444210") or ("20140306826") or ("20140309852") or ("20140300739") or ("7330784") or ("20080114502") or ("10325471") or ("10127796") or ("20060180371") or ("20120089299") or ("20190342329") or ("10522021") or ("20140310186") or ("7313467") or ("20190247650") or ("20120223833") or ("20130078908") or ("8781715") or ("7555370") or ("20180120892") or ("10200074") or ("9491420") or ("20110306304") or ("20150285832") or ("9986313") or ("20140309853") or ("9784887") or ("20120130203") or ("8874129") or ("20170163307") or ("8169311") or ("9154593") or ("7034677") or ("7719416") or ("20190058242") or ("8346438") or ("8860570") or ("20180203158") or ("9130651") or ("20070139216") or ("20070156320") or ("9417331") or ("20070085697") or ("20180089622") or ("20190317564") or ("20190361148") or ("20180288990") or ("7889096") or ("20120244848") or ("7693626") or ("20180167098") or ("7523803") or ("20170180829") or ("20120197622") or ("9723122") or ("20160347426") or ("20170251096") or ("20200008299") or ("20120130202") or ("20060243043") or ("20190046373") or ("20160051735") or ("20180241489") or ("20150338525") or ("20100271199") or ("20070096565") or ("9390625") or ("20140312242")).PN. or (("20120197621") or ("9781248") or ("10405070") or ("20120028680") or ("20100207754") or ("20160038083") or ("20160294493") or ("4995639") or ("20160182170") or ("20070126561") or ("20100268423") or ("20090043441") or ("9211811") or ("20120130201") or ("20190339222") or ("8035508") or ("20070057781") or ("7786864") or ("20080157940") or ("8907772") or ("8239169") or				

		("7549327") or ("20180241488") or ("7880594") or ("7920102") or ("20180086457") or ("8157047") or ("20180293866") or ("20130006469") or ("20120188083") or ("20170284996") or ("20190339223") or ("20070075919") or ("8618934") or ("20040204915") or ("10226552") or ("20140067313") or ("20170374437") or ("20190339221") or ("20150223541") or ("7171312") or ("8054203") or ("9420840") or ("8229624") or ("20080277911") or ("20190028584") or ("20080147271") or ("20180131455") or ("9774410") or ("9961523") or ("10225688") or ("9115989") or ("9900119") or ("20150081247") or ("20170373775") or ("10361800") or ("20180359039") or ("10389459") or ("7527288") or ("20090015400") or ("20200130771") or ("20170235348") or ("20080046149") or ("20160313467") or ("9063165") or ("10147295") or ("10063331") or ("20060244581") or ("5231253") or ("20190339224") or ("8786437") or ("10126779") or ("7630802") or ("20160344440") or ("10384749") or ("20190220863") or ("9958904") or ("20030093187") or ("20140357295") or ("20190175960") or ("20040130442") or ("8354927") or ("9008854") or ("20140288403") or ("20140253284") or ("20120296567") or ("20130041235") or ("7760080") or ("7386372") or ("20080088462") or ("20130325323") or ("10492686") or ("20170124836") or ("20190021596") or ("6988026") or ("10638401") or ("20150218872") or ("10240935") or ("20140031703") or ("20180055361") or ("20140183269") or ("20060167595") or ("20200065433") or ("9122966") or ("20180206177") or ("20190204865") or ("20090303204") or ("20070205881") or ("9833143") or ("9749000") or ("6965816") or ("20170317707") or ("20070271014") or ("20110290645") or ("20200111342") or ("10327638") or ("8792955") or ("20120130196") or ("20080216567") or ("20170230790") or ("10094673") or ("9035776") or ("10441185") or ("20050187677") or ("20180089611") or ("9781965") or ("7744122") or ("20170006950") or ("20120127157")).PN. or (("20130222115") or ("9607301") or ("7650210") or ("20190088098") or ("9638829") or ("20180000183") or ("10593176") or ("8928671") or ("9456302") or ("9432492") or ("9929767") or ("10252145") or ("20080065290") or ("20070005202") or ("20160152211") or ("20080282817") or ("20080156406") or ("10019881") or ("20080147265") or ("8912892") or				

		("10324078") or ("10657485") or ("8384538") or ("20190384354") or ("20120065937") or ("20200154799") or ("20180001184") or ("20180086455") or ("8462109") or ("20130035901") or ("20160246326") or ("20070124047") or ("7726684") or ("10278443") or ("20140070943") or ("20080284575") or ("20130082924") or ("20080054603") or ("20190175411") or ("20190223535") or ("20100283626") or ("9090339") or ("10152060") or ("20160262694") or ("20080094212") or ("8019501") or ("10331168") or ("8581688") or ("20160332739") or ("7961094") or ("20170224257") or ("10482418") or ("9593521") or ("10139859") or ("20080042410") or ("20190103182") or ("7408453") or ("20080061959") or ("20170328997") or ("20180086456") or ("10613213") or ("20170071538") or ("20070299587") or ("7603894") or ("20140358361") or ("7579940") or ("10275797") or ("20180141545") or ("20080272906") or ("8036788") or ("10106124") or ("8410945") or ("20180167100") or ("8024084") or ("20110218757") or ("20140336868") or ("8952809") or ("20180027909") or ("20180288364") or ("20090262074") or ("20170235333") or ("20140358362") or ("20190113774") or ("10360780") or ("7580782") or ("20190129491") or ("20070235331") or ("20180259965") or ("9489609") or ("20080161989") or ("10420507") or ("20080140278") or ("20100294437") or ("7421321") or ("20180374330") or ("20170235334") or ("20190242868") or ("10291279") or ("20090042065") or ("20080040005") or ("10156867") or ("20190286152") or ("10032148") or ("20170235933") or ("10616534") or ("8638217") or ("20170372216") or ("7584036") or ("9195269") or ("20050273218") or ("20170053253") or ("20180108974") or ("20200089272") or ("20070156312") or ("20190287363") or ("20180014734") or ("20110218756") or ("20060025897") or ("10496131") or ("20170235332") or ("20150356285") or ("20200080775") or ("20060026017") or ("20200101367") or ("20040039509") or ("20080048421") or ("10614403") or ("20180249133")).PN. or (("8060282") or ("10296863") or ("20130192356") or ("7089099") or ("8364229") or ("20200003918") or ("20160310077") or ("20140295910") or ("20070005609") or ("20150324635") or				

		("20190086951") or ("20180321185") or ("20190142349") or ("20190313223") or ("20190283240") or ("7752952") or ("7467034") or ("20060273556") or ("9443358") or ("20140202800") or ("9999744") or ("9412273") or ("20040145457") or ("20160317781") or ("20190173510") or ("20070096446") or ("20130131478") or ("20110285527") or ("7657354") or ("20120289791") or ("20200037874") or ("20180322436") or ("7579939") or ("20200037875") or ("20140128703") or ("10296093") or ("20140128704") or ("20060202452") or ("20190335997") or ("20180320967") or ("20190286138") or ("20180132761") or ("9763609") or ("10376143") or ("20090315704") or ("20190369728") or ("20160015299") or ("20110163955") or ("20190191284") or ("20060206246") or ("20190286139") or ("20120289792") or ("6850824") or ("20150269830") or ("20120289794") or ("20100141435") or ("20190175961") or ("20080047329") or ("20080212215") or ("20180125365") or ("20060097494") or ("10478727") or ("10403121") or ("20170312578") or ("7629899") or ("8482399") or ("8622900") or ("20180295829") or ("8351773") or ("20170258402") or ("9033116") or ("9470563") or ("20150130637") or ("20140226268") or ("20190294136") or ("20120092178") or ("20080088441") or ("9173567") or ("20120291613") or ("20140104059") or ("20190200184") or ("20120289789") or ("20050192727") or ("20190369646") or ("20130265225") or ("20120157804") or ("9189599") or ("20140265580") or ("20100214216") or ("20130085705") or ("10052519") or ("7988190") or ("20120289793") or ("20080042409") or ("10395018") or ("9524597") or ("10599101") or ("20120289790") or ("20120289788") or ("20110215931") or ("20120290215") or ("9292102") or ("8540629") or ("8622901") or ("8529447") or ("20190120871") or ("8725462") or ("20180027893") or ("8617067") or ("20130118255") or ("20050125117") or ("20140176296") or ("7712777") or ("20190286164") or ("10620591") or ("20170097243") or ("20130033381") or ("9151692") or ("9852599") or ("10613485") or ("20080108372") or ("20180088578") or ("20070021915") or ("20100164711") or ("4900880") or ("10004451") or ("8646386")).PN. or (("9058703") or ("10395221") or ("20150061895")				

		or ("20180238820") or ("20060261579") or ("9729730") or ("20080036617") or ("10586437") or ("7907838") or ("7583184") or ("20190043337") or ("20150009168") or ("9993166") or ("20160320860") or ("8622899") or ("20180349869") or ("20120290266") or ("9979427") or ("9030321") or ("20180294870") or ("20190283962") or ("20180343304") or ("20150346722") or ("20120092156") or ("9857265") or ("10378993") or ("20170257492") or ("20170030798") or ("10128890") or ("9351640") or ("8994546") or ("20130211291") or ("20080100706") or ("20080064413") or ("20200064175") or ("9384609") or ("8014789") or ("20170032114") or ("7040653") or ("20170301220") or ("20200036434") or ("7082359") or ("20080036185") or ("20160378071") or ("20190287046") or ("20180081335") or ("20160378070") or ("20090143923") or ("20050067816") or ("20060273558") or ("20130002443") or ("20170336882") or ("9206672") or ("20090143944") or ("20160097861") or ("10275959") or ("9349234") or ("20080272579") or ("7418346") or ("9233645") or ("20180295828") or ("10627783") or ("20140306814") or ("10545584") or ("20040256842") or ("20140108789") or ("8948442") or ("20150331008") or ("20040183283") or ("20130017421") or ("8747336") or ("20130180423") or ("20190033164") or ("10614408") or ("9392854") or ("20160021998") or ("20070171037") or ("20190283239") or ("9466161") or ("10610111") or ("20160378069") or ("20190361414") or ("20190287047") or ("9335764") or ("20170180336") or ("9290146") or ("20030009270") or ("9155367") or ("10404353") or ("20160324286") or ("10289204") or ("20170213459") or ("20190347368") or ("10143280") or ("8461988") or ("20140268516") or ("9587924") or ("8047432") or ("10031521") or ("9637053") or ("20140266688") or ("6758089") or ("20030005759") or ("20190213870") or ("20190391664") or ("20160234356") or ("20160058375") or ("20180338485") or ("20160249853") or ("8890823") or ("5192838") or ("20190047493") or ("20140309919") or ("7103460") or ("20180283977") or ("20160233912") or ("20200005623") or ("20170313238") or ("20190090603") or ("8860569") or ("20080262646") or ("9910060") or ("20150378382") or ("8427288") or ("20100062833") or ("6169479") or ("10592305") or				

		("7150048") or ("20140306835")).PN. or (("20180203443") or ("9582465") or ("20200103305") or ("20150338433") or ("9994145") or ("10423136") or ("9410809") or ("10134278") or ("6009970") or ("20180295827") or ("20190003877") or ("9720480") or ("20180338486") or ("7446650") or ("20160100084") or ("20150041663") or ("20070197889") or ("7017195") or ("7338069") or ("20140308930") or ("20040215382") or ("9246691") or ("20120032876") or ("20180022310") or ("20140136847") or ("20120062744") or ("7996132") or ("20150205946") or ("20070012349") or ("20080174423") or ("20130229522") or ("20160018278") or ("10529221") or ("20070132567") or ("20080154495") or ("9713756") or ("20160040998") or ("20140309930") or ("10440453") or ("20140306834") or ("20180234748") or ("10427604") or ("7059182") or ("20190172348") or ("20190374163") or ("20180295826") or ("9065893") or ("20130176264") or ("20130158928") or ("20140262848") or ("8044776") or ("20180293873") or ("20170173262") or ("6738697") or ("7575248") or ("9717958") or ("20180361239") or ("6690268") or ("20150287298") or ("20190171405") or ("10606543") or ("10130843") or ("20160101319") or ("7976060") or ("20070132219") or ("20170003133") or ("9940834") or ("20160041820") or ("20140309849") or ("20160039426") or ("10249109") or ("20140310702") or ("20190283252") or ("20110095940") or ("20140310379") or ("20120130214") or ("20090290369") or ("9998804") or ("8115620") or ("20130267809") or ("10013547") or ("9823265") or ("20140309838") or ("8583915") or ("20140308902") or ("20160334771") or ("20180336074") or ("20200034501") or ("20200051456") or ("20050137786") or ("20090159408") or ("10059265") or ("20140288381") or ("9622556") or ("20080270076") or ("20080036580") or ("20180115795") or ("20090061897") or ("9613202") or ("20060183985") or ("7050897") or ("20190373344") or ("20120109399") or ("20020003571") or ("20120143514") or ("8310363") or ("20040117116") or ("10206470") or ("20180173488") or ("20190287063") or ("20170161484") or ("20140136755") or ("9643091") or ("20170172268") or ("8113494") or ("9717949") or ("20140257065") or ("9542822") or				

		("20180001183") or ("20180348759") or ("20180123485") or ("20060183984") or ("20200104433") or ("20190388021") or ("20180270547") or ("20030227394") or ("9002679")).PN. or (("20190132709") or ("20130095459") or ("20060038387") or ("9609462") or ("10041690") or ("20180109764") or ("20160304198") or ("20170309088") or ("20140288402") or ("20180090992") or ("20060155180") or ("9975033") or ("7962285") or ("9738151") or ("10171940") or ("20190385438") or ("20030023360") or ("9610476") or ("9597567") or ("20150087942") or ("20080275327") or ("9485266") or ("8684922") or ("20170036771") or ("20080250869") or ("20170078223") or ("20130211976") or ("20190009721") or ("7766383") or ("20110093227") or ("20180360493") or ("20170299199") or ("20180095470") or ("20100081908") or ("20150276266") or ("20080228429") or ("20060142651") or ("20200077928") or ("20130082840") or ("20160008029") or ("20140081813") or ("9373207") or ("20150148638") or ("20190063891") or ("20070120347") or ("10299968") or ("20170169616") or ("20140066124") or ("20170263120") or ("10643406") or ("10542332") or ("8744418") or ("20170374436") or ("10628617") or ("10127810") or ("20050080566") or ("8560274") or ("9896202") or ("20160045145") or ("20160357188") or ("6958693") or ("7110880") or ("20170367452") or ("10263967") or ("20190064998") or ("8968198") or ("20180160949") or ("9836056") or ("20200117690") or ("20170065464") or ("20050268962") or ("20200077932") or ("20130201316") or ("20180296401") or ("20190209391") or ("20180270549") or ("20180360358") or ("8121808") or ("8133178") or ("10482743") or ("20070059196") or ("20050278098") or ("8886272") or ("20180176272") or ("20170269599") or ("6997638") or ("9843777") or ("20130267811") or ("20050031411") or ("9646439") or ("20080236275") or ("9448562") or ("10304311") or ("20190388667") or ("7819003") or ("20160357187") or ("20070173708") or ("20180070155") or ("20070038044") or ("9007229") or ("20180002018") or ("6757611") or ("20180360357") or ("9290153") or ("20160358477") or ("10039359") or ("8615282") or ("20080046200") or ("20160310051") or ("20190109904") or ("20200113515") or				

		("20150350862") or ("7857760") or ("20130082919") or ("10022277") or ("20140074696") or ("20070262574") or ("20190069817") or ("20170237946") or ("20170172222") or ("10308065") or ("20160342145") or ("9082103") or ("20080147278") or ("20190223773") or ("20200100713") or ("10447179")).PN. or (("9147297") or ("7085637") or ("20180174420") or ("10491971") or ("20140309885") or ("9711050") or ("9247900") or ("20070210566") or ("20160049051") or ("20190205115") or ("20140265565") or ("20200085350") or ("20060052983") or ("20050139363") or ("20160244011") or ("20060253239") or ("9536361") or ("20190125204") or ("20200085351") or ("20130193004") or ("8186711") or ("20200100714") or ("20190098090") or ("7778792") or ("6701238") or ("20180028091") or ("20050257827") or ("9082239") or ("20190003810") or ("20190246965") or ("9883209") or ("20070100527") or ("8938787") or ("20160240061") or ("20190299895") or ("9147296") or ("20170006340") or ("20160242680") or ("20150125832") or ("9710842") or ("20200095059") or ("20160357262") or ("20160048369") or ("20140070957") or ("20200120405") or ("20100198034") or ("7640048") or ("20150232065") or ("9015071") or ("10117005") or ("9724028") or ("20170258585") or ("20100052945") or ("9372123") or ("20080036252") or ("9946262") or ("20180186366") or ("20140309886") or ("20160048370") or ("20180034912") or ("20190199388") or ("20170247000") or ("9209851") or ("9020697") or ("10414494") or ("20170232888") or ("10598473") or ("20130174756") or ("7353136") or ("9931065") or ("20080189053") or ("20080046150") or ("20130267813") or ("10345775") or ("20160198129") or ("20150264572") or ("10374649") or ("9865176") or ("20170086519") or ("20160106349") or ("20150094030") or ("10188311") or ("20170287335") or ("20190341959") or ("20050060069") or ("20180278693") or ("20140307724") or ("9235941") or ("10058290") or ("20180278694") or ("9282893") or ("20190366962") or ("7174277") or ("10607413") or ("8231531") or ("20140309870") or ("20170075701") or ("20160075226") or ("8750955") or ("9071969") or ("9305411") or				

		("20190357818") or ("9668677") or ("20190069653") or ("20140309806") or ("20160070527") or ("20170133954") or ("20190363757") or ("7900736") or ("20170013464") or ("9378602") or ("7359782") or ("20150035680") or ("20160174841") or ("9526006") or ("10023117") or ("9142072") or ("10061287") or ("8382008") or ("20150294363") or ("20190163178") or ("10037689") or ("20140309869") or ("20080165018") or ("20140077946") or ("10582259") or ("9689824") or ("20130174754") or ("20130192332")).PN. or (("20180375940") or ("20160155326") or ("10335962") or ("20180140236") or ("20120092157") or ("10308256") or ("20140163425") or ("20070109111") or ("20150301565") or ("20130267812") or ("20190282131") or ("20160192039") or ("9613539") or ("20140172358") or ("10096255") or ("20180327091") or ("20140060366") or ("20160075175") or ("10314525") or ("20190114005") or ("20180124181") or ("9142071") or ("20040135684") or ("20200150077") or ("10005317") or ("10009581") or ("20190104715") or ("20160205419") or ("20200142368") or ("20180059660") or ("9784755") or ("20140310594") or ("20120304365") or ("20160009223") or ("9562873") or ("20080040004") or ("10259311") or ("20170078400") or ("10581347") or ("20140309880") or ("20200004791") or ("20140309868") or ("20160051173") or ("20140310610") or ("7630806") or ("20130288647") or ("20140310739") or ("20110190614") or ("20120260220") or ("9204796") or ("20160082772") or ("20140364772")).PN.				
S1042	1,477	361/679.56,679.3.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 11:25
S1043	1,630	307/650-653.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 11:25
S1044	1,026	267/136.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 11:25

S1045	1,322	702/141.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 11:25
S1046	3,997	H05K5/069,0086,03.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 11:29
S1047	8	((("BURDOUCCI") near3 ("Romello"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/05/25 11:29
S1048	785	((("ZADESKY") near3 ("Stephen")) OR (("HOBSON") near3 ("Phillip")) OR (("TAN") near3 ("Tang"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/05/25 11:35
S1049	2,924	H05K5/0217,0013.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 11:36
S1050	352	H04M1/0252.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 11:36
S1051	7,824	361/679.21-679.3,679.55,679.56.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 11:36
S1052	10,564	455/575.1-575.9.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 11:36
S1053	20,954	G06F1/1601,1613,1626,1633.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 11:37
S1054	559	(("9729186") or ("10412846") or ("20190369668") or ("20090104949") or ("20070053504") or ("20130235538") or ("10509439") or ("10133107") or ("20170212377") or ("20200117235") or ("20120194998") or ("10656674") or ("9706024") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 11:38

		("8457701") or ("20160337488") or ("8660621") or ("7311366") or ("20020104769") or ("7032984") or ("20060138913") or ("20190094906") or ("20120046076") or ("20190361496") or ("9710017") or ("9910520") or ("8060164") or ("20140075743") or ("10547719") or ("20090103250") or ("9912789") or ("20190253544") or ("8587939") or ("20160337489") or ("20170336829") or ("20160334897") or ("20110309728") or ("20130265703") or ("9185813") or ("10212833") or ("20060139898") or ("7664256") or ("20120088558") or ("20160174395") or ("20160062391") or ("20160066440") or ("7092520") or ("20110255259") or ("8964352") or ("9342105") or ("7558057") or ("20180213663") or ("8531833") or ("8917506") or ("20060171104") or ("9639123") or ("20190297741") or ("9402452") or ("10383241") or ("20140321052") or ("20150253819") or ("20140165379") or ("9298220") or ("20060160585") or ("10368457") or ("9866931") or ("20160066412") or ("20130279088") or ("10452097") or ("9286024") or ("8855728") or ("20130083470") or ("20180210495") or ("7782610") or ("20100029349") or ("7612997") or ("20160065262") or ("20200137908") or ("20130334072") or ("20130222706") or ("8724304") or ("7889498") or ("20110031287") or ("20130221812") or ("20100321871") or ("20120106037") or ("7257432") or ("20100124040") or ("20130082585") or ("20160056856") or ("10419055") or ("8382059") or ("20050250563") or ("20130134291") or ("10394276") or ("9116655") or ("20180324964") or ("6978123") or ("20170149940") or ("6970210") or ("9267638") or ("10401904") or ("20130077221") or ("20180210497") or ("8526161") or ("9086836") or ("20180048342") or ("20170351164") or ("8171761") or ("10290441") or ("20100155265") or ("9538675") or ("20040036818") or ("10401902") or ("10203587") or ("7016712") or ("20170308123") or ("20040203507") or ("9513664") or ("20170213665") or ("10353439") or ("10474193") or ("8960634") or ("20200089282") or ("20030083019") or ("8706176") or ("20110255260") or ("20160378070") or ("20160378071") or ("20200026327") or ("10608690")).PN. or (("20060238440") or ("20140001022") or ("10620591") or ("20180210513") or ("20180074559") or ("20190372615") or ("20160378069") or ("20200053896") or ("20120199501") or				

		("10599101") or ("20150163936") or ("20160058375") or ("20030189759") or ("20180059729") or ("10206490") or ("7414594") or ("9871900") or ("20170049000") or ("10488888") or ("10613485") or ("20150331451") or ("10416726") or ("20180181163") or ("20160150062") or ("20170214777") or ("9513668") or ("10627783") or ("20190305237") or ("20170060182") or ("9621690") or ("9472917") or ("9203938") or ("8804317") or ("20160044800") or ("20160231783") or ("20030138097") or ("9143181") or ("10416711") or ("20020057792") or ("20180199454") or ("9086835") or ("20140218856") or ("20150256655") or ("7497733") or ("7058176") or ("20080311963") or ("20120113614") or ("20170013738") or ("9817444") or ("20130170117") or ("20170142240") or ("20130083477") or ("20160044148") or ("20180019778") or ("20190297738") or ("10019032") or ("10268245") or ("9256250") or ("20150370288") or ("10268237") or ("9888100") or ("20160195900") or ("9917935") or ("20180210511") or ("9557770") or ("20150323962") or ("20190342435") or ("20130265504") or ("20180210496") or ("20160198037") or ("9128666") or ("20150334211") or ("10268244") or ("20100035670") or ("20180167497") or ("7885403") or ("8346320") or ("20060239445") or ("9454179") or ("10404310") or ("20160195895") or ("9886056") or ("10582032") or ("20190182583") or ("20020137476") or ("6973186") or ("20180210510") or ("20160195896") or ("7697270") or ("20190343260") or ("10609832") or ("20140066144") or ("20090079698") or ("20130294640") or ("8264463") or ("20080070644") or ("20090021899") or ("20180069585") or ("20130120914") or ("9750152") or ("9857836") or ("20040169044") or ("10530912") or ("9904317") or ("10182623") or ("20100157548") or ("10461795") or ("8982544") or ("20190110561") or ("8773848") or ("20190310686") or ("10171896") or ("20160044816") or ("20070205986") or ("10433438") or ("20190199840") or ("9300345") or ("20180132020") or ("10085523") or ("10200517") or ("9768822") or ("20160040698") or ("20190261519") or ("20160221721") or ("20180063305") or ("20180249586") or ("20180337704") or ("10007295") or ("10264857")).PN. or (("10144551") or ("9668597") or ("20190253550") or ("10524044") or ("20160037870") or ("9877549") or				

		("20170170863") or ("10396843") or ("10575602") or ("9223346") or ("20190216178") or ("9660684") or ("20150036864") or ("7239700") or ("9106728") or ("7672451") or ("20190053584") or ("8718725") or ("9894964") or ("10599186") or ("20130258205") or ("20160037876") or ("10274996") or ("20120020509") or ("20130083464") or ("20140364177") or ("20120281380") or ("9778685") or ("20150191124") or ("20070121307") or ("9313305") or ("20170225833") or ("9363591") or ("20160040695") or ("20170031385") or ("20160037877") or ("7405703") or ("10123593") or ("20180198901") or ("9943018") or ("20090019668") or ("9866676") or ("20100022268") or ("10277731") or ("9559741") or ("20150027912") or ("20130294020") or ("7088294") or ("20080287171") or ("8478369") or ("20180292862") or ("10361741") or ("20160234362") or ("20170237460") or ("9614569") or ("8032194") or ("7612726") or ("20190349018") or ("9615476") or ("20160242331") or ("20180210512") or ("20180146084") or ("10292317") or ("8390412") or ("20180125178") or ("9198317") or ("9317243") or ("20060220969") or ("20050270240") or ("9756739") or ("20110275422") or ("9578149") or ("9185816") or ("9846452") or ("7599721") or ("20200019214") or ("20060053847") or ("9399316") or ("7629074") or ("20100120479") or ("7839343") or ("20150208526") or ("20100137040") or ("7225003") or ("20190134867") or ("20190053613") or ("9213428") or ("20150241917") or ("20190132016") or ("8143983") or ("20160099741") or ("20130083558") or ("20070243906") or ("9639119") or ("20200092408") or ("20140198466") or ("8887902") or ("20180228061") or ("9560179") or ("20120275100") or ("20160254836") or ("20130127309") or ("20190253538") or ("8224405") or ("7031762") or ("20060205269") or ("20170083046") or ("10334092") or ("20150305461") or ("20140233167") or ("10261541") or ("8995126") or ("7031758") or ("20110188180") or ("10079923") or ("20180032107") or ("20060025185") or ("20180143663") or ("8706174") or ("9874901") or ("20170196112") or ("9992888") or ("20130027862") or ("20180077810") or ("20180191881") or ("20110186345") or ("20190215026") or ("8551283") or ("8797721") or ("10609473") or ("20070206116")).PN. or				

		(("20040198307") or ("20140144792") or ("8531834") or ("9098242") or ("9276626") or ("20160062398") or ("20120282983") or ("20150061477") or ("20150189769") or ("20060099837") or ("9930444") or ("10574799") or ("20130093300") or ("20150171913") or ("10236928") or ("20130328462") or ("20180091897") or ("8594755") or ("20170251087") or ("20130314611") or ("9606579") or ("20160048165") or ("9438707") or ("20090215412") or ("20120314354") or ("20090264160") or ("9604686") or ("10342323") or ("20190243415") or ("20150195938") or ("9125298") or ("9904501") or ("9971383") or ("10524033") or ("9402016") or ("20170090512") or ("20200057525") or ("20080037770") or ("20120281381") or ("20170205923") or ("8289114") or ("20190335258") or ("9886059") or ("7616975") or ("8203656") or ("20130296004") or ("10514877") or ("10090877") or ("20150181737") or ("20160041583") or ("20170364121") or ("20030013490") or ("20180091896") or ("20180227664") or ("7991147") or ("20160134732") or ("9462098") or ("20130083469") or ("7542565") or ("9946505") or ("7353052") or ("8624111") or ("20180270971") or ("20110310314") or ("20060200943") or ("20200107099") or ("20120069503") or ("20060177048") or ("20160098064") or ("20150191126") or ("20060034041") or ("20190380218") or ("20060217164") or ("20130088447") or ("6470175") or ("9232670") or ("20050176475") or ("20050124397") or ("9769929") or ("20100142127") or ("8150480") or ("8050023") or ("20130076597") or ("20120327565") or ("9176701") or ("9497697") or ("9013867") or ("9645607") or ("10299554") or ("20180232191") or ("20130083467") or ("8805461") or ("20180181361") or ("7082324") or ("10045447") or ("20180206607") or ("20070115269") or ("10520984") or ("20160116943") or ("9439314") or ("20110187245") or ("9955762") or ("20120069540") or ("20110263304") or ("8374658") or ("8534487") or ("8814128") or ("20080037771") or ("20100328856") or ("20190273336") or ("7304837") or ("20190121391") or ("20130214018") or ("20200065047") or ("20150173497") or ("9229675") or ("6347218") or ("20130252679") or ("20190278332") or ("20170086551") or ("20160066459") or ("20160054537") or ("20130083468") or ("10179281") or ("8564950") or				

		("7266397") or ("20200076057") or ("20100061040") or ("10180702")).PN. or (("20140152890") or ("9300344") or ("20090122473") or ("9900999") or ("20130279142") or ("20070115621") or ("9992313") or ("10542802") or ("10254795") or ("10179280") or ("9690258") or ("9549598") or ("9469469") or ("20140092531") or ("8014134") or ("9380723") or ("20040110540") or ("8126138") or ("20050270242") or ("7697281") or ("20100124003") or ("20160095241") or ("20160327987") or ("20180091879") or ("10630822") or ("20100154171") or ("20180299924") or ("20160057879") or ("20070247389") or ("8917985") or ("20150342308") or ("9247349") or ("20190339746") or ("20180092229") or ("7266399") or ("20100146766") or ("7982677") or ("20160056855") or ("7091911") or ("8274437")).PN.				
S1055	13	("20020044136" | "20030161093" | "20060198094" | "20080048971" | "20080137271" | "20080214250" | "5257164" | "6014552" | "6052279" | "6462938" | "6532152" | "6842333" | "7072624").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 11:54
S1056	886	((("WANG") near3 ("Paul")) OR (("LEHMANN") near3 ("Alex")) OR (("GAO") near3 ("Zheng"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/05/25 11:59
S1057	60,395	G06F3/0202,0213,0236,041,044,04886.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 12:03
S1058	941	H03K17/96,9618,967,972.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 12:03
S1059	27,171	g06f1/1679,1607,1616,1618,1624,1637,166,1632,1633,1654.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 12:03
S1060	5	("20070119693" | "20110267285" | "20120092263" | "20150192960" | "20160049266").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 12:10

S1061	43	("2016/0049266").URPN.	USPAT	OR	OFF	2020/05/25 12:19
S1062	3	("2015/0192960").URPN.	USPAT	OR	OFF	2020/05/25 12:20
S1063	64	("2012/0092263").URPN.	USPAT	OR	OFF	2020/05/25 12:20
S1064	2	("2011/0267285").URPN.	USPAT	OR	OFF	2020/05/25 12:21
S1065	1	("2007/0119693").URPN.	USPAT	OR	OFF	2020/05/25 12:21
S1066	113	S1061 S1062 S1063 S1064 S1065	USPAT	OR	OFF	2020/05/25 12:21
S1067	4	S1066 and (glass near3 (key$1 or keypad$1 or keyboard$1))	USPAT	OR	OFF	2020/05/25 12:22
S1068	4	S1066 and (glass near4 (key$1 or keypad$1 or keyboard$1))	USPAT	OR	OFF	2020/05/25 12:22
S1069	6	S1066 and (glass near5 (key$1 or keypad$1 or keyboard$1))	USPAT	OR	OFF	2020/05/25 12:22
S1070	11	(("20190265751") or ("20170177025") or ("10289158") or ("20150261254") or ("9594402") or ("20030081395") or ("20190288325") or ("20150111088") or ("10320025") or ("8917517") or ("20110176283")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 12:30
S1071	7,579	361/679.01,679.02,679.03.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 12:35
S1072	0	G06F1/163,1635,1643,1652	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 12:36
S1073	669	((("HIROKI") near3 ("Masaaki")) OR (("FURUMATSU") near3 ("Daisuke"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	OFF	2020/05/25 12:37

			DERWENT			
S1074	17,808	G06F1/163,1635,1643,1652.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 12:37
S1075	1,848	((("PEIL") near3 ("Brian")) OR (("AOKI") near3 ("Russell")) OR (("MAGI") near3 ("Aleksander")) OR (("EDWARDS") near3 ("James")) OR (("NGUYEN") near3 ("Don")) OR (("OAKLEY") near3 ("Nicholas")) OR (("LOI") near3 ("Daria")) OR (("GUPTA") near3 ("Meenakshi")) OR (("JEGANATHAN") near3 ("Nithyananda"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/05/25 12:38
S1076	75	(("20180307275") or ("20150263565") or ("9401621") or ("20150011160") or ("20190237985") or ("9088305") or ("20130205060") or ("20150318898") or ("9319109") or ("20160134149") or ("10084338") or ("20180074547") or ("10122184") or ("20160072327") or ("20160006291") or ("20140242911") or ("20160118179") or ("9806555") or ("20150084583") or ("9559754") or ("9979236") or ("20160141884") or ("20150035474") or ("8527688") or ("8559659") or ("20120294463") or ("9325187") or ("9577448") or ("9444276") or ("20130307468") or ("20140191713") or ("20140347008") or ("9461479") or ("20150008876") or ("20080278899") or ("9831030") or ("20170090516") or ("7352567") or ("20180098366") or ("20070035917") or ("20100177476") or ("9263910") or ("8234509") or ("20150222138") or ("7715187") or ("9444289") or ("10039147") or ("20180062420") or ("7916467") or ("9825672") or ("20200044493") or ("10468919") or ("9729003") or ("20130062961") or ("9742214") or ("9094059") or ("20190369665") or ("20150008756") or ("20120299389") or ("20160043590") or ("8385822") or ("20170003713") or ("20140266021") or ("10429890") or ("10135260") or ("20160164308") or ("8712324") or ("20130332641") or ("20140359188") or ("20190058332") or ("9329633") or ("20180198312") or ("9692248") or ("20120225622") or ("20140065956")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 12:38
S1077	9,313	g06f1/1632.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 12:42

S1078	7,699	H02J50/80.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 12:42
S1079	19,858	H02J7/0027,0044,025.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 12:43
S1080	2,917	361/679.4-679.45.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 12:43
S1081	75	(("20180307275") or ("20150263565") or ("9401621") or ("20150011160") or ("20190237985") or ("9088305") or ("20130205060") or ("20150318898") or ("9319109") or ("20160134149") or ("10084338") or ("20180074547") or ("10122184") or ("20160072327") or ("20160006291") or ("20140242911") or ("20160118179") or ("9806555") or ("20150084583") or ("9559754") or ("9979236") or ("20160141884") or ("20150035474") or ("8527688") or ("8559659") or ("20120294463") or ("9325187") or ("9577448") or ("9444276") or ("20130307468") or ("20140191713") or ("20140347008") or ("9461479") or ("20150008876") or ("20080278899") or ("9831030") or ("20170090516") or ("7352567") or ("20180098366") or ("20070035917") or ("20100177476") or ("9263910") or ("8234509") or ("20150222138") or ("7715187") or ("9444289") or ("10039147") or ("20180062420") or ("7916467") or ("9825672") or ("20200044493") or ("10468919") or ("9729003") or ("20130062961") or ("9742214") or ("9094059") or ("20190369665") or ("20150008756") or ("20120299389") or ("20160043590") or ("8385822") or ("20170003713") or ("20140266021") or ("10429890") or ("10135260") or ("20160164308") or ("8712324") or ("20130332641") or ("20140359188") or ("20190058332") or ("9329633") or ("20180198312") or ("9692248") or ("20120225622") or ("20140065956")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 12:53
S1082	4	S1081 and gigabyte	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 12:54
S1083	33	S1081 and (highspeed or (high near speed))	US-PGPUB;	OR	OFF	2020/05/25 12:54

			USPAT; USOCR			
S1084	4	S1082 and S1083	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 12:54
S1085	4	S1083 and giga$4	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 12:55
S1086	1,963	A47B23/042.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 13:13
S1087	2,280	E05B73/0082,00,0005.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 13:13
S1088	1,135	E05B65/006,0067.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 13:13
S1089	513	E05B27/00.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 13:14
S1090	402	A47F3/002.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 13:14
S1091	558	A47F7/024.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 13:14
S1092	4,731	G06F21/86,88.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 13:14
S1093	12,769	g06f1/1656,1681.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 13:14
S1094	2,116	361/679.57-679.58.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 13:14

S1095	541	((("ALLEN") near3 ("Peter"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/05/25 13:15
S1096	74	(("20190281715") or ("10303216") or ("20200073438") or ("10067533") or ("20180252003") or ("20150098184") or ("20150116926") or ("20130206942") or ("9581291") or ("20150116927") or ("20200040615") or ("8619416") or ("20130088830") or ("9680532") or ("9891666") or ("20160320801") or ("20130049682") or ("20150270875") or ("9059591") or ("20150083885") or ("7573706") or ("20160062400") or ("9367091") or ("7894180") or ("20100073862") or ("7298611") or ("9036343") or ("9429994") or ("20080003860") or ("20080002351") or ("8179672") or ("7426108") or ("20080002352") or ("9434319") or ("20160193968") or ("20120224321") or ("9267638") or ("7583495") or ("7808779") or ("20080002355") or ("8882069") or ("20140069710") or ("7916467") or ("8986029") or ("20150237750") or ("20080002354") or ("20100134984") or ("7352567") or ("7508661") or ("7715187") or ("20080002353") or ("20130033807") or ("20080278899") or ("20100177476") or ("20140006669") or ("20070035917") or ("10061354") or ("7417855") or ("9845912") or ("7315453") or ("20180087710") or ("20170276289") or ("20080002345") or ("20080002369") or ("20180031172") or ("20130166808") or ("20130050933") or ("20180107248") or ("8241050") or ("8910990") or ("9074724") or ("8323040") or ("20110261509") or ("20100062615")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 13:16
S1097	6	("20020157431" | "20040261474" | "4978949" | "6212921" | "6216499" | "6742366").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/05/25 13:28
S1121	3	"20150138723"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/05 22:35
S1122	5	("20120242635" | "20180126704" | "20130177302" | "20180113241" | "20170003716").PN.	US-PGPUB;	OR	OFF	2020/06/08 09:48

			USPAT; USOCR			
S1123	14,836	((("SEO") near3 ("Youngmin")) OR (("LEE") near3 ("Youngsoo")) OR (("KIM") near3 ("Min")) OR (("KIM") near3 ("Yongha"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/06/08 10:54
S1124	14	(("20190025880") or ("20100044553") or ("20100044815") or ("20130177302") or ("20180321571") or ("20140176779") or ("8684613") or ("10018891") or ("20180126704") or ("20190158641") or ("10609191") or ("20200045155") or ("20190144332") or ("20200014415")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 10:55
S1125	25	(("20190025880") or ("20200014415") or ("20130177302") or ("20180321571") or ("20140176779") or ("8684613") or ("10018891") or ("20190158641") or ("20180126704") or ("10609191") or ("20190144332") or ("20100044553") or ("20200053896") or ("10551722") or ("20200177771") or ("9716815") or ("20130176484") or ("20190025673") or ("10133156") or ("D862407") or ("20100044815") or ("10386889") or ("20180249586") or ("10324496") or ("20200045155")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 10:55
S1126	1	"20190258294"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 11:33
S1127	293	(("20190258294") or ("20140192492") or ("9048665") or ("20160112086") or ("20140195180") or ("20140195826") or ("20140192481") or ("9912367") or ("9231410") or ("9774192") or ("20180150109") or ("9541965") or ("20190086963") or ("9886062") or ("20170038641") or ("20150248142") or ("20150196456") or ("20160109906") or ("9927650") or ("10496135") or ("9326912") or ("10579101") or ("10082829") or ("9946302") or ("9690328") or ("20140078412") or ("20160116941") or ("20190033913") or ("20140191724") or ("20140071081") or ("9811188") or ("20180196537") or ("9084357") or ("20160316574") or ("10248233") or ("20180052491") or ("10088865") or ("10503209") or ("20090284215") or ("9671823") or ("20190293484") or ("20160266672") or ("10073211") or ("20170222683") or ("9729187") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 11:34

		("9423830") or ("10289155") or ("20180074345") or ("20190335028") or ("20140361081") or ("9160189") or ("20180197463") or ("20190227593") or ("8844817") or ("10503204") or ("20140268519") or ("10299553") or ("8684613") or ("20170311465") or ("20140191034") or ("10133156") or ("20180247990") or ("20170271421") or ("9826652") or ("10304919") or ("20120052724") or ("9997576") or ("9876522") or ("20180321571") or ("20130177302") or ("20140196830") or ("8632363") or ("8243424") or ("9465458") or ("20110019123") or ("10139879") or ("8937689") or ("9590377") or ("20170228002") or ("20150248149") or ("20160133222") or ("20150116919") or ("9710033") or ("10613586") or ("20140176779") or ("20190107876") or ("20160119013") or ("9680518") or ("20180074553") or ("20110255850") or ("9983621") or ("10018891") or ("10185113") or ("20150365120") or ("9264088") or ("20190101960") or ("20150243937") or ("20130148031") or ("20190253539") or ("20110255250") or ("20130169590") or ("20140191033") or ("20180196560") or ("20190086760") or ("8910863") or ("20170154947") or ("20160327989") or ("10424632") or ("20190335027") or ("20200057525") or ("10564749") or ("9626024") or ("20190335026") or ("20160313768") or ("9964793") or ("10120515") or ("10241377") or ("10021798") or ("7957123") or ("9785299") or ("20160234949") or ("20100091439") or ("20150116268") or ("20170242290") or ("20150137734") or ("20130063885") or ("20170320532") or ("9819815") or ("20110176395") or ("9178374")).PN. or (("9578759") or ("20160353616") or ("8896995") or ("20150205184") or ("8305744") or ("9674965") or ("20150172431") or ("20190364680") or ("9286024") or ("10150527") or ("20110019354") or ("20190014672") or ("20110279961") or ("8824140") or ("8292493") or ("20180218859") or ("20190106173") or ("20160345449") or ("20120069517") or ("9439305") or ("20150016058") or ("9411213") or ("7907394") or ("20150111088") or ("9430077") or ("20180164749") or ("20090009945") or ("20160147264") or ("10320025") or ("20090196124") or ("20190288325") or ("9360696") or ("20160170250") or ("20120194974") or ("10116777") or ("10398043") or ("20170213872") or ("20160109852") or ("8922985") or ("10201089") or ("20130292281") or				

		("20180217668") or ("10656714") or ("9848494") or ("20170308188") or ("20140020947") or ("6094404") or ("20120037524") or ("7946758") or ("9516149") or ("20190333969") or ("20180249586") or ("20180217669") or ("10374018") or ("20170310353") or ("20180204884") or ("20100061055") or ("20150163940") or ("9906259") or ("20150349831") or ("20150378391") or ("20170034918") or ("20140160367") or ("20170023979") or ("10228729") or ("20180343332") or ("20180302994") or ("20180054897") or ("20200084310") or ("7869206") or ("20050174727") or ("20130176484") or ("7180735") or ("20180329367") or ("20170062528") or ("20130021280") or ("20150261254") or ("20190025673") or ("9614941") or ("10616387") or ("20140293169") or ("10551722") or ("20200093013") or ("20200014415") or ("20130083470") or ("8777002") or ("10325966") or ("20160141567") or ("9594402") or ("9153978") or ("20190296089") or ("7312984") or ("20190166235") or ("20070139873") or ("20150351168") or ("20130057785") or ("20200099002") or ("20180138937") or ("9402122") or ("7697281") or ("20100061040") or ("20100327737") or ("20170248922") or ("10289163") or ("10289158") or ("6399903") or ("10397382") or ("20150175333") or ("20030040781") or ("10180702") or ("10318021") or ("20170235341") or ("8476828") or ("9346403") or ("20140043740") or ("20100146766") or ("8250724") or ("20140211388") or ("20190121391") or ("20170177025") or ("8976512") or ("20120025766") or ("20100078343") or ("20190243492") or ("20180175322") or ("20150255740") or ("8929068") or ("20190265751")).PN. or (("20200052231") or ("20110090626") or ("8917496") or ("9781846") or ("20190138060") or ("8893373") or ("9213375") or ("9899626") or ("20200106062") or ("20170033287") or ("20150014214") or ("10394274") or ("20160157372") or ("20140211387") or ("9725359") or ("20170099074") or ("20130077221") or ("20190043928") or ("9116655") or ("9939850") or ("20170192462") or ("9735827") or ("20090059485") or ("20170164703") or ("20140063821") or ("20130002554") or ("6498951") or ("20160264054") or ("20160259377") or ("10044396") or ("9941475") or ("10419589") or				

		("20180059718") or ("9778685") or ("10261545")).PN.				
S1128	13	("20020044136" | "20030161093" | "20060198094" | "20080048971" | "20080137271" | "20080214250" | "5257164" | "6014552" | "6052279" | "6462938" | "6532152" | "6842333" | "7072624").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 11:39
S1129	267	haughton.xa.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 11:41
S1130	1,418	haughton.xp.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 11:41
S1131	1,685	S1129 S1130	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 11:41
S1132	10	S1131 and (glass near hous$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 11:42
S1133	0	S1132 and battery.ti.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 11:42
S1134	0	S1128 and (glass near3 hous$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 11:55
S1135	2	S1128 and (glass)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 11:55
S1136	12	S1131 and (glass near (cas$3 or hous$3 or enclosure$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 11:56
S1137	32	S1131 and (glass near3 (cas$3 or hous$3 or enclosure$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 12:00
S1138	20	S1137 not S1136	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 12:04

S1139	4,822	g06f1/1637.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 12:12
S1140	801	g06f1/1633.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 12:12
S1141	245	S1139 and (glass near3 hous$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 12:12
S1142	40	S1140 and (glass near3 hous$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 12:12
S1143	38	S1141 and ((curv$3) near3 (cas$3 or hous$3 or enclosure$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 12:13
S1144	15	S1142 and ((curv$3) near3 (cas$3 or hous$3 or enclosure$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 12:13
S1145	360	S1139 and (glass near3 (cas$3 or hous$3 or enclosure$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 12:13
S1146	53	S1140 and (glass near3 (cas$3 or hous$3 or enclosure$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 12:13
S1147	86	S1127 and (glass near3 hous$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 12:14
S1148	53	S1143 S1144	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 12:15
S1149	56	S1145 and ((curv$3) near3 (cas$3 or hous$3 or enclosure$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 12:16
S1150	93	S1123 and ((curv$3) near3 (cas$3 or hous$3 or enclosure$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 12:16

S1151	4	("2015/0043139").URPN.	USPAT	OR	OFF	2020/06/08 12:20
S1152	59	S1149 S1150	USPAT	OR	OFF	2020/06/08 12:29
S1153	44	S1152 not S1148	USPAT	OR	OFF	2020/06/08 12:29
S1154	0	S1139 and (crack-proof or (crack near proof))	USPAT	OR	OFF	2020/06/08 12:41
S1155	0	S1140 and (crack-proof or (crack near proof))	USPAT	OR	OFF	2020/06/08 12:41
S1156	0	(crack-proof or (crack near proof)) near3 paint	USPAT	OR	OFF	2020/06/08 12:41
S1157	0	(crack-proof or (crack near proof)) near5 paint	USPAT	OR	OFF	2020/06/08 12:41
S1158	1	(crack-proof or (crack near proof)) near5 paint	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 12:42
S1159	770	(crack) near5 paint	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 12:43
S1160	1	S1139 and ((crack) near2 paint)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 12:43
S1161	0	S1140 and ((crack) near2 paint)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 12:43
S1162	0	S1140 and ((crack$3) near2 paint)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 12:43
S1163	1	S1139 and ((crack$3) near2 paint)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 12:43

S1164	58	(crack-proof or (crack near proof))	USPAT	OR	OFF	2020/06/08 12:44
S1165	23	S1164 and glass	USPAT	OR	OFF	2020/06/08 12:44
S1166	2,043,154	S1165 an display$3	USPAT	OR	OFF	2020/06/08 12:44
S1167	2	S1165 and display$3	USPAT	OR	OFF	2020/06/08 12:45
S1168	50	((("LIN") near3 ("YI-CHING")) OR (("LEE") near3 ("TING-CHU"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/06/08 13:08
S1169	4,989	g06f1/1635,1641,1643,1652,1683.cpc.	USPAT	OR	OFF	2020/06/08 13:52
S1170	6,151	g06f1/263,26.cpc.	USPAT	OR	OFF	2020/06/08 13:52
S1171	20,043	((("YAMAZAKI") near3 ("Shunpei")) OR (("ISHIKAWA") near3 ("Jun"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/06/08 13:55
S1172	423	((("QUINN") near3 ("Liam")) OR (("ROBINETTE") near3 ("Christopher")) OR (("KNOPPERT") near3 ("Michiel"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/06/08 13:55
S1173	21	((("WAGGENER") near3 ("William"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	OFF	2020/06/08 13:59

			DERWENT			
S1174	20,842	g06f1/1616,1652,1656.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 14:10
S1175	7,824	361/679.21-679.3,679.55,679.56.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 14:10
S1176	61	(("20190129477") or ("20190132968") or ("20180099755") or ("20200039653") or ("10479510") or ("7724516") or ("20070236881") or ("10041792") or ("6253126") or ("20170191829") or ("5796612") or ("20050013340") or ("7290924") or ("20190309762") or ("3080717") or ("4358781") or ("20200080646") or ("10237926") or ("20200080440") or ("20170135161") or ("4015272") or ("3035607") or ("20190071995") or ("20060001721") or ("20080022652") or ("3224277") or ("3971510") or ("20080158324") or ("7354146") or ("20130340428") or ("2651434") or ("9068535") or ("20140311371") or ("20100096380") or ("9109864") or ("6450193") or ("8319155") or ("4059520") or ("3040520") or ("20160233471") or ("5942682") or ("4915669") or ("2473372") or ("4639196") or ("7806365") or ("20050248636") or ("3169003") or ("5940982") or ("10141554") or ("6206644") or ("2938658") or ("4155959") or ("7175267")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 14:17
S1177	248	(("20200042048") or ("20200042045") or ("10254803") or ("9983637") or ("20060125796") or ("10476011") or ("20190237685") or ("20110271597") or ("8647012") or ("20010005966") or ("20010005967") or ("20010050657") or ("6550209") or ("5787671") or ("6202379") or ("6463709") or ("10503207") or ("6433758") or ("5992120") or ("20190166703") or ("10296053") or ("20200042047") or ("10503215") or ("20200137908") or ("20070201199") or ("20160362918") or ("7239504") or ("7602606") or ("20150013107") or ("8938856") or ("20070201200") or ("20180253124") or ("9562380") or ("7631410") or ("10101774") or ("20090242233") or ("20060023408") or ("6798649") or ("10296052") or ("20200159290") or ("20200159293") or ("20200042046") or ("20170284457") or ("9420913") or ("20140326231") or ("10344797") or ("10143334") or ("20180324964") or ("10310556") or ("20190227598") or ("20170071400") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 14:17

		("9348450") or ("20150043136") or ("20190033920") or ("10466747") or ("20190086956") or ("7845877") or ("10120421") or ("20190018459") or ("20200133426") or ("9983620") or ("10082838") or ("20190033925") or ("10429903") or ("20180032109") or ("20080075529") or ("8483784") or ("20200159289") or ("20200064892") or ("20200042042") or ("10592051") or ("20110151947") or ("20200133339") or ("10061359") or ("20180220537") or ("20050002158") or ("20190292827") or ("20190380218") or ("20180077810") or ("20200080357") or ("20200166969") or ("20200015370") or ("20180270971") or ("20130286562") or ("9992888") or ("20200010126") or ("10564682") or ("20200166971") or ("10440838") or ("10433438") or ("10292280") or ("20200163239") or ("20170347466") or ("20170361881") or ("9192061") or ("10290240") or ("20200159336") or ("20180056741") or ("20080122736") or ("20140034793") or ("20200097050") or ("7310072") or ("8870140") or ("20020190923") or ("20200178410") or ("10471787") or ("9204565") or ("9983627") or ("6421031") or ("6683584") or ("5594619") or ("8040292") or ("20090036181") or ("5410447") or ("8561955") or ("5268817") or ("20020163486") or ("20110263304") or ("20180113491") or ("20160138752") or ("8374658") or ("20160316575") or ("5481430") or ("20170131741") or ("9371956") or ("10352354") or ("8860632") or ("20100085274") or ("10079270") or ("9720447")).PN. or (("20200170327") or ("20080055832") or ("20100171014") or ("20190029135") or ("20190019846") or ("10066429") or ("20170196329") or ("20120037285") or ("20120217766") or ("10664012") or ("9156392") or ("20190021465") or ("8336142") or ("6452572") or ("20160169441") or ("20200117284") or ("5815126") or ("20120113614") or ("20180275725") or ("8804317") or ("9739414") or ("20170061836") or ("20150052854") or ("10274997") or ("6149021") or ("9783978") or ("20090231785") or ("9786207") or ("20110050541") or ("20170365197") or ("8312991") or ("8947870") or ("10085531") or ("20060030381") or ("20130075281") or ("9603425") or ("7623342") or ("20160031493") or ("9944235") or ("10032391") or ("20150346770") or ("10015897") or ("4208028") or ("9400523") or ("7367638") or ("20160113453") or ("8875879") or ("7194840") or ("20160146529") or				

		("20130258586") or ("7404236") or ("10429904") or ("20190107245") or ("10495254") or ("10082839") or ("20130163158") or ("20190018458") or ("20120328222") or ("20150296946") or ("20100039758") or ("20200110241") or ("7478889") or ("20100079355") or ("7995332") or ("8836611") or ("5261735") or ("20150136928") or ("10491725") or ("8713757") or ("20090045636") or ("20060191104") or ("20060267466") or ("20040250381") or ("20200092405") or ("20100285852") or ("20200162595") or ("9451818") or ("9931581") or ("20170255232") or ("20130098782") or ("20180275717") or ("20180088630") or ("20160085265") or ("20170123455") or ("20190306985") or ("20190369668") or ("20110192839") or ("9845117") or ("10006196") or ("20150212546") or ("20160021769") or ("20160124466") or ("7188391") or ("20160320797") or ("10457338") or ("10101075") or ("7140074") or ("20130309941") or ("20200022269") or ("9964995") or ("20060082518") or ("10480225") or ("8338767") or ("20170129550") or ("20120017961") or ("20120037523") or ("20100288170") or ("9600035") or ("20060101718") or ("10601967") or ("9009984") or ("20150275557") or ("10133303") or ("10234191") or ("20050200251") or ("20120223872") or ("20090102744") or ("20060268501")).PN.				
S1178	280	(("10613586") or ("20180074553") or ("10481638") or ("20170139442") or ("20200117241") or ("20170038641") or ("20180375976") or ("10334090") or ("20180213663") or ("20180077810") or ("10433438") or ("20190380218") or ("9992888") or ("9253294") or ("20180210495") or ("20180270971") or ("20120092815") or ("10383241") or ("10452097") or ("20140187296") or ("9319497") or ("20180375975") or ("20180210512") or ("20130120912") or ("20070149260") or ("10274996") or ("10244088") or ("20190258295") or ("10488887") or ("20190163241") or ("20180210497") or ("10528079") or ("10627868") or ("20180210511") or ("10394276") or ("20180059721") or ("7711112") or ("20050177978") or ("20150248149") or ("20180095502") or ("10268245") or ("9710033") or ("20140340829") or ("7289627") or ("10139879") or ("20170228002") or ("20190107876") or ("20140211108") or ("20180210496") or ("10416726") or ("8405978") or ("20120218690") or ("9887722") or ("20170099072") or ("10268237") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 14:18

		("20130176668") or ("8755181") or ("20170295654") or ("10104788") or ("20100151923") or ("20180210510") or ("20200060020") or ("20180210513") or ("10268244") or ("8204560") or ("20160202727") or ("20190212781") or ("20190394894") or ("20040127266") or ("6839576") or ("20130314611") or ("8331996") or ("20150062927") or ("9729683") or ("9460643") or ("20080044007") or ("20200137908") or ("20160094691") or ("20190004764") or ("20060148540") or ("20130083463") or ("7796749") or ("20050264460") or ("10602623") or ("9363913") or ("10606318") or ("7269255") or ("20190369668") or ("20120218732") or ("7262736") or ("20190166703") or ("20120218691") or ("20140355210") or ("10228729") or ("20200043382") or ("20090061961") or ("20170023979") or ("10271438") or ("7719609") or ("20170006716") or ("20120218692") or ("20120206896") or ("20120194984") or ("8867200") or ("20120275099") or ("20190069451") or ("20090104949") or ("20190361502") or ("20020107055") or ("10318061") or ("20120212924") or ("20120275126") or ("20190261519") or ("20200100372") or ("20180324964") or ("20140355196") or ("9274557") or ("20120162048") or ("10170524") or ("8902129") or ("9007780") or ("20160307969") or ("20130286299") or ("20150055286") or ("9377817") or ("8369097") or ("8019394") or ("20200068054")).PN. or (("20090005131") or ("20160130849") or ("20200117245") or ("20130155598") or ("10041282") or ("20150378399") or ("10000954") or ("20110310572") or ("10606541") or ("20130257712") or ("9497697") or ("20200170128") or ("6549789") or ("20180242446") or ("20130077236") or ("20180039471") or ("20020016182") or ("20180110139") or ("20190223301") or ("20100222111") or ("20190354144") or ("10104787") or ("9785198") or ("10306783") or ("20130100601") or ("9507376") or ("20180077806") or ("10531583") or ("20170346164") or ("20190354138") or ("20190005857") or ("20040252220") or ("10629982") or ("20050215296") or ("20180068609") or ("10139660") or ("9918395") or ("8711554") or ("20190163007") or ("6633749") or ("8275421") or ("10431129") or ("20150062525") or ("20190018454") or ("10514877") or				

		("20170227807") or ("10613362") or ("20110164363") or ("20120147535") or ("10571962") or ("9823701") or ("20160252934") or ("20090221335") or ("20130286297") or ("9274552") or ("20140328041") or ("9504170") or ("20190011955") or ("7599720") or ("9904501") or ("20190053388") or ("20200174646") or ("8180418") or ("20130135837") or ("8842424") or ("20200117233") or ("7667962") or ("9582043") or ("20140126133") or ("10082829") or ("20050225952") or ("10180704") or ("20160048165") or ("20180181361") or ("20200135419") or ("20180260072") or ("20130076597") or ("20140126121") or ("20140123436") or ("20190033913") or ("8971032") or ("20160116941") or ("9645607") or ("9013864") or ("20200136231") or ("9983637") or ("20160116943") or ("20180046225") or ("20170185104") or ("20190339745") or ("9964989") or ("20130335644") or ("8279592") or ("20060061555") or ("20160062414") or ("20150305173") or ("6917824") or ("9176701") or ("9927845") or ("20190339739") or ("20060229116") or ("20020173281") or ("20130083467") or ("9575513") or ("20190364682") or ("20110285647") or ("20130088447") or ("20050282593") or ("20140226272") or ("20060046792") or ("20180356864") or ("10394277") or ("20180335800") or ("20180188780") or ("8947863") or ("9690385") or ("20160062484") or ("20140313426") or ("7142898") or ("20140293525") or ("20120229686") or ("9363459") or ("20200051468") or ("10588228") or ("9377807") or ("9280181") or ("10146267") or ("20140254077")).PN. or (("20130082955") or ("10459493") or ("9851751") or ("20100234073") or ("20060058079") or ("20160170444") or ("9317243") or ("20170147032") or ("20170142241") or ("7321789") or ("20130286562") or ("20170126983") or ("20050158617") or ("8766921") or ("20120162951") or ("20150229844") or ("20170315589") or ("9286024") or ("10075569") or ("10264184") or ("20190007533") or ("20130083464") or ("20180188774") or ("20170364118")).PN.				
S1179	1,638	g06f1/182.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 14:25

S1180	2,924	B64D45/00.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 14:25
S1181	0	B64D435/00.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 14:26
S1182	5,563	H05K5/0213,0217,0247.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 14:26
S1183	230	B64D2045/0065.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/08 14:26
S1191	2	"20090247237"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/15 16:31
S1192	1	"8333355".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/16 09:14
S1193	1	"9059505".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/17 14:06
S1194	13	("20020044136" | "20030161093" | "20060198094" | "20080048971" | "20080137271" | "20080214250" | "5257164" | "6014552" | "6052279" | "6462938" | "6532152" | "6842333" | "7072624").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 01:04
S1195	13	("20020044136" | "20030161093" | "20060198094" | "20080048971" | "20080137271" | "20080214250" | "5257164" | "6014552" | "6052279" | "6462938" | "6532152" | "6842333" | "7072624").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 01:19
S1196	4	S1195 AND SNAP	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 01:20
S1197	6	S1195 AND METAL	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 01:20
S1198	2	S1196 AND S1197	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 01:20

S1199	3	("20180143669" | "20180150153" | "20180188874").PN.	US-PGPUB; USPAT	OR	OFF	2020/06/22 10:29
S1200	9	("20130307788" | "20140253477" | "20060197753" | "20060284858" | "20150153887" | "20160103544" | "20110227836" | "20170371470" | "20150363019").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 10:51
S1201	10	("20040206190" | "5008497" | "20150324056" | "20140253477" | "20160147375" | "20040119676" | "9435939" | "20060190836" | "20020196238" | "20170357440").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 11:01
S1202	5	("20100127992" | "20150185911" | "20100127992" | "20150331451" | "20160364057" | "20060238517" | "20150185911" | "20150331451" | "20060238517").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 11:02
S1203	15	S1201 S1202	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 11:03
S1204	452	("2006/0238517").URPN.	USPAT	OR	OFF	2020/06/22 11:15
S1205	160	((("LEE") near3 ("Choonhyop")) OR (("LEE") near3 ("Kangwon")) OR (("LEE") near3 ("Sangchul")) OR (("CHUNG") near3 ("Seunghwan"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/06/22 11:17
S1206	8,731	G06F3/04142,0445,0443,04144,0414,041.CPC.	USPAT	OR	OFF	2020/06/22 11:20
S1207	8,049	S1206 AND DISPLAY	USPAT	OR	OFF	2020/06/22 11:21
S1208	1,445	S1207 AND (PRESSURE NEAR SENSOR$1)	USPAT	OR	OFF	2020/06/22 11:25
S1209	13,204	G06F1/1601,1613,1626,1633,1652,1694,1692,1684,1643.CPC.	USPAT	OR	OFF	2020/06/22 11:25
S1210	12,070	S1209 AND DISPLAY	USPAT	OR	OFF	2020/06/22 11:25

S1211	1,211	S1210 AND (PRESSURE NEAR SENSOR$1)	USPAT	OR	OFF	2020/06/22 11:25
S1212	212	S1208 AND (DISPLAY NEAR5 ((PERIPHERAL NEAR EDGE) OR (EDGE)))	USPAT	OR	OFF	2020/06/22 11:30
S1213	291	S1211 AND (DISPLAY NEAR5 ((PERIPHERAL NEAR EDGE) OR (EDGE)))	USPAT	OR	OFF	2020/06/22 11:30
S1214	400	S1212 S1213	USPAT	OR	OFF	2020/06/22 11:35
S1215	0	G01L1/146.CPC	USPAT	OR	OFF	2020/06/22 11:35
S1216	231	G01L1/146.CPC.	USPAT	OR	OFF	2020/06/22 11:35
S1217	97	S1216 AND DISPLAY	USPAT	OR	OFF	2020/06/22 11:36
S1218	13,441	G06F1/1624,1626,163,1639,1647,1652,1666,1671,1694.CPC.	USPAT	OR	OFF	2020/06/22 11:39
S1219	11,442	G06F3/011,014,0202,0221,045.CPC.	USPAT	OR	OFF	2020/06/22 11:39
S1220	391	((("MULLEN") near3 ("Jeffrey"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/06/22 11:42
S1221	0	"20190004651"	USPAT	OR	OFF	2020/06/22 11:54
S1222	1	("20190004651").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 11:54
S1223	495	(("20190004651") or ("9201105") or ("20130234734") or ("20200057545") or ("20190340959") or ("20200185643") or ("20200160020") or ("20180004333") or ("10261616") or ("20190107866") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 11:58

		("20190339741") or ("20190317621") or ("20190325188") or ("20190346957") or ("10678365") or ("20170345949") or ("20190373719") or ("20200194724") or ("20200137900") or ("20110037726") or ("20190363277") or ("20200057522") or ("20180138440") or ("20160209284") or ("10535837") or ("8988364") or ("10608024") or ("10185376") or ("20170003723") or ("20200174526") or ("20180328799") or ("20190259819") or ("20170301314") or ("20180286924") or ("10254184") or ("10355059") or ("20180277798") or ("20170372123") or ("10685626") or ("20190243496") or ("10411224") or ("10170505") or ("20200133407") or ("20180166507") or ("20170352692") or ("20180321780") or ("20180307361") or ("10585513") or ("20200091461") or ("20190172855") or ("20180326456") or ("20190391432") or ("20200185641") or ("10483491") or ("20200135063") or ("20200022261") or ("20170263888") or ("20180259388") or ("20170155084") or ("20180284512") or ("20200066802") or ("20190095005") or ("20190296259") or ("20200163243") or ("20200057523") or ("10008695") or ("10488693") or ("20180288202") or ("20160147264") or ("20160079663") or ("9812768") or ("20200175901") or ("20190163003") or ("10116777") or ("20200089368") or ("20190326367") or ("20200194516") or ("20200051810") or ("20170287992") or ("20140368747") or ("20170323779") or ("9049409") or ("20200042043") or ("20190317629") or ("20170374752") or ("10483098") or ("20200042125") or ("20150237182") or ("9332096") or ("10470319") or ("20190082084") or ("10268086") or ("20200075895") or ("20190355927") or ("9736956") or ("20180164619") or ("20200056955") or ("20200042133") or ("20160033347") or ("9664576") or ("20200194730") or ("20190012007") or ("20180031880") or ("20190018454") or ("20200022267") or ("20190369778") or ("10635212") or ("20140267990") or ("20190246018") or ("20190061318") or ("20200111994") or ("20200057467") or ("20180329558") or ("20140376165") or ("20190073001") or ("10522785") or ("20190303640") or ("20180166652") or ("10409433") or ("20180033834") or ("20140367644") or				

		("9029846") or ("10276639") or ("20180287092")).PN. or (("20160029511") or ("10312299") or ("20170024049") or ("9800700") or ("10644258") or ("20190229156") or ("20180032107") or ("20150241287") or ("20190165325") or ("10599186") or ("10366272") or ("20170300736") or ("20190012029") or ("20180150670") or ("20170090637") or ("10579847") or ("10175804") or ("20190302850") or ("20190386243") or ("20170372114") or ("20160005778") or ("20180011585") or ("20190311172") or ("10462913") or ("20190227603") or ("20170049000") or ("10143095") or ("20190121465") or ("20170168621") or ("10261545") or ("20170318690") or ("10481713") or ("20190306986") or ("10206490") or ("20170285785") or ("20190196550") or ("9614941") or ("20150163940") or ("20170192462") or ("20180110137") or ("20170202096") or ("9965079") or ("20170242543") or ("10572041") or ("20160098109") or ("9864449") or ("9730344") or ("10114411") or ("20200043991") or ("20190346887") or ("9652098") or ("10396434") or ("20180300006") or ("20150365508") or ("20170003782") or ("20160282999") or ("20170207516") or ("20180275004") or ("20180069053") or ("20190251927") or ("10409430") or ("10620668") or ("9524070") or ("20190294213") or ("20190387632") or ("20190348475") or ("20180266910") or ("20180282148") or ("20190019450") or ("20200058711") or ("20200163231") or ("20200159358") or ("20150090041") or ("8094134") or ("20110115738") or ("20190025637") or ("20190272058") or ("20180088392") or ("20190278411") or ("9664581") or ("20190334114") or ("20180063981") or ("20170269758") or ("20200110525") or ("20120182249") or ("20180203562") or ("20180308903") or ("20200159285") or ("20180329498") or ("10634943") or ("20200168157") or ("20200159369") or ("20170030789") or ("10598981") or ("20190143638") or ("20180033979") or ("20200196496") or ("10230063") or ("20190305073") or ("9715302") or ("20200035950") or ("20190114004") or ("8698777") or ("20170277317") or ("20190148672") or ("20200042132") or ("10338720") or ("20170220174") or ("10454067") or ("20200026422") or ("10162445") or				

		("20200159359") or ("20160093685") or ("20180267673") or ("20160370908") or ("20200057507") or ("9425418") or ("10018527") or ("20200168672") or ("20130222754") or ("10431635") or ("9812659") or ("20190064204") or ("20190051705") or ("20190130822")).PN. or (("20150219941") or ("10620745") or ("20160336523") or ("20190006615") or ("20150369682") or ("20110260989") or ("20190034020") or ("20190267497") or ("20160147263") or ("9354464") or ("20180061893") or ("20200075437") or ("9681567") or ("20170059605") or ("20200183450") or ("20190296266") or ("20180090713") or ("10228269") or ("10147772") or ("20160328078") or ("20190334118") or ("20170062756") or ("10374191") or ("20190017892") or ("20150009632") or ("9720450") or ("20170285803") or ("10361254") or ("9847506") or ("20200130324") or ("20160268546") or ("8976319") or ("10096792") or ("20180033832") or ("20190051861") or ("8582047") or ("20200065542") or ("20200053897") or ("20190036069") or ("10586944") or ("20060202318") or ("20200174295") or ("20100033647") or ("10615366") or ("20160062516") or ("10289226") or ("20190171254") or ("10229963") or ("20160337561") or ("20180097199") or ("20170358772") or ("20170263887") or ("20160328067") or ("10411219") or ("20170344165") or ("9935281") or ("20180278815") or ("20180062090") or ("20170064845") or ("20200160761") or ("20180072022") or ("8456586") or ("10522783") or ("20190363295") or ("20180321784") or ("20190350092") or ("20150200186") or ("20200045155") or ("20170199217") or ("20200136066") or ("20140267760") or ("10599019") or ("20110084118") or ("20190165056") or ("20180248150") or ("8704961") or ("20180267390") or ("20180113554") or ("20170324058") or ("10009523") or ("20190057992") or ("10658615") or ("10375839") or ("20180356304") or ("20130050126") or ("9911942") or ("8033446") or ("7443028") or ("20180198089") or ("9360977") or ("10602036") or ("20180129317") or ("20140116762") or ("9996201") or ("10459548") or ("20180348943") or ("20140369013") or ("20200064968") or ("20180159067") or ("10488970") or ("20150212626") or ("20170089789") or ("20200150845") or				

		("20130307094") or ("8958152") or ("20160358997") or ("9386703") or ("20180151845") or ("8829361") or ("20180307346") or ("10481729") or ("20200033970") or ("9831300") or ("9985086") or ("20190334105") or ("10557759") or ("20180329497") or ("10164209") or ("20150116975") or ("10141540") or ("10614202") or ("20130250520") or ("10347864") or ("20180284935") or ("20140362045") or ("10474290") or ("10600830")).PN. or (("20120062996") or ("9576877") or ("10509439") or ("20070107522") or ("20180032105") or ("10411205") or ("10353432") or ("20180062094") or ("20190074328") or ("9231119") or ("20180149899") or ("20170237025") or ("20200064959") or ("9273914") or ("20190081271") or ("20170177160") or ("20190155081") or ("9748322") or ("20200012136") or ("10361385") or ("20160240602") or ("20170153476") or ("10068960") or ("10496228") or ("20150220196") or ("20170308212") or ("20190273212") or ("8878803") or ("20170323934") or ("20170179215") or ("9653523") or ("9525011") or ("9960213") or ("10686148") or ("20080264172") or ("20160327821") or ("20160218091") or ("20200174646") or ("20170192596") or ("10115913") or ("10289225") or ("20200042131") or ("20170294609") or ("20150002758") or ("20160062391") or ("20190294214") or ("20200046235") or ("9464952") or ("7353710") or ("20180188838") or ("20190339746") or ("9349758") or ("20170024038") or ("20160093644") or ("20170277306") or ("9806066") or ("20190302924") or ("9696828") or ("10209819") or ("10355237") or ("20130163277") or ("20170245032") or ("10476013") or ("20190332218") or ("10631378") or ("20180123060") or ("9423904") or ("9643384") or ("20140182390") or ("20180122863") or ("9022630") or ("20160227653") or ("20190101784") or ("9606391") or ("10356498") or ("20190302843") or ("20190227212") or ("10593737") or ("10394398") or ("20190227269") or ("9989995") or ("20190251325") or ("20170212613") or ("20190384441") or ("20170338286") or ("20150017417") or ("10474303") or ("20180074326") or ("10324493") or ("20200052051") or ("20160321442") or ("20190073505") or ("20170168265") or ("20180275719") or ("9921424") or ("20070045757") or ("20170271616") or				

		("20180260055") or ("20150311260") or ("20100202077") or ("20160299527") or ("20180149786") or ("10338353") or ("20180242915") or ("10551538") or ("9786248") or ("20200045826") or ("20170347474") or ("9793512") or ("20190009498") or ("10228581") or ("20180011575") or ("20180033830") or ("20200106057") or ("20190378455") or ("20180252607") or ("20180219165") or ("20170217755") or ("20190019926")).PN.				
S1224	2	"20140253477"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 12:09
S1225	4,731	h05k7/20572,20581,20645,20736,20754,1488,20745,20754.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 12:34
S1226	4,603	312/223.1-223.3.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 12:34
S1227	2,163	454/184.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 12:34
S1228	9,851	361/679.48-679.51,679.46,692,690,688,724-727.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 12:35
S1229	1,458	((("LEWIS") near3 ("Richard")) OR (("VANLITH") near3 ("Dennis"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/06/22 12:36
S1230	78	(("20200187387") or ("20200113074") or ("20180263127") or ("10440847") or ("20120194999") or ("8737068") or ("8107238") or ("9119329") or ("20090190307") or ("7804685") or ("20100061059") or ("20190075685") or ("20140334099") or ("20110019362") or ("10334761") or ("8040673") or ("20120013229") or ("20150351289") or ("10568239") or ("20190313551") or ("10624232") or ("20180042143") or ("10123462") or ("20150065028") or ("9801309") or ("7542287") or ("20070064389") or ("9974198") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 12:38

		("20150319872") or ("20110287704") or ("20140323029") or ("8730665") or ("9084369") or ("20070064391") or ("20160302317") or ("20090239461") or ("7952869") or ("20080316703") or ("7746637") or ("20090129013") or ("7697285") or ("8405984") or ("20110148261") or ("20080316702") or ("7839635") or ("20190073004") or ("7438638") or ("20090227197") or ("10133320") or ("6785145") or ("10212851") or ("20100172093") or ("7894190") or ("6104608") or ("20170127569") or ("7957139") or ("20100172092") or ("4535386") or ("20030072648") or ("6802690") or ("4506655") or ("10548244") or ("20170127568") or ("1949379") or ("2814243") or ("3018642") or ("4646817") or ("4186727") or ("20160135329") or ("7707840") or ("3218953") or ("8087979") or ("20070202792") or ("20070129000")).PN.				
S1231	8	("9210831" | "9420728" | "9437523" | "9622380" | "9638477" | "9693488" | "9713285" | "9950628").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 12:44
S1232	6	("20150138723" | "5349498" | "5453911" | "6196307" | "9693488" | "9901013").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 12:44
S1233	3	"20150138723"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 12:57
S1234	1	"9693488".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 12:57
S1235	4	S1233 S1234	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 12:57
S1236	3	("20130250503" | "6137675" | "6421031").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 13:24
S1237	3,086	G02B27/0176.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 13:50
S1238	19,341	g06f1/163,1632,1658.CPC.	US-PGPUB;	OR	OFF	2020/06/22 13:50

			USPAT; USOCR			
S1239	379	((("OSTERHOUT") near3 ("Ralph")) OR (("LOHSE") near3 ("Robert"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/06/22 13:51
S1240	6	(("6359777") or ("10466491") or ("20170351098") or ("20160349520") or ("10191289") or ("9436009")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 13:52
S1241	1,226	(("6359777") or ("10466491") or ("20170351098") or ("20160349520") or ("10191289") or ("9436009") or ("20170242805") or ("20140218269") or ("20170251561") or ("20150223355") or ("9668367") or ("10561035") or ("20190113774") or ("20200170131") or ("20150133204") or ("9288295") or ("5572401") or ("6008985") or ("6452572") or ("20020163486") or ("20150220172") or ("20080122736") or ("5815126") or ("7310072") or ("20020190923") or ("20030002243") or ("8040292") or ("9472964") or ("20130069431") or ("5864481") or ("20200183190") or ("6683584") or ("6421031") or ("8477238") or ("20160262717") or ("20070021073") or ("20140070957") or ("20130128110") or ("6496892") or ("9282893") or ("20150195432") or ("20170319132") or ("9423842") or ("20160370606") or ("20130089214") or ("8848940") or ("20130110415") or ("20130258270") or ("20180321097") or ("6033257") or ("20130158724") or ("10025119") or ("20160147086") or ("10024743") or ("20160085278") or ("20130110017") or ("9291823") or ("20010019914") or ("9261701") or ("20130109913") or ("20180303190") or ("7065381") or ("20170171371") or ("20010036840") or ("9019397") or ("20170031395") or ("8265797") or ("9114056") or ("10520996") or ("9681028") or ("10116776") or ("20030198015") or ("20190260862") or ("20140320696") or ("6498729") or ("9766482") or ("20140270687") or ("9672210") or ("20100165188") or ("8773581") or ("20180091707") or ("8525925") or ("20130250503") or ("20140002725") or ("20130308266") or ("6246575") or ("10437070") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 13:53

		("9651787") or ("20070026695") or ("8971023") or ("20190266247") or ("6249427") or ("20170337187") or ("20150309995") or ("6183289") or ("20180059434") or ("20140355206") or ("20150296104") or ("20140337621") or ("20150346496") or ("10146772") or ("10365493") or ("20150040282") or ("20020022499") or ("9712728") or ("8948839") or ("20170196513") or ("10634922") or ("20130264919") or ("9817440") or ("20070279852") or ("6757551") or ("20180063627") or ("7618260") or ("20170219831") or ("20190250411") or ("20150358543") or ("20100241799") or ("8945328") or ("20140318699") or ("20130232298") or ("9612140") or ("20160085092") or ("20090149037") or ("7753685") or ("9807490") or ("9986771") or ("20050267641") or ("9720260") or ("10321217")).PN. or (("20180376586") or ("10258092") or ("10288908") or ("20030154291") or ("20150143601") or ("10045439") or ("5555490") or ("20180011344") or ("8995137") or ("20090149036") or ("8446729") or ("20180067516") or ("10466492") or ("10101588") or ("20100145531") or ("10271031") or ("20150309534") or ("20090117753") or ("20130077043") or ("7731517") or ("7640079") or ("20140153173") or ("20080288117") or ("20150288942") or ("20120151098") or ("7462035") or ("7658612") or ("7844369") or ("20180068645") or ("20190259359") or ("20170227778") or ("20050165323") or ("20100100247") or ("10276138") or ("9740239") or ("10462898") or ("9348338") or ("20190132948") or ("20200018975") or ("20130176626") or ("20160235020") or ("6157533") or ("20130271905") or ("7996115") or ("20100224052") or ("20090306485") or ("20200068708") or ("20070105404") or ("20180217382") or ("20200081247") or ("9155924") or ("5774338") or ("20180228099") or ("8309835") or ("7239509") or ("6369952") or ("20180368505") or ("20160363957") or ("20100283711") or ("4719696") or ("20190079302") or ("7844367") or ("20040102931") or ("5768100") or ("6118663") or ("7608776") or ("10159430") or ("20050126378") or ("9560324") or ("20080027587") or ("20110040415") or ("20110270449") or ("20190261888") or ("6097607") or ("20140120839") or ("10582673") or ("20160135390") or ("10613336") or				

		("20130047824") or ("20140249684") or ("20110090633") or ("20130182389") or ("8716585") or ("8417390") or ("20150016035") or ("5581492") or ("9405338") or ("9392851") or ("7670263") or ("8738188") or ("9442522") or ("20180228098") or ("20080143954") or ("5491651") or ("20150254199") or ("20120173732") or ("20130190935") or ("7556532") or ("20090024359") or ("20110051982") or ("20140120983") or ("20140116085") or ("20140109753") or ("9265310") or ("7810750") or ("20160324442") or ("20130249776") or ("20100062740") or ("20160357021") or ("8520860") or ("20170307880") or ("20130190908") or ("9619201") or ("9450363") or ("20020145849") or ("9824672") or ("9091852") or ("20140028968") or ("20130226321") or ("9547313") or ("20140078462") or ("20130090062") or ("6167413") or ("20160377891") or ("20190105784") or ("20140229025") or ("20140139407") or ("20150093937") or ("20150009102")).PN. or (("8251875") or ("8694136") or ("10663941") or ("8652009") or ("8540363") or ("20170090448") or ("10025284") or ("20170227793") or ("20180284457") or ("8810482") or ("20140088739") or ("8827869") or ("20080062625") or ("20180314223") or ("20140253868") or ("9885871") or ("5949644") or ("9354446") or ("20050126372") or ("8244404") or ("20160346609") or ("20100053867") or ("20150146300") or ("20050126364") or ("20140097967") or ("8313416") or ("20100059561") or ("6507486") or ("20090063895") or ("9355573") or ("7444207") or ("5544008") or ("20100056341") or ("9606375") or ("20100057951") or ("4807759") or ("20160250752") or ("20190098392") or ("10466510") or ("10391631") or ("20120105740") or ("20110040416") or ("10642050") or ("8977205") or ("20170361162") or ("20170143977") or ("6324607") or ("20050273205") or ("20170173787") or ("20070183616") or ("20100056876") or ("20180219404") or ("7732702") or ("7417185") or ("20130285886") or ("10293208") or ("9586318") or ("9724562") or ("4672510") or ("9529197") or ("9316836") or ("9088848") or ("10015577") or ("10539788") or ("20160106370") or ("7909737") or ("8740752") or ("20190041901") or ("9554751") or ("20180067340") or ("7773767") or ("20170251315") or ("10048724") or ("7905815") or ("20110261176") or ("20020188216") or				

		("20160019423") or ("20180217798") or ("7931562") or ("20130238106") or ("20160321915") or ("20140104075") or ("6976111") or ("20150066173") or ("10120646") or ("20160271450") or ("20160275814") or ("20150365757") or ("20150105883") or ("20170259167") or ("20170068270") or ("10579135") or ("20130211563") or ("6560029") or ("20100056340") or ("20130184843") or ("20100057803") or ("8814755") or ("6301367") or ("9983007") or ("9812003") or ("20020186180") or ("20150157079") or ("20080319585") or ("20150253574") or ("9417660") or ("20140100677") or ("20150130355") or ("20150151182") or ("9546871") or ("9711062") or ("20190145774") or ("20190078890") or ("8858399") or ("20130253819") or ("20180014105") or ("9478148") or ("20130190907") or ("6137675") or ("9788587") or ("8696520") or ("20160133142") or ("20160088382") or ("20120099262") or ("20200170204") or ("20180365492") or ("8579767") or ("20180227412") or ("20190078891") or ("20160107033")).PN. or (("20150105884") or ("9723391") or ("20130184841") or ("20180329234") or ("10598960") or ("6798391") or ("20160282119") or ("20150378180") or ("9251719") or ("20180017815") or ("20180180895") or ("9122083") or ("9478149") or ("20140094941") or ("20160277649") or ("9679494") or ("20100328713") or ("20160114214") or ("8092345") or ("8923998") or ("20190078892") or ("20110021930") or ("10060745") or ("20160277052") or ("20150141202") or ("8795137") or ("20180295895") or ("20160129309") or ("10356291") or ("9767709") or ("10114235") or ("10082396") or ("10021474") or ("9683847") or ("20150085059") or ("20190037955") or ("9489863") or ("9891665") or ("20140088740") or ("20160342176") or ("20170149958") or ("20130190906") or ("20030148672") or ("8699220") or ("20160038083") or ("9415267") or ("20150248844") or ("20180061224") or ("9554447") or ("20020084990") or ("20120079075") or ("8652010") or ("20130215374") or ("6956614") or ("9122082") or ("8894548") or ("9819850") or ("20180249133") or ("8902315") or ("8657723") or ("20080144854") or ("10477168") or ("20180220110") or ("9401098") or ("20070248238") or ("20190268706") or ("8725276") or ("20120220234") or				

		("20060057972") or ("20190221975") or ("20150157220") or ("20160027328") or ("9973621") or ("8721502") or ("20100144239") or ("20180180894") or ("20120210489") or ("10616534") or ("20090154719") or ("7640007") or ("20140204529") or ("20150237424") or ("9141145") or ("10043380") or ("20080170838") or ("9880731") or ("9860352") or ("20050134683") or ("20160269812") or ("20170123495") or ("20050164684") or ("8094850") or ("20070223766") or ("5991085") or ("8371893") or ("20140107817") or ("20070126872") or ("20190268703") or ("20190011699") or ("20130130585") or ("20130294740") or ("20150269866") or ("6430644") or ("9589480") or ("20190133464") or ("5625534") or ("20190261874") or ("9351060") or ("9785187") or ("20160041582") or ("6899539") or ("6418499") or ("20160277824") or ("20160291637") or ("10278592") or ("20170366785") or ("9794679") or ("20190268705") or ("20120331201") or ("20070184881") or ("20020108009") or ("20170248991") or ("8878454") or ("20130147963") or ("20180095299") or ("20100239115") or ("20190325722") or ("20180130325") or ("9998817") or ("6285757")).PN. or (("10324539") or ("10638635") or ("20150351704") or ("5430607") or ("10378858") or ("9847002") or ("5224019") or ("8517788") or ("10354504") or ("5430617") or ("20090261214") or ("9113129") or ("8531592") or ("7885419") or ("20160269819") or ("20180059810") or ("8968156") or ("5798907") or ("20070126871") or ("10105845") or ("9456785") or ("20180184735") or ("20110116672") or ("9153112") or ("6108197") or ("20040008158") or ("20130232742") or ("20160365064") or ("20170363874") or ("10659859") or ("20180332384") or ("20060164891") or ("7343439") or ("20190268680") or ("10034079") or ("10416479") or ("7350008") or ("9829725") or ("20190183430") or ("20070067536") or ("20170328677") or ("9426339") or ("8842849") or ("8857681") or ("20020081895") or ("20050052343") or ("6076124") or ("20140350722") or ("9883275") or ("10168555") or ("5253133") or ("20160163283") or ("20160327799") or ("20150088224") or ("20100079356") or ("20180081201") or ("20190313249") or ("8860584") or ("20190339042") or ("20150340891") or ("20150198811") or ("20130249709") or ("9440070") or ("20180131847") or ("20190174208") or ("20160085076") or				

		("20170192516") or ("20170011716") or ("20100296119") or ("9253817") or ("20170090514") or ("9233466") or ("20170187855") or ("20140063054") or ("20180174489") or ("8957785") or ("20180084093") or ("20190175411") or ("20140098983") or ("9049515") or ("20180063307") or ("9429759") or ("9779555") or ("20180136703") or ("20110133668") or ("20140009739") or ("20190235581") or ("20170152990") or ("20180097920") or ("8253586") or ("9595237") or ("9768628") or ("20120194550") or ("20170108892") or ("5806740") or ("8976991") or ("20150002374") or ("10534437") or ("20200146384") or ("20140063055") or ("9482869") or ("10136857") or ("20190150546") or ("20030046452") or ("9759917") or ("20080058964") or ("20190116252") or ("20140235169") or ("9646573") or ("9749451") or ("20150309316") or ("20200026079") or ("10332423") or ("20190273815") or ("9541955") or ("20190025587") or ("10649500") or ("20150305425") or ("20120099265") or ("20140000013") or ("20150116316") or ("20170168566") or ("9299230") or ("20190200925") or ("10575579") or ("10306036") or ("20120206335") or ("20200101278") or ("9301085") or ("20190289107")).PN. or (("20150112153") or ("9646574") or ("20110089894") or ("8699216") or ("20140059472") or ("20160080855") or ("20160082589") or ("6748458") or ("20170353784") or ("10306037") or ("5136468") or ("20180309910") or ("10437345") or ("10095275") or ("20030177851") or ("20160195904") or ("20120206323") or ("9955051") or ("10306038") or ("10180572") or ("20140328492") or ("20090218884") or ("20140270685") or ("9430001") or ("20030016487") or ("10076279") or ("20040136167") or ("20170217018") or ("8957835") or ("9101175") or ("6574672") or ("20120194551") or ("10447901") or ("20150195431") or ("20170312557") or ("20180055130") or ("8976513") or ("20120194549") or ("20120206334") or ("20110077556") or ("20170351891") or ("5331580") or ("9532621") or ("10530915") or ("20120194553") or ("20180109278") or ("20160295079") or ("20200195766") or ("6561845") or ("7863859") or ("7946986") or ("20110102991") or ("20120212406") or ("9591393") or ("20170020454") or ("10530914") or				

		("10514542") or ("20040226079") or ("20160367187") or ("20140240109") or ("20190278962") or ("10306116") or ("20130314303") or ("20200138314") or ("20180376038") or ("10178469") or ("10070817") or ("10335083") or ("20040215958") or ("20120194419") or ("9656389") or ("5854904") or ("20120194552") or ("10285293") or ("10148305") or ("20170344114") or ("20200092663") or ("20120206485") or ("20130222213") or ("6863557") or ("7994752") or ("20160299540") or ("9924602") or ("20120200499") or ("20050107716") or ("20130033803") or ("20180001049") or ("10686922") or ("20070258205") or ("20140198035") or ("6065679") or ("20160295095") or ("20200117013") or ("20170367426") or ("5861994") or ("7099151") or ("20090296969") or ("20100245585") or ("20150063777") or ("10027859") or ("20080130219") or ("20180008016") or ("7000037") or ("20040083324") or ("7242574") or ("20120200601") or ("7687758") or ("20200150442") or ("20200159325") or ("20150230719") or ("10001816") or ("20170261745") or ("20120194420") or ("20150257297") or ("20120206322") or ("20170052802") or ("6098877") or ("5426564") or ("20120212414") or ("6356437") or ("20040048503") or ("20190361716") or ("20070271686") or ("9285589") or ("20160080850") or ("5435737") or ("20040184242") or ("20190335600")).PN. or (("20060057973") or ("9536458") or ("9730591") or ("8452259") or ("20080311966") or ("20180131791") or ("9001005") or ("20060041783") or ("5416730") or ("10667711") or ("10321832") or ("20150133190") or ("6234446") or ("10575106") or ("20070009130") or ("20170184861") or ("20140019392") or ("10206447") or ("20120200488") or ("20170224990") or ("20040083325") or ("20180078206") or ("20150324687") or ("20150335284") or ("20170189824") or ("9787346") or ("20150157818") or ("20170151401") or ("20050235086") or ("10485477") or ("9848666") or ("20120194418") or ("20180064364") or ("9699281") or ("20160018846") or ("20080120819") or ("7340221") or ("20130293448") or ("6697894") or ("20190129676") or ("20190248007") or ("7800043") or ("20150349457") or ("20170153672") or ("20140267615") or				

		("20060132382") or ("20190230276") or ("20160070966") or ("10265851") or ("20190182415") or ("20140148872") or ("9177246") or ("20170205202") or ("20160196727") or ("7624453") or ("10288890") or ("10528135") or ("20190004610") or ("6671763") or ("20110077555") or ("20190243415") or ("20200121203") or ("10419655") or ("20150185765") or ("8086288") or ("20110188212") or ("20170102767") or ("20180136461") or ("5463742") or ("6215656") or ("20110077557") or ("20200026088") or ("10339352") or ("20160104451") or ("20170359569") or ("5759044") or ("7271999") or ("10594916") or ("10379877") or ("10488668") or ("20180143451") or ("20200167968") or ("20160212573") or ("20180136475") or ("8903494") or ("9299022") or ("20190104777") or ("9984541") or ("20160077581") or ("20180199635") or ("20190373963") or ("10557687") or ("20110197327") or ("20160262275") or ("8050437") or ("20080049186") or ("20130033677") or ("20150310412") or ("20120296174") or ("10524675") or ("20160367189") or ("20160070105") or ("20150145676") or ("6091832") or ("10194071") or ("20130190661") or ("9592007") or ("8020220") or ("20190387152") or ("20190160239") or ("9256253") or ("20110181238") or ("10222617") or ("10551623") or ("9992883") or ("4401351") or ("5761033") or ("20160295096") or ("20190101977") or ("20080074851") or ("20100226520") or ("10460134") or ("7016512") or ("20150325202") or ("7337256") or ("9430763") or ("10271587") or ("20190215457") or ("20170337737")).PN. or (("20190208050") or ("20080273084") or ("8633616") or ("9799301") or ("20190231001") or ("7733635") or ("20150335283") or ("20170193813") or ("10010722") or ("20170346319") or ("20060002070") or ("20130086722") or ("8932238") or ("9772684") or ("9545221") or ("10137264") or ("20180337542") or ("10684654") or ("20140111147") or ("8300414") or ("20030090437") or ("7665845") or ("20140085815") or ("9641926") or ("9439574") or ("20180180218") or ("10347098") or ("8425435") or ("20180108322") or ("9767373") or ("20180143663") or ("6120307") or ("10539787") or ("10393312") or ("20160135516") or ("10168772") or ("10122985") or ("20200195833") or ("20160317383") or ("8805579") or ("20170319095") or ("10069317") or				

		("20170224281") or ("20200019236") or ("20160022210") or ("8908389") or ("20160209648") or ("9867571") or ("20140184775") or ("20180235304") or ("9240702") or ("8515112") or ("20180167745") or ("10283081") or ("7969746") or ("20190281197") or ("20120215348") or ("9413087") or ("10238338") or ("20180342136") or ("10660384") or ("20150087921") or ("20030169205") or ("7710654") or ("20120249544") or ("20190216396") or ("9844340") or ("20190392779") or ("6563532") or ("10416451") or ("10425595") or ("5285398") or ("20190295389") or ("10264992") or ("10261541") or ("8373980") or ("20170189803") or ("20060238877") or ("8482488") or ("5893771") or ("20150250420") or ("9843354") or ("20190134396") or ("20180014903") or ("20120099261") or ("4894792") or ("20170054461") or ("9134534") or ("20040158666") or ("20110060506") or ("20130300636") or ("20100086157") or ("20030156383") or ("7257465") or ("20100001689") or ("9207715") or ("20200133393") or ("20170070778") or ("9433367") or ("10545573") or ("5896273") or ("9934697") or ("20150264229") or ("10159440") or ("20190017970") or ("20070035626") or ("5999952") or ("20170303809") or ("10342281") or ("20090079697") or ("20100204616") or ("9742890") or ("20170003149") or ("10653190") or ("6067190") or ("RE42168") or ("5796374") or ("20170303031") or ("20110077514") or ("10345123") or ("9253893") or ("10031576") or ("20170090557") or ("20170221383") or ("20070050898") or ("9939913") or ("20100254078") or ("5628055") or ("20170249417") or ("5159534") or ("20200192089")).PN. or (("20160133151") or ("20080192114") or ("20070267567") or ("20040056956") or ("9688162") or ("20180182259") or ("9101296") or ("20190343458") or ("20170318145") or ("7983057") or ("10111601") or ("20120236030") or ("20120249591") or ("5825617") or ("20170065224") or ("20150092015") or ("20180033402") or ("10165101") or ("10025379") or ("6599147") or ("10074342") or ("20170303027") or ("20170205854") or ("20130321925") or ("10502363") or ("10452105") or ("20110221907") or ("20090177131") or ("20020099894") or ("10110988") or ("7731360") or ("6377825") or ("20180317794") or ("20110213664") or ("20170319099") or ("20160135743") or				

		("20150268673") or ("20170046931") or ("9817439") or ("20050210173") or ("20070132841") or ("20160057265") or ("6121953") or ("20190133239") or ("5905947") or ("20150309317") or ("20180059621") or ("20170023971") or ("9729864") or ("8923703") or ("20190059768") or ("20160213263") or ("9047698") or ("20070238945") or ("20120249797") or ("20140159862") or ("9717433") or ("20080081515") or ("20160135742") or ("7460170") or ("5715321") or ("9367793") or ("6449892") or ("5317691") or ("5281957") or ("5119497") or ("6837435") or ("20120330378") or ("20150335288") or ("10362813") or ("7351065") or ("5205091") or ("6012812") or ("9001427") or ("5126910") or ("20150002930") or ("20140050485") or ("9864211") or ("10278606") or ("20120249590") or ("10043357") or ("20160028947") or ("20060187954") or ("7110562") or ("20160239084") or ("9836083") or ("20180085763") or ("9148280") or ("20150346511") or ("20150200554") or ("20180046215") or ("20040008157") or ("20120002064") or ("20160367164") or ("20170112671") or ("10129634") or ("10146262") or ("9967445") or ("20170041374") or ("20020091843") or ("20140245786") or ("20110310012") or ("9135478") or ("7351110") or ("20150138065") or ("20110170702") or ("10610111") or ("9158116") or ("6801418") or ("20160358155") or ("20020130846") or ("20120178270") or ("20060025008") or ("9235941") or ("20100111349") or ("20130086633") or ("20110004089") or ("20150340814") or ("20050062677") or ("20090128448") or ("20020176223") or ("8290638") or ("10045718") or ("5993237") or ("20060285289") or ("20040106331") or ("20140246500") or ("10234942") or ("6108199")).PN. or (("20160038787") or ("20150351690") or ("9427053") or ("10178150") or ("9820665") or ("9619660") or ("20090307405") or ("20190089769") or ("9642537") or ("20120143093") or ("9547175") or ("9204111") or ("9455529") or ("20170274249") or ("9361572") or ("5983073") or ("7245271") or ("20140245788") or ("20160198319") or ("20190175961") or ("10073271") or ("20160349790") or ("20160342882") or ("6975508") or ("20160157590") or ("20080023002") or ("7753523") or ("20180104517") or ("5948047") or ("10606312") or ("8757154") or ("7066754") or				

		("20130000002") or ("20130037027") or ("6016432") or ("10663737") or ("6806847") or ("9939483") or ("20170090512") or ("20120011631") or ("20130235331") or ("9569720") or ("20070025579") or ("20030169563") or ("5963872") or ("5562475") or ("6078825") or ("6057966") or ("10285617") or ("20160223821") or ("7307834") or ("10165946") or ("6825875") or ("20120099266") or ("20100128135") or ("9420856") or ("20100121228") or ("5876218") or ("20090198392") or ("10429888")).PN.				
S1242	2,966	H05K5/0217,0013.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 13:53
S1243	352	H04M1/0252.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 13:53
S1244	21,092	G06F1/1601,1613,1626,1633.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 13:54
S1245	7,824	361/679.21-679.3,679.55,679.56.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 13:54
S1246	10,564	455/575.1-575.9.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 13:54
S1247	787	((("ZADESKY") near3 ("Stephen")) OR (("HOBSON") near3 ("Phillip")) OR (("TAN") near3 ("Tang"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/06/22 13:54
S1248	792	(("20190297738") or ("10609832") or ("20060148541") or ("7561686") or ("20060148543") or ("10420231") or ("20180092229") or ("9730338") or ("20130335899") or ("8269675") or ("8855728") or ("8319692") or ("20100029349") or ("8325094") or ("8896487") or ("20120105294") or ("20100321253") or ("20140313650") or ("9261907") or ("20170311456") or ("20130170117") or ("8102321") or ("7092520") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 13:55

		("20100231481") or ("20080207279") or ("8203493") or ("20100277377") or ("8027464") or ("8537543") or ("8638549") or ("20110006953") or ("8508418") or ("20120050975") or ("20100321255") or ("4706273") or ("20130009833") or ("7953461") or ("20090291718") or ("20100321325") or ("7804453") or ("20060160585") or ("8099138") or ("20090262029") or ("9344136") or ("20090305748") or ("10268236") or ("20170212554") or ("9397387") or ("20160020806") or ("20090257189") or ("9203137") or ("9653777") or ("7405703") or ("20160261022") or ("7088294") or ("7082324") or ("7612726") or ("7839343") or ("20050176475") or ("20060217164") or ("20080132303") or ("20070053504") or ("10067535") or ("20190356051") or ("20060063571") or ("7266399") or ("20020028693") or ("20030138097") or ("7885403") or ("20020057792") or ("7091911") or ("20080037769") or ("20060084465") or ("7986983") or ("8018385") or ("7403165") or ("7239700") or ("7256744") or ("20080037771") or ("20090170573") or ("7689244") or ("20120122521") or ("20200159286") or ("8862190") or ("9955599") or ("20180292864") or ("9826650") or ("10551874") or ("5933330") or ("7991147") or ("20080037770") or ("20090170574") or ("20110201389") or ("20160327993") or ("20060166711") or ("9513672") or ("7068230") or ("20060239445") or ("20170010637") or ("20090104949") or ("7696935") or ("7271772") or ("8274437") or ("7482985") or ("9769929") or ("20060092084") or ("9201452") or ("10019038") or ("9164536") or ("7982677") or ("20170213665") or ("7289072") or ("20140092028") or ("9680202") or ("8004469") or ("6377827") or ("8964352") or ("20130222736") or ("8619067") or ("20180284468") or ("20130324197") or ("5878353") or ("20080019502") or ("20060140428") or ("5566224") or ("9793598") or ("6227872") or ("7620175") or ("20140307370") or ("20080287171") or ("20100022268") or ("20050270240") or ("7706556")).PN. or (("8792662") or ("20150214602") or ("20100195854") or ("20060220969") or ("7489276") or ("8538051") or ("5995854") or ("6321070") or ("8526161") or ("7834853") or ("10090877") or ("8506327") or ("8766858") or ("10290441") or ("7821463") or ("20070247374") or ("8054232") or ("7551949") or ("9203139") or				

		("7082318") or ("20140233168") or ("9425496") or ("20030114184") or ("20110076883") or ("20080037765") or ("20120050114") or ("20100321249") or ("10313497") or ("7907978") or ("10031367") or ("20140132463") or ("20140085556") or ("20110255260") or ("9728858") or ("20050272488") or ("9496668") or ("20140086441") or ("6996426") or ("20110255259") or ("20140001022") or ("20050079897") or ("9629272") or ("20050270242") or ("20130293425") or ("5029339") or ("20170237460") or ("20140133174") or ("6633749") or ("20140361932") or ("20100285852") or ("10396843") or ("20070247389") or ("20080291099") or ("20100182208") or ("9559741") or ("20060208952") or ("20020016182") or ("9917934") or ("9615476") or ("9020570") or ("9660684") or ("20080125076") or ("9036109") or ("20180337704") or ("8395722") or ("20030112225") or ("20140049727") or ("9651999") or ("20170149127") or ("20100315570") or ("20130294020") or ("8866989") or ("9203938") or ("8019394") or ("8174452") or ("20190297177") or ("8995126") or ("8269674") or ("7705792") or ("20090005131") or ("8711304") or ("20160099741") or ("20140233167") or ("20070115621") or ("10630824") or ("8125394") or ("8531834") or ("7027844") or ("7580726") or ("20150171913") or ("10600997") or ("9300344") or ("20080311963") or ("8687360") or ("20100073241") or ("7627337") or ("7353003") or ("7444173") or ("20120044155") or ("9276626") or ("20020061736") or ("20070243896") or ("20190294214") or ("20160291245") or ("8204266") or ("20130027862") or ("20100182205") or ("9622365") or ("20070243897") or ("20140240903") or ("20130334072") or ("20060234786") or ("20160164165") or ("20080272966") or ("20040102232") or ("20050124393") or ("20090316943") or ("20070252774") or ("20160351855") or ("20100149751") or ("9653778") or ("20120314354") or ("20120020509") or ("20060258325") or ("8456586") or ("8576136") or ("9577315") or ("7561684") or ("20050270241") or ("6776626") or ("20060214858")).PN. or (("20100184388") or ("20110201390") or ("20140292591") or ("4394545") or ("20130002519") or ("6493542") or ("9441829") or ("20140092283") or ("9335510") or ("20150270598") or ("9106728") or				

		("20030181078") or ("20060025185") or ("9350068") or ("20140247404") or ("20110273343") or ("7225003") or ("20020002059") or ("7031762") or ("20100273530") or ("20090160714") or ("9450289") or ("20150270599") or ("20120020002") or ("20030013490") or ("9559406") or ("20130188305") or ("9140927") or ("20150255851") or ("8731618") or ("20060066771") or ("9583838") or ("9866931") or ("10353432") or ("20060293078") or ("20140092341") or ("4940296") or ("7203309") or ("20120092221") or ("9055361") or ("8213659") or ("8259017") or ("10665924") or ("20140092346") or ("20040147294") or ("20160233573") or ("4712236") or ("20140050348") or ("5613223") or ("20200021012") or ("20100329496") or ("9075567") or ("9730340") or ("6229994") or ("20090256758") or ("20150261032") or ("9400349") or ("20140043552") or ("8994906") or ("10333199") or ("20120020000") or ("8724304") or ("20030096582") or ("20100328856") or ("7383067") or ("20130279088") or ("20180040943") or ("20090003630") or ("7181253") or ("8139762") or ("8615077") or ("20050148375") or ("20060172785") or ("20100134968") or ("8995677") or ("20150323831") or ("20100054493") or ("20200099138") or ("8681056") or ("5134654") or ("20120129582") or ("20140243052") or ("6016423") or ("20140133179") or ("20130130756") or ("20080125197") or ("20150138710") or ("9450292") or ("7925316") or ("20140361931") or ("20080287157") or ("20110133998") or ("20110159933") or ("6996424") or ("9293806") or ("20150311594") or ("9379445") or ("20140233169") or ("20130265708") or ("6064894") or ("8180415") or ("10630822") or ("20150255853") or ("8320979") or ("20100092022") or ("9588371") or ("8170266") or ("8238984") or ("10681195") or ("10488888") or ("20180183913") or ("20140073374") or ("20130328820") or ("20100124952") or ("8374378") or ("20140233170") or ("9473602") or ("20200089282") or ("8068061") or ("8363824") or ("8665164") or ("9990001") or ("20120212903") or ("20150301563") or ("20090305746") or ("9841644") or ("10651879") or ("8487819") or ("20130329460") or ("9614569") or ("20150148099")).PN. or (("9806751") or ("8953780") or ("9838059") or ("20180232009") or ("20160254836") or ("20180059729") or ("20100304796") or ("10228719") or ("6311076") or				

		("20180076843") or ("20170170857") or ("8274438") or ("20140085161") or ("20190033911") or ("9997578") or ("20150323843") or ("9759937") or ("9454025") or ("8712485") or ("9256250") or ("8922443") or ("20110028192") or ("7590436") or ("9835786") or ("20170012095") or ("20090111537") or ("20160320658") or ("20180032105") or ("20150169007") or ("20090128368") or ("8253691") or ("20140036204") or ("20140045557") or ("20140218856") or ("20120306706") or ("20120062441") or ("20050190291") or ("9239489") or ("20060061704") or ("20120129579") or ("9559425") or ("9136895") or ("20140063393") or ("20130335211") or ("8408780") or ("9882269") or ("20070265028") or ("7812770") or ("10067537") or ("20140118985") or ("20010034249") or ("20170168637") or ("20110007892") or ("7437184") or ("20120071113") or ("20080055162") or ("20090054113") or ("6625426") or ("5369701") or ("20160248148") or ("D413331") or ("9817444") or ("5649316") or ("7489301") or ("8315677") or ("9140925") or ("9429995") or ("20140055719") or ("20160231783") or ("20150331452") or ("20110237300") or ("9344539") or ("20090103250") or ("20050235021") or ("4845869") or ("20140078447") or ("20060068858") or ("8451179") or ("9671660") or ("20070243906") or ("7965519") or ("8045341") or ("8996082") or ("7664256") or ("8684158") or ("8995125") or ("20140043744") or ("20060139898") or ("20120257341") or ("8060164") or ("7684561") or ("8417298") or ("20090079698") or ("4706399") or ("7787618") or ("20140152890") or ("4683585") or ("20200089287") or ("20080124626") or ("10061158") or ("10594351") or ("20190097306") or ("7466558") or ("20190163233") or ("8264463") or ("6134336") or ("20090040115") or ("9172139") or ("8138977") or ("20120129580") or ("20160014489") or ("8301201") or ("20040077391") or ("20020102866") or ("9469469") or ("7933123") or ("20110188225") or ("20060093134") or ("9226057") or ("7684837") or ("20100103054") or ("20060177048") or ("9116267") or ("20120285791") or ("20140078677") or ("20190043452") or ("20050107046") or ("8340733") or ("20160233913") or ("20180198895") or ("8638556") or ("20030032443")).PN. or ((("20090247237") or ("8169410") or ("9213428") or				

		("20140092630") or ("20140049726") or ("20140051488") or ("20110133995") or ("20060148425") or ("20130237289") or ("8204560") or ("4852373") or ("8314738") or ("7542565") or ("20120124491") or ("20140049500") or ("10607573") or ("20040203493") or ("20110284348") or ("7050764") or ("20030003970") or ("9110320") or ("20200127697") or ("20060101354") or ("20080144261") or ("20040204065") or ("20140183066") or ("20100151923") or ("20090137280") or ("7966046") or ("8532722") or ("20140118661") or ("20150270618") or ("10324615") or ("20090257207") or ("4938547") or ("D410002") or ("6999805") or ("10294016") or ("7003318") or ("20040204209") or ("20070197259") or ("6842633") or ("2150384") or ("20060040081") or ("9653783") or ("10476136") or ("20060079302") or ("20100178955") or ("20120127087") or ("10005611") or ("20050236265") or ("20010051510") or ("7248904") or ("20150082147") or ("20050227634") or ("7228151") or ("20190258378") or ("6396444") or ("9939699") or ("7094985") or ("20060121963") or ("20190027808") or ("9496602") or ("20090215495") or ("20170318686") or ("RE44405") or ("5953048") or ("20150313003") or ("6959210") or ("8855555") or ("20180237214") or ("6149442") or ("8963782") or ("20040262179") or ("20160198824") or ("20120073944") or ("6950680") or ("20150070291") or ("9052816") or ("7099710") or ("20110279328") or ("6088603") or ("9516743") or ("9575524") or ("5657370") or ("8085963") or ("20150357703") or ("20180113493") or ("7016712") or ("7369883") or ("9423897") or ("20120220219") or ("8160658") or ("10181746") or ("6304763") or ("7999660") or ("10635141") or ("7990323") or ("20060279942") or ("10320069") or ("7474747") or ("9055142") or ("20140240985") or ("20060232918") or ("9620571") or ("20030054854") or ("20080273734") or ("6731913") or ("9160056") or ("20040203507") or ("6665550") or ("20060142073") or ("8306252") or ("20160218156") or ("9753317") or ("20090273525") or ("20110267239") or ("20090270146") or ("20180063981") or ("7391623") or ("7130421") or ("6626706") or ("9829982") or ("7072699") or ("6681125") or ("20060126825") or ("20060066770") or ("20030143961") or ("20050069126") or ("8482469") or ("RE42723") or ("7353051") or				

		("20190312347")).PN. or (("20050136883") or ("6889064") or ("20080316114") or ("10120450") or ("20140176848") or ("6208874") or ("20170352503") or ("20100090814") or ("20160085125") or ("20030165047") or ("20160344221") or ("20020004416") or ("20110050509") or ("9462099") or ("8913390") or ("20100035670") or ("6064341") or ("9189024") or ("7573427") or ("7181257") or ("7373180") or ("20120039029") or ("9947901") or ("9195108") or ("20060030380") or ("8180411") or ("20200119439") or ("20130002492") or ("10581153") or ("20100203929") or ("20060121766") or ("20180316787") or ("5778063") or ("20100277877") or ("20190081394") or ("8126138") or ("20110103041") or ("9429803") or ("8269677") or ("20020109641") or ("20110050508") or ("10476170") or ("7711396") or ("20150301417") or ("20130002494") or ("20140002996") or ("20150062787") or ("20060177047") or ("5583935") or ("20120128189") or ("20040246669") or ("9928762") or ("20130215642") or ("20150270619") or ("9354673") or ("20140357329") or ("9411385") or ("20090061794") or ("8649506") or ("9660004") or ("20150236426") or ("7489955") or ("20080166009") or ("9515131") or ("7054669") or ("9595497") or ("20150362770") or ("20140055702") or ("7460885") or ("8952853") or ("9780159") or ("9214507") or ("10536761") or ("6904300") or ("20140334081") or ("20110241949") or ("20140049522") or ("9427071") or ("5187743") or ("20160079337") or ("20020177470") or ("7558594") or ("20140153763") or ("20040229593") or ("10437282") or ("20130162485") or ("20190267718") or ("20050266900") or ("20040229664") or ("8395555") or ("20120046081") or ("6831977") or ("7965495") or ("10483620") or ("8346320") or ("6130521") or ("20030153213") or ("20150268775") or ("7911387") or ("9292044") or ("9372505") or ("20170062547") or ("8339250") or ("20150085435") or ("20020118826") or ("20200044305") or ("6064864") or ("20050070343") or ("6957083") or ("8792947") or ("20030153214") or ("20040204064") or ("7075785") or ("20040058720") or ("7876274") or ("20050215907") or ("9939672") or ("7382607") or ("20090176473") or ("20170205923") or ("4640542") or ("20170075424") or ("20180091879") or ("9400529") or				

		("20050287953") or ("20180279028") or ("9215833") or ("20140268578") or ("20110109516") or ("8112130") or ("20150022759")).PN.				
S1249	4	(("20020044136") or ("6842333") or ("7072624") or ("20060198094")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/22 14:24
S1256	1	"8570273".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/06/26 13:44

7/5/2020 4:38:51 PM
C:\Users\ahaughton\Documents\EAST\Workspaces\15_\15_730679\Search5_11.wsp

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 15/835,573	Filing Date 12/08/2017	☐ To be Mailed

ENTITY: ☐ LARGE ☑ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $40 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $210 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	09/22/2020	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0		x $50 =	0
	Independent (37 CFR 1.16(h))	* 2	Minus	*** 3	= 0		x $230 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/ROBERT J TALBERT/
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".	
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.	

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(s):	Oura Health Oy	ART UNIT:	2835
SERIAL NUMBER:	15/835,573	CONF. NO.:	7420
FILING DATE:	8 December 2017	EXAMINER:	Anthony M. Haughton
TITLE:	WEARABLE ELECTRONIC DEVICE AND METHOD FOR MANUFACTURING THEREOF		
ATTORNEY REFERENCE NO.:	MDJN.3277.USC2	JOUZEN004_CON1	

Mail Stop AF
Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

RESPONSE AFTER FINAL

I. Introduction

This is responsive to the Final Office Action mailed 9 July 2020.

Amendments to the Claims are presented on page 2.

Remarks begin on page 6.

Petitioner Samsung Ex-1004, 0548

II. Amendments to the Claims

The following listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A wearable electronic device comprising:

[[-]] a body part made of a non-ceramic material, having an inner surface and an outer surface, wherein at least one cavity is formed on the inner surface of the body part, the at least one cavity extending from the inner surface of the body part towards the outer surface of the body part and having a depth ~~is~~ arranged ~~on~~within the inner surface of the body part,

[[-]] an electronic part arranged in said at least one cavity, which electronic part has a thickness that is less than the depth of the at least one cavity, and

[[-]] a coating made of a moldable filler material on the inner surface of the body part, covering the electronic part and the at least one cavity.

2. (Original) The wearable electronic device according to claim 1, wherein the non-ceramic material is a titanium material.

3. (Original) The wearable electronic device according to claim 1, wherein the non-ceramic material is a machinable material.

4. (Original) The wearable electronic device according to claim 1, wherein the non-ceramic material is a machinable titanium material.

5. (Original) The wearable device according to claim 1 wherein the non-ceramic material is a machinable metallic material comprising one or more of titanium, steel, platinum, gold, palladium, silver or bronze or a gold based alloys.

6. (Original) The wearable electronic device according to claim 1, wherein the electronic part is attached to the cavity a bottom of the cavity.

Petitioner Samsung Ex-1004, 0549

7. (Original) The wearable electronic device according to claim 6, comprising one or more of a sticker, a tape or glue that attaches the electronic part to the at least one cavity at a bottom of the at least one cavity.

8. (Original) The wearable electronic device according to claim 1, wherein the moldable filler material is selected from a group consisting of at least epoxy material, Polyethylene, Polyurethane, low temperature moldable material, Loctite M-31CL, alpha-epoxy, 1,2-epoxy, EpoxAcast® 650, Bisphenol S epoxy resin, Novolac epoxy resin, Aliphatic epoxy resin and Glycidylamine epoxy resin.

9. (Previously Presented) The wearable electronic device according to claim 1, wherein the electronic part comprises one or more of a battery, an infrared transmitter, a microcontroller, a radio frequency transceiver, a temperature sensor and an infrared receiver.

10. (Original) The wearable electronic device according to claim 9, wherein the moldable filler material comprises an ink and is configured to cover at least an area other than the infrared transmitter and the infrared receiver within the at least one cavity

11. (Original) The wearable electronic device according to claim 1, wherein the moldable filler material comprises an ink that increases a value of transmitted infrared light intensity divided by transmitted visible light intensity.

12. (Original) The wearable electronic device according to claim 1, wherein the body part comprises a ring configured to be worn on a finger.

13. (Withdrawn, Original) A method for manufacturing a wearable electronic device, comprising:

Petitioner Samsung Ex-1004, 0550

- machining a body part using a non-ceramic material to form at least one cavity on an inner surface of the body part,

- arranging an electronic part in said at least one cavity, and

- coating the inner surface of the body part including covering the electronic part and filling any open regions in said at least one cavity

14. (Withdrawn, Previously Presented) The method according to claim 13, wherein the electronic part is attached to the cavity using one or more of a sticker, tape disposed on a bottom of the at least one cavity.

15. (Withdrawn, Previously Presented) The method according to claim 13, comprising using an assembly guiding element to arrange the electronic part in the at least one cavity.

16. (Withdrawn, Previously Presented) The method according to claim 13, wherein machining the body part to form the at least one cavity comprises machining a first cavity and a second cavity on the inner surface of the body part.

17. (Withdrawn, Previously Presented) The method according to claim 16, wherein the first cavity and the second cavity are connected.

18. (Withdrawn, Previously Presented) The method according to claim 17, wherein the electronic part comprises a battery and a support on which other components of the electronic part are arranged, and arranging the electronic part in the cavity comprises arranging the battery in the first cavity, connecting the battery to the support and arranging the support in the second cavity.

19. (Withdrawn, Previously Presented) The method according to claim 13, wherein coating the inner surface of the body part comprises applying an epoxy resin on the inner surface and curing the resin to form an epoxy coating.

Petitioner Samsung Ex-1004, 0551

20. (Withdrawn, Original) The method according to claim 13, wherein the body part comprises a ring configured to be worn on a finger.

Petitioner Samsung Ex-1004, 0552

III. Remarks

Claims 1-20 are pending in this application with claims 1 and 13 as the independent claim. Claims 13-20 are withdrawn from consideration. Claim 1 is amended herein. Support for the amendment can be found in at least paragraph 0062 and Figure 4 of the application as filed. A Request under the After Final Consideration Pilot 2.0 is submitted herewith.

Patentability of the Claims

Independent Claim 1

Independent claim 1 stands rejected under 35 U.S.C. 102(a)(1) as being anticipated by *von Badinski* (US 2015/0220109). Applicant respectfully traverses this rejection because it is submitted that *von Badinski* fails to disclose at least the feature of a body part made of a non-ceramic material, having an inner surface and an outer surface, wherein at least one cavity is formed on the inner surface of the body part, the at least one cavity extending from the inner surface of the body part towards the outer surface of the body part and having a depth is arranged within the inner surface of the body part as is recited in claim 1.

Figures 4 and 5 of Applicant's specification are reproduced below. These Figures illustrate what is recited in claim 1.

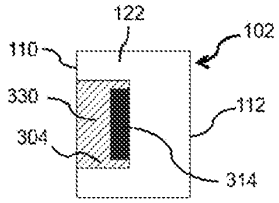


FIG. 4

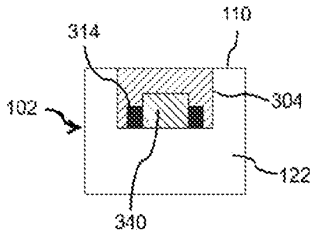


FIG. 5

In Figure 4, the cavity 330 is shown formed in the inner surface 110 of the body part 102. The cavity 304 extends from the inner surface 110 toward the outer surface 112 of the body part 102. The disclosure of *von Badinski* is different in this regard.

Reference is made to Figures 4 and 8 of *von Badinski*, which is reproduced below:

Petitioner Samsung Ex-1004, 0553

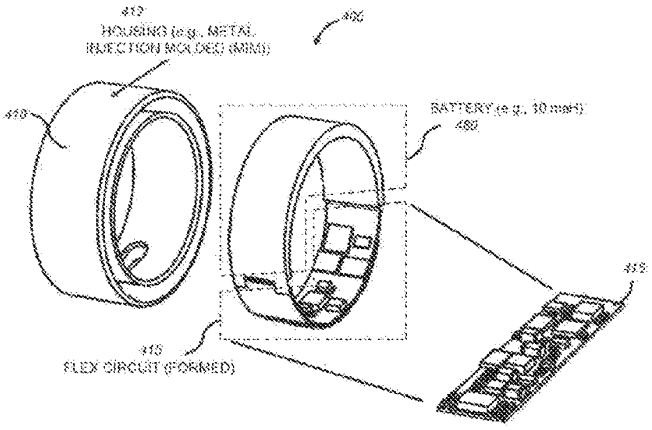


FIG. 4

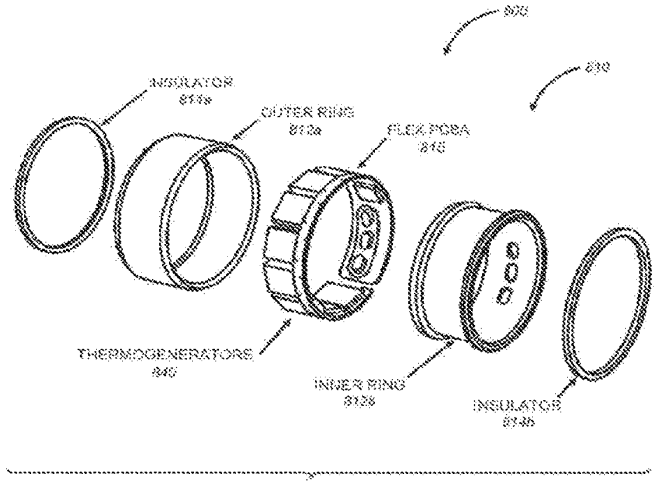


FIG. 8

Figure 8 is an assembly drawing of Figure 4. As can be seen in Figure 8, the housing of *von Badinski* has an outer ring and an inner ring. The electronics are maintained between the outer ring 812a and the inner ring 812b. Insulators 814a and 814b are used on both ends of the assembly to maintain the parts in their positions. What is shown in *von Badinski* is not the same as what is recited in Applicant's claim, where the cavity for the electronics is formed in the inner surface of the body part.

In view of the foregoing, Applicant respectfully submits that claim 1 is not anticipated by *von Badinski*.

Petitioner Samsung Ex-1004, 0554

Dependent Claims 2-12

Dependents claims 2-12 are patentable for at least the reason of their dependency from independent claim 1 as well as for the additional features recited therein.

Conclusion

For the reasons set out above, Applicant respectfully submits that the application is in condition for allowance. Favorable reconsideration and allowance of the application are respectfully requested. If the Examiner believes that anything further is necessary to place the application in better condition for allowance, the Examiner is kindly asked to contact the undersigned at the telephone number below.

The Commissioner is hereby authorized to charge any fees associated with this communication or credit any over payment to Deposit Account No. 50-5215.

Respectfully submitted,

/gcz44004/ 22 September 2020

Geza C. Ziegler, Jr. Date

Reg. No. 44,004
Douglas Zhang
Reg. No. 37,985
Customer No. 93582
Ziegler IP Law Group, LLC.
55 Greens Farms Road
Westport, CT 06880
Tel: 203 659 0388
Fax: 203 222 5299
Email:ptomail@gziplaw.com

Petitioner Samsung Ex-1004, 0555

Doc Code: A.NE.AFCP
Document Description: After Final Consideration Pilot Program Request

PTO/SB/434 (05-13)

CERTIFICATION AND REQUEST FOR CONSIDERATION UNDER THE AFTER FINAL CONSIDERATION PILOT PROGRAM 2.0

Practitioner Docket No.:	Application No.:	Filing Date:
MD.3277.USC2	15835573	8 December 2017
First Named Inventor:	**Title:**	
Haverinen	WEARABLE ELECTRONIC DEVICE AND METHOD FOR MANUFACTURING THEREOF	

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS CONSIDERATION UNDER THE AFTER FINAL CONSIDERATION PILOT PROGRAM 2.0 (AFCP 2.0) OF THE ACCOMPANYING RESPONSE UNDER 37 CFR 1.116.

1. The above-identified application is (i) an original utility, plant, or design nonprovisional application filed under 35 U.S.C. 111(a) [a continuing application (*e.g.*, a continuation or divisional application) is filed under 35 U.S.C. 111(a) and is eligible under (i)], or (ii) an international application that has entered the national stage in compliance with 35 U.S.C. 371(c).
2. The above-identified application contains an outstanding final rejection.
3. Submitted herewith is a response under 37 CFR 1.116 to the outstanding final rejection. The response includes an amendment to at least one independent claim, and the amendment does not broaden the scope of the independent claim in any aspect.
4. This certification and request for consideration under AFCP 2.0 is the only AFCP 2.0 certification and request filed in response to the outstanding final rejection.
5. Applicant is willing and available to participate in any interview requested by the examiner concerning the present response.
6. This certification and request is being filed electronically using the Office's electronic filing system (EFS-Web).
7. Any fees that would be necessary consistent with current practice concerning responses after final rejection under 37 CFR 1.116, *e.g.*, extension of time fees, are being concurrently filed herewith. [There is no additional fee required to request consideration under AFCP 2.0.]
8. By filing this certification and request, applicant acknowledges the following:
    - Reissue applications and reexamination proceedings are not eligible to participate in AFCP 2.0.
    - The examiner will verify that the AFCP 2.0 submission is compliant, *i.e.*, that the requirements of the program have been met (see items 1 to 7 above). For compliant submissions:
        - The examiner will review the response under 37 CFR 1.116 to determine if additional search and/or consideration (i) is necessitated by the amendment and (ii) could be completed within the time allotted under AFCP 2.0. If additional search and/or consideration is required but cannot be completed within the allotted time, the examiner will process the submission consistent with current practice concerning responses after final rejection under 37 CFR 1.116, *e.g.*, by mailing an advisory action.
        - If the examiner determines that the amendment does not necessitate additional search and/or consideration, or if the examiner determines that additional search and/or consideration is required and could be completed within the allotted time, then the examiner will consider whether the amendment places the application in condition for allowance (after completing the additional search and/or consideration, if required). If the examiner determines that the amendment does not place the application in condition for allowance, then the examiner will contact the applicant and request an interview.
            - The interview will be conducted by the examiner, and if the examiner does not have negotiation authority, a primary examiner and/or supervisory patent examiner will also participate.
            - If the applicant declines the interview, or if the interview cannot be scheduled within ten (10) calendar days from the date that the examiner first contacts the applicant, then the examiner will proceed consistent with current practice concerning responses after final rejection under 37 CFR 1.116.

Signature	Date
/gcz44004/	22 September 2020
Name (Print/Typed) Geza C. Ziegler Jr.	Practitioner Registration No. 44004

***Note**: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.*

[✓] * Total of 1 forms are submitted.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt

EFS ID:	40631377
Application Number:	15835573
International Application Number:	
Confirmation Number:	7420
Title of Invention:	WEARABLE ELECTRONIC DEVICE AND METHOD FOR MANUFACTURING THEREOF
First Named Inventor/Applicant Name:	Teemu Haverinen
Customer Number:	93582
Filer:	GEZA C ZIEGLER JR/Deandra Castro
Filer Authorized By:	GEZA C ZIEGLER JR
Attorney Docket Number:	MD.3277.USC2
Receipt Date:	22-SEP-2020
Filing Date:	08-DEC-2017
Time Stamp:	15:52:00
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		200922_3277_USC2_Response_FOA_200709.pdf	504818 6295215fd20323e36f0e03ff60d5399f8d6c3956	yes	8

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Response After Final Action	1	1
	Claims	2	5
	Applicant Arguments/Remarks Made in an Amendment	6	8

Warnings:					
Information:					
2	After Final Consideration Program Request	sb0434.pdf	226458 3aa3c6cd4d457d79a9a8c48b0b957b2ab8b8006b	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	731276		

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 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.

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.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

93582 7590 10/13/2020

ZIEGLER IP LAW GROUP, LLC.
55 GREENS FARMS ROAD
WESTPORT, CT 06880

EXAMINER
HAUGHTON, ANTHONY MICHAEL

ART UNIT	PAPER NUMBER
2841	

DATE MAILED: 10/13/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/835,573	12/08/2017	Teemu Haverinen	MD.3277.USC2	7420

TITLE OF INVENTION: WEARABLE ELECTRONIC DEVICE AND METHOD FOR MANUFACTURING THEREOF

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$600	$0.00	$0.00	$600	01/13/2021

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

Petitioner Samsung Ex-1004, 0560

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.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

93582 7590 10/13/2020
ZIEGLER IP LAW GROUP, LLC.
55 GREENS FARMS ROAD
WESTPORT, CT 06880

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

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.
15/835,573	12/08/2017	Teemu Haverinen	MD.3277.USC2	7420

TITLE OF INVENTION: WEARABLE ELECTRONIC DEVICE AND METHOD FOR MANUFACTURING THEREOF

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$600	$0.00	$0.00	$600	01/13/2021

EXAMINER	ART UNIT	CLASS-SUBCLASS
HAUGHTON, ANTHONY MICHAEL	2841	361-679030

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_____
2_____
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 (B) RESIDENCE: (CITY and STATE OR COUNTRY)

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 _____

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via EFS-Web ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

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 _____ Date _____

Typed or printed name _____ Registration No. _____

Petitioner Samsung Ex-1004, 0561

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/835,573	12/08/2017	Teemu Haverinen	MD.3277.USC2	7420

93582 7590 10/13/2020

ZIEGLER IP LAW GROUP, LLC.
55 GREENS FARMS ROAD
WESTPORT, CT 06880

EXAMINER	
HAUGHTON, ANTHONY MICHAEL	
ART UNIT	**PAPER NUMBER**
2841	

DATE MAILED: 10/13/2020

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

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

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 Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Petitioner Samsung Ex-1004, 0562

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 15/835,573	Applicant(s) Haverinen et al.	
	Examiner ANTHONY M HAUGHTON	Art Unit 2841	AIA (FITF) Status Yes

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

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to the claims submitted on 9/22/2020.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☑ The allowed claim(s) is/are 1-12 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☑ Interview Summary (PTO-413), Paper No./Mail Date. 9/25/2020.
5. ☑ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☑ Other PTO-2323.

/ANTHONY M HAUGHTON/
Primary Examiner, Art Unit 2841

Petitioner Samsung Ex-1004, 0564

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in an interview with Geza Ziegler, Jr. (Reg. No. 44,044) on 9/25/2020.

The application has been amended as follows:

Regarding Claims 13-20: Please Cancel claims 13-20

Allowable Subject Matter

Claims 1-12 are allowed.

The following is an examiner's statement of reasons for allowance: **Claims 1-12** are considered to be allowable because the prior art of record neither anticipates nor renders obvious the limitations of the base claim 1. **Claim 1** includes a wearable electronic device comprising: a body part made of a non-ceramic material, wherein at least one cavity is formed on the inner surface of the body part, the at least one cavity extending from the inner surface of the body part towards the outer surface of the body part and having a depth arranged within the inner surface of the body part, an electronic part arranged in said at least one cavity, which electronic part has a thickness that is less than the depth of the at least one cavity, and a coating made of a moldable filler material on the inner surface of the body part, covering the electronic part and the at least one cavity in combination with all other elements of the claim. **Claims 2-12** are all dependent upon claim 1 and are considered to be allowable at least for the same reasons as claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANTHONY MICHAEL HAUGHTON whose telephone number is (571)272-9087. The examiner can normally be reached on M-F 9a-5p.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jinhee Lee can be reached on 571-272-1977. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see https://ppair-my.uspto.gov/pair/PrivatePair. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ANTHONY M HAUGHTON/
Primary Examiner, Art Unit 2841

Examiner-Initiated Interview Summary	Application No. 15/835,573	Applicant(s) Haverinen et al.	
	Examiner ANTHONY M HAUGHTON	Art Unit 2841	AIA (FITF) Status Yes

All participants (applicant, applicant's representative, PTO personnel):

(1) ANTHONY MICHAEL. HAUGHTON. (3) _____.

(2) Geza Ziegler, Jr. (Reg. No. 44,044). (4) _____.

Date of Interview: 25 September 2020.

Type: ☑ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☑ No.
If Yes, brief description: _____.

Issues Discussed ☐ 101 ☐ 112 ☐ 102 ☐ 103 ☑ Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 13-20.

Identification of prior art discussed: NA.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

It was agreed upon to cancel the previously withdrawn claims 13-20, placing the case in condition for allowance..

Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2841	

Petitioner Samsung Ex-1004, 0567

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/835,573	Haverinen et al.
	Examiner	**Art Unit**
	ANTHONY M HAUGHTON	2841

CPC						
Symbol					**Type**	**Version**
A61B	/	5	/	6801	F	2013-01-01
G06F	/	1	/	163	I	2013-01-01
A61B	/	5	/	01	I	2013-01-01
A61B	/	5	/	681	I	2013-01-01
A61B	/	5	/	6826	I	2013-01-01
A61B	/	2562	/	00	A	2013-01-01
A61B	/	5	/	02416	A	2013-01-01
B28B	/	1	/	24	A	2013-01-01
A61B	/	2562	/	12	A	2013-01-01

CPC Combination Sets							
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	12	
/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2841	01 October 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	3

U.S. Patent and Trademark Office — Part of Paper No.: 20201001

Petitioner Samsung Ex-1004, 0568

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/835,573	Haverinen et al.
	Examiner	**Art Unit**
	ANTHONY M HAUGHTON	2841

INTERNATIONAL CLASSIFICATION				
CLAIMED				
A61B5/00	/	5	/	00
A61B5/01	/	5	/	01
A61B5/024	/	5	/	024
G06F	/	1	/	16
	/		/	

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 12	
/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2841 (Primary Examiner)	01 October 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 3

U.S. Patent and Trademark Office — Part of Paper No.: 20201001

Petitioner Samsung Ex-1004, 0569

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/835,573	Haverinen et al.
	Examiner	**Art Unit**
	ANTHONY M HAUGHTON	2841

☑ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	10	10	-	19										
2	2	11	11	-	20										
3	3	12	12												
4	4	-	13												
5	5	-	14												
6	6	-	15												
7	7	-	16												
8	8	-	17												
9	9	-	18												

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 12	
/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2841 (Primary Examiner)	01 October 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 3

U.S. Patent and Trademark Office — Part of Paper No.: 20201001

Petitioner Samsung Ex-1004, 0570

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/835,573	Haverinen et al.
	Examiner	Art Unit
	ANTHONY M HAUGHTON	2841

CPC - Searched*		
Symbol	**Date**	**Examiner**
(A61B5/6801 ; A61B5/6826 ; A61B5/681 ; A61B5/01 ; G06F1/163 ; A61B2562/12 ; B28B1/24 ; A61B5/02416 ; A61B2562/00)	05/27/2019	YA
g06f1/163	12/23/2019	amh
G06F1/163	10/01/2020	AMH
A61B5/6801,01,681,6826,02416	10/01/2020	AMH

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2841	

Petitioner Samsung Ex-1004, 0571

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/835,573	Haverinen et al.
	Examiner	Art Unit
	ANTHONY M HAUGHTON	2841

Search Notes		
Search Notes	**Date**	**Examiner**
(A61B5/6801 ; A61B5/6826 ; A61B5/681 ; A61B5/01 ; G06F1/163 ; A61B2562/12 ; B28B1/24 ; A61B5/02416 ; A61B2562/00) WITH TEXT	05/27/2019	YA
Inventor search in EAST	05/27/2019	YA
IP.com search	12/26/2018	YA
Reviewed file wrapper for parent case 14/826,360	12/26/2018	YA
Consulted with Primary Examiner Anthony Haughton	05/27/2019	YA
east search	12/23/2019	amh
classification search	12/23/2019	amh
ip.com search	12/23/2019	amh
inventor search	12/23/2019	amh
updated east search	04/27/2020	AMH
UPDATED EAST SEARCH	10/01/2020	AMH
CLASSIFICATION SEARCH	10/01/2020	AMH
INVENTOR SEARCH	10/01/2020	AMH

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
	Interference search conducted	05/27/2019	YA
G06F1	163	10/01/2020	AMH
A61B5	6801,681,6826	10/01/2020	AMH

/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2841	

Petitioner Samsung Ex-1004, 0572

AFCP 2.0 Decision

Application No.	Applicant(s)	
15/835,573	Haverinen et al.	
Examiner	**Art Unit**	**AIA (FITF) Status**
ANTHONY M HAUGHTON	2841	Yes

This is in response to the After Final Consideration Pilot request filed 22 September 2020.

1. **Improper Request** – The AFCP 2.0 request is improper for the following reason(s) and the after final amendment submitted with the request will be treated under pre-pilot procedure.

   ☐ An AFCP 2.0 request form PTO/SB/434 (or equivalent document) was not submitted.

   ☐ A non-broadening amendment to at least one independent claim was not submitted.

   ☐ The request is not the first proper AFCP 2.0 request submitted in response to the most recent final rejection.

   ☐ Other: _____

2. **Proper Request**

   A. After final amendment submitted with the request will not be treated under AFCP 2.0.
   The after final amendment cannot be reviewed and a search conducted within the guidelines of the pilot program.

   ☐ The after final amendment will be treated under pre-pilot procedure.

   B. Updated search and/or completed additional consideration.
   The examiner performed an updated search and/or completed additional consideration of the after final amendment within the time authorized for the pilot program. The result(s) of the updated search and/or completed additional consideration are:

   ☑ 1. All of the rejections in the most recent final Office action are overcome and a Notice of Allowance is issued herewith.

   ☐ 2. The after final amendment would not overcome all of the rejections in the most recent final Office action . See attached interview summary for further details.

   ☐ 3. The after final amendment was reviewed, and it raises a new issue(s). See attached interview summary for further details.

   ☐ 4. The after final amendment raises new issues, but would overcome all of the rejections in the most recent final Office action. A decision on determining allowability could not be made within the guidelines of the pilot. See attached interview summary for further details, including any newly discovered prior art.

   ☑ 5. Other: See Continuation Sheet

   Examiner Note: Please attach an interview summary when necessary as described above.

Petitioner Samsung Ex-1004, 0573

Continuation of Proper Request- B. 5. Other: Further amendments were needed to clarify previously withdrawn claims, see attached interview summary for further details.

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	("20030072117").PN.	US-PGPUB; USPAT	OR	OFF	2020/10/01 10:41
L2	34	(("20190304872") or ("20130265811") or ("6888729") or ("20120286717") or ("20030072117") or ("9090168") or ("20100025126") or ("20190115822") or ("8240411") or ("20130264872") or ("20120275205") or ("8376069") or ("20150289391") or ("20190254182") or ("20130128645") or ("20190098777") or ("8863869") or ("20150022974") or ("20180124935") or ("10178780") or ("9888591") or ("10321585") or ("9095079") or ("20170272002") or ("10381947") or ("20200187347") or ("20190296653") or ("10498334") or ("20160261178") or ("20110058400") or ("20090195068") or ("9774241") or ("8406026") or ("20160181940")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 10:46
L3	34	2 and (DC or (direct near current))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 10:49
L4	32	3 and (AC or (alternat$3 near current$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 10:49
L5	32	4 and conver$4	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 10:49
L6	31	5 and (substrate or base or board)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 10:50
L7	20	6 and shield$3	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 10:52

L8	20	7 and (driv$3 near circuit)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 10:52
L9	4	8 and (conver$4 near circuit)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 10:53
L10	20	8 and metal	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 10:53
L11	4	9 and metal	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 10:53
L12	16	10 not 11	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 10:54
L13	1	6 and grease	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 12:03
L14	22	6 and sensor	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 12:03
L15	3	14 not 10	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 12:03
L16	4	13 15	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 12:03
L17	1	2 and grease	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 12:05
L18	1	6 and adhesive	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 12:05
L19	3,948	((("KIM") near3 ("Yeonwoo")) OR (("KIM") near3 ("Hosaeng")) OR (("PARK") near3 ("Hoon")) OR (("JUNG") near3 ("Jinwoo"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 12:07

			; EPO; JPO; DERWENT			
L20	17	((("HAVERINEN") near3 ("Teemu")) OR (("KELLONIEMI") near3 ("Marko")) OR (("HAUTALA") near3 ("Tomi")) OR (("KOSKELA") near3 ("Markku")) OR (("KIVELÄ") near3 ("Kari"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/10/01 12:07
L21	8	((("YU") near3 ("Cheng-Han")) OR (("HSIAO") near3 ("Ming-Huei")) OR (("TSAI") near3 ("Chung-Hsin"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/10/01 12:09
L22	420	((("BAILEY") near3 ("Mark")) OR (("MIDDLETON") near3 ("Anthony"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/10/01 12:10
L23	147	((("WATAMURA") near3 ("Kenji")) OR (("MIZOGUCHI") near3 ("Fumitake")) OR (("YAMAUCHI") near3 ("Takehito")) OR (("TATSUNO") near3 ("Kazuya"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/10/01 12:10
L24	4,911	h05k5/0017.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 12:15
L25	922	h05k7/18.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 12:15
L26	31,013	g06f1/1626,1652,1681,1616.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 12:15

L31	6,339	g06f1/18,181,189.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 12:20
L32	2,178	h05k7/18,183,186.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 12:20
L36	6,462	h05k7/14,1485,1487,1488,1489,1491,1492.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 12:22
L38	267	haughton.xa.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 12:23
L39	1,442	haughton.xp.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 12:23
L40	1,709	38 39	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 12:23
L41	5,112	g06f1/1652.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 12:23
L42	58	40 and 41	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 12:23
L43	3,890	h05k7/1489,1491,1492.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 12:28
L44	3,969	h05k7/1489,1488,1487.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 12:29
L45	66	40 and 43	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 12:29
L46	70	40 and 44	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 12:29

L47	30	(("20200275563") or ("10001811") or ("10067536") or ("10185355") or ("20180196468") or ("20180335799") or ("20180196469") or ("10386886") or ("10481634") or ("10082827") or ("20190196543") or ("20190196544") or ("10416710") or ("20200089273") or ("20180196467") or ("10228722") or ("20200249723") or ("20190146556") or ("10409332") or ("20200249717") or ("20120001528") or ("8292377") or ("20180022547") or ("10414587") or ("20200241604") or ("20180017989") or ("9983633") or ("20200192436") or ("20080117577") or ("20180074557")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 12:43
L54	762	(("6870095") or ("7698491") or ("20120293932") or ("8737090") or ("7425685") or ("20180084664") or ("9832904") or ("10231353") or ("20030037953") or ("20080080146") or ("20040026105") or ("7172077") or ("7515427") or ("6424781") or ("6102214") or ("20070108139") or ("20060162948") or ("20060062538") or ("8127939") or ("7522804") or ("4901202") or ("7362941") or ("8500465") or ("10212842") or ("20040146266") or ("20060193590") or ("6556763") or ("20190129115") or ("7139461") or ("20170131501") or ("20140241691") or ("6535682") or ("6760531") or ("7333707") or ("20090022467") or ("20050100301") or ("20070291453") or ("7805043") or ("10684435") or ("7149398") or ("9389384") or ("9958629") or ("5224020") or ("8768134") or ("7580266") or ("20110058784") or ("9810868") or ("9429728") or ("20180120528") or ("8019192") or ("20170115462") or ("20110286712") or ("20140153892") or ("10067309") or ("20110075983") or ("20130177285") or ("9882362") or ("5982972") or ("8750669") or ("20140248029") or ("20160216471") or ("6223909") or ("20160313524") or ("6467633") or ("9971117") or ("9075218") or ("20120301083") or ("20170131503") or ("20170207615") or ("9494758") or ("9977212") or ("20100027952") or ("20150286022") or ("8391663") or ("9806510") or ("10481357") or ("20190137712") or ("20080130262") or ("7756380") or ("5828807") or ("6981750") or ("20150271938") or ("20110317971") or ("20030185535") or ("20020160660") or ("8173898") or ("8119915") or ("9179564") or ("20040231875") or ("20020170726") or ("20080062655") or ("6850685") or ("7528321") or ("7718889") or ("20020134567") or ("20130287356") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 12:44

		("20100314339") or ("20100275441") or ("20130287357") or ("20070123081") or ("6830466") or ("20180129006") or ("20040051426") or ("20170235076") or ("20150293323") or ("9069150") or ("20190137716") or ("6708830") or ("20200192046") or ("20160238812") or ("9057859") or ("10495833") or ("7778513") or ("20150338596") or ("7284998") or ("9715075") or ("6967283") or ("10082636") or ("9354416") or ("10678010") or ("20190187395") or ("9329353") or ("20090034166") or ("8061534") or ("8038015") or ("20020160631") or ("20100012370") or ("20180120527") or ("7675740") or ("6823063") or ("6219235") or ("7425682") or ("8106311") or ("20090034167")).PN. or (("20030121689") or ("20160091683") or ("20010002657") or ("20050185363") or ("20150181747") or ("7855872") or ("20130003263") or ("20110026193") or ("20160330870") or ("8867193") or ("8107225") or ("20030039094") or ("9943012") or ("9451729") or ("6992247") or ("20150169012") or ("7619868") or ("20120087051") or ("20060151190") or ("20100020475") or ("7358439") or ("20050215112") or ("20070291430") or ("8503149") or ("7940504") or ("20190075375") or ("20160309611") or ("10334748") or ("20030022552") or ("9524005") or ("20160309612") or ("20090323258") or ("20160087385") or ("8027134") or ("20050135767") or ("9578779") or ("20110256738") or ("20070291433") or ("20060025010") or ("9698549") or ("9949400") or ("8251707") or ("20120234778") or ("20110132855") or ("9214795") or ("9519119") or ("20110275242") or ("20110256742") or ("20160353603") or ("20160139354") or ("20080205028") or ("20140086545") or ("9195021") or ("5216579") or ("7488202") or ("10149401") or ("20060063421") or ("20190372068") or ("20100297874") or ("6918786") or ("20090142965") or ("20140367161") or ("6981893") or ("20060134972") or ("20180235094") or ("6866541") or ("7916502") or ("8605459") or ("7606014") or ("8938147") or ("20090090534") or ("7027706") or ("20060154513") or ("20180003913") or ("20050237724") or ("20160021779") or ("20120285950") or ("9326418") or ("20070217178") or ("20160309606") or ("8842445") or ("7089971") or ("7682187") or ("8749956") or ("20050016617") or				

		("20170082815") or ("10359594") or ("9810869") or ("20170020025") or ("20110242788") or ("20150181752") or ("7979985") or ("20160380397") or ("20120212909") or ("20180188466") or ("20160103289") or ("10732371") or ("9865976") or ("9106064") or ("20190250353") or ("10123444") or ("20170146762") or ("10209471") or ("9851523") or ("7760516") or ("20160033734") or ("8243470") or ("20040099771") or ("9348106") or ("20140341523") or ("9523833") or ("20140248028") or ("9801302") or ("20110228473") or ("8068351") or ("20140069680") or ("20090261211") or ("20180252888") or ("20110267794") or ("8976530") or ("9128262") or ("8212427") or ("20120113613") or ("20200124813") or ("20190075676") or ("9851524") or ("20180372979") or ("20160276812") or ("20150212286") or ("20200257071")).PN. or (("20090305553") or ("8923013") or ("20150296666") or ("20080112152") or ("10545307") or ("9912127") or ("20040050808") or ("6748155") or ("10509187") or ("9265172") or ("6796437") or ("20050041947") or ("20180136422") or ("6185098") or ("9886068") or ("20150245530") or ("10627593") or ("20160047999") or ("20160261060") or ("9313935") or ("20100086275") or ("20040011750") or ("20100193450") or ("20170262028") or ("20160247003") or ("7313000") or ("6715619") or ("10342161") or ("20190045667") or ("9698538") or ("8400765") or ("20120069514") or ("8526774") or ("10175440") or ("4559410") or ("20110164853") or ("20060228087") or ("20100172087") or ("20130188309") or ("10291969") or ("9392723") or ("9122462") or ("20040013390") or ("9684806") or ("20150373881") or ("20180070475") or ("20140144852") or ("9823432") or ("8472775") or ("20040011547") or ("20190227250") or ("9820408") or ("8191841") or ("20040011546") or ("7677400") or ("8899424") or ("20100316346") or ("10098262") or ("20200033544") or ("20090245746") or ("7719835") or ("6164369") or ("8155494") or ("7764859") or ("20180335595") or ("20160370553") or ("9038831") or ("20130039629") or ("6677520") or ("9980017") or ("10684436") or ("20090257726") or ("8472183") or ("20180314026") or ("10310206") or ("8705927") or ("9335786") or ("9958631") or ("20160192037") or ("6396990") or ("8422847") or ("6603660") or ("20190033548") or ("10310568") or ("9678544") or				

		("20160211632") or ("8315498") or ("8416565") or ("20170111248") or ("20190302387") or ("10268014") or ("10345546") or ("7229050") or ("20030194902") or ("9788090") or ("20140133823") or ("20030228121") or ("10374921") or ("20160209887") or ("8411465") or ("6541705") or ("4268099") or ("8934751") or ("8477491") or ("20160073181") or ("6845206") or ("20150362692") or ("20150077935") or ("20140268597") or ("9448377") or ("10044156") or ("20120293951") or ("7983521") or ("8562358") or ("20170285288") or ("10477719") or ("20050122701") or ("8798429") or ("9198308") or ("20070242420") or ("20110043371") or ("6948969") or ("20180242054") or ("7478730") or ("9885846") or ("7054163") or ("6661656") or ("7599599") or ("9606318") or ("20070190815") or ("20160327769") or ("20060118321") or ("10768386") or ("9678296")).PN. or (("7087840") or ("8469203") or ("9538262") or ("9995898") or ("20130130516") or ("7822313") or ("7555193") or ("20110211328") or ("20090273915") or ("20030048606") or ("6351592") or ("20190380221") or ("20150241653") or ("7764857") or ("7612470") or ("6600107") or ("20160062069") or ("20160215901") or ("8727456") or ("20200153182") or ("20110211329") or ("10436998") or ("20170199346") or ("20140178025") or ("20060181398") or ("10723400") or ("9441762") or ("10292206") or ("9170392") or ("9341802") or ("20180131147") or ("20190289744") or ("20180249534") or ("7508297") or ("20150362691") or ("9846291") or ("20200267853") or ("20060063509") or ("8358900") or ("10054751") or ("20110317974") or ("9888524") or ("20200153183") or ("8851902") or ("10126516") or ("20180323594") or ("8565572") or ("7974105") or ("9529171") or ("20190342945") or ("20060067068") or ("20100110628") or ("6175079") or ("8991623") or ("20190196128") or ("7090084") or ("20080175554") or ("9632271") or ("6215069") or ("10490989") or ("20200153180") or ("7142765") or ("20180329166") or ("7119282") or ("20180372972") or ("10736179") or ("20070232134") or ("10547148") or ("20150116976") or ("20150357798") or ("6538904") or ("9412496") or ("20150077924") or ("5398161") or ("20050232566") or ("8437147") or ("20080219634") or ("20180090913") or ("20040007372") or ("8208480") or ("8002123") or ("9936603") or ("20180090914") or ("7463812") or ("7331473") or ("10587098") or ("7804685") or				

		("9326415") or ("20090067803") or ("8254738") or ("6605782") or ("10527809") or ("20150289405") or ("9020319") or ("8107238") or ("6438309") or ("20140360752") or ("20100061059") or ("6489565") or ("7086539") or ("20090190307") or ("20170248766") or ("20170325353") or ("8934252") or ("20150219869") or ("10305262") or ("9213363") or ("20110116758") or ("20050265013") or ("5095403") or ("20020125800") or ("10151896") or ("6909611") or ("9089068") or ("20100272409") or ("20110019362") or ("20150177780") or ("10585259") or ("20170164503") or ("7766701") or ("20030223199") or ("20160192527") or ("20120194999") or ("9553669") or ("20190064460") or ("20080023212") or ("20200153179") or ("20170164502") or ("20040094491") or ("8750670") or ("10021805") or ("20080050084")).PN. or (("7455527") or ("20040262024") or ("20110235986") or ("20150077923") or ("8018725") or ("9867310") or ("20060237377") or ("20120133524") or ("20150362689") or ("20200245494") or ("9674981") or ("20100108376") or ("20110211801") or ("9784936") or ("20110038591") or ("7899299") or ("20120111809") or ("20200153181") or ("6584267") or ("7857688") or ("8737068") or ("9232677") or ("20110136353") or ("20140245589") or ("20150195945") or ("6920274") or ("6631237") or ("20080303392") or ("20150260936") or ("9223105") or ("9632274") or ("20030202317") or ("9198320") or ("9532482") or ("20130134116") or ("20090086441") or ("20170102506") or ("20040074852") or ("8934253") or ("20050286235") or ("7460375") or ("7495931") or ("20090223909") or ("20200153184") or ("20050122676") or ("8403154") or ("10575429") or ("20050135768") or ("20050085120") or ("20100172077") or ("20160154423") or ("9549484") or ("20110297629") or ("20140071602") or ("20120013229") or ("20130266283") or ("10021804") or ("20080116153") or ("20110051341") or ("8040673") or ("6953896") or ("20100314340") or ("9535230") or ("20180192537") or ("20030081386") or ("8127941") or ("20120012714") or ("8655137") or ("20080298763") or ("20170354053") or ("7220150") or ("20070075026") or ("6321917") or ("20060193591") or ("8737067") or ("20090154129") or ("7692928") or ("20060118497") or ("7189924") or				

		("20100195969") or ("20190137715") or ("9532481") or ("6407933") or ("8582292") or ("10674625") or ("7924570") or ("20100003000") or ("20130170810") or ("8464984") or ("7748541") or ("20100012599") or ("10236648") or ("20160212876") or ("20150309280") or ("6435354") or ("20070189693") or ("20110317973") or ("20150296652") or ("8457464") or ("8472774") or ("9119329") or ("20170235077") or ("20020129959") or ("7083051") or ("20140254074") or ("20150065028") or ("7367823") or ("9125326") or ("20190372283") or ("20140334099") or ("7620287") or ("20130140915") or ("6927974") or ("6728461") or ("9081164") or ("10624232") or ("7513374") or ("7715210") or ("20030046452") or ("20180199117") or ("6964588") or ("20050122677") or ("20190072736") or ("5101320") or ("20110120765") or ("9408331") or ("20190075685") or ("20170152969") or ("20130077927") or ("7037143") or ("20150366092")).PN. or (("8610316") or ("20110044599") or ("9801308") or ("20170271853") or ("8746466") or ("20100133391") or ("7298951") or ("9338524") or ("20100080512") or ("8053672") or ("7017267") or ("9768591") or ("20090091909") or ("20180252335") or ("9986655") or ("RE46255") or ("6364439") or ("20170265333") or ("20050201073") or ("9374928") or ("6748458") or ("20180183183") or ("20050277327") or ("10568239") or ("10334761") or ("7259325") or ("10103531") or ("9879800") or ("20190313551") or ("RE45153") or ("20080247132") or ("9466964") or ("20190004260") or ("7453706") or ("20040078827") or ("20050157461") or ("20050245127") or ("20190135362") or ("8307996") or ("20030190035") or ("9606317") or ("10084262") or ("9801309") or ("20180239098") or ("20150351289") or ("9817202") or ("20030174996") or ("20140161410") or ("20170023760") or ("20100166378") or ("7553161") or ("20090002139") or ("10345538") or ("6836030") or ("20160066478") or ("6909833") or ("20090081888") or ("10048452") or ("6307750") or ("20030224645") or ("8290330") or ("20140240909") or ("6893299") or ("9348104") or ("20090161322") or ("20180288896") or ("20110142406") or ("7116777") or ("7252524") or ("RE48063") or ("20200187387") or ("10261281") or ("20180081139") or ("5613030") or ("20160088757") or ("7771203") or ("20200003983") or ("8351753") or				

		("20190113704") or ("20200137919") or ("20090263980") or ("7751206") or ("20120170227") or ("6637845") or ("7420805") or ("20200110238") or ("8714368") or ("20160139347") or ("20110056895") or ("20140292167") or ("10765037") or ("20140376870") or ("10631441") or ("7022916") or ("20120087627") or ("20130094827") or ("20020118524") or ("10261279") or ("20150201516") or ("20100304577") or ("20120120602")).PN.				
L58	309	(("20180103902") or ("9861314") or ("20170042477") or ("20200245487") or ("20110186347") or ("10543528") or ("5163499") or ("20200139431") or ("20130196169") or ("5526867") or ("20120093498") or ("8532480") or ("4120930") or ("20140347834") or ("20190099859") or ("4445274") or ("4604677") or ("20080296753") or ("7563646") or ("5458480") or ("4889760") or ("6229249") or ("6835898") or ("8097816") or ("8028739") or ("20160031128") or ("20110255850") or ("20100246146") or ("9750322") or ("20030173720") or ("6939505") or ("20150148876") or ("10463125") or ("20150111673") or ("20160255929") or ("20160353616") or ("9842243") or ("20100314176") or ("20010020545") or ("20150077910") or ("8906515") or ("20170360167") or ("6998533") or ("20010020546") or ("20160354801") or ("20050117271") or ("10730104") or ("9844903") or ("8727043") or ("20100304065") or ("9683410") or ("9568062") or ("20020058107") or ("20020117330") or ("10474194") or ("20200288593") or ("9561562") or ("9632537") or ("20110255250") or ("6228453") or ("9506629") or ("20150085429") or ("9907498") or ("20140216827") or ("20150243937") or ("8464626") or ("20200205307") or ("20090234459") or ("20150190864") or ("20140016303") or ("20120244344") or ("20160066825") or ("20110287223") or ("5188164") or ("9939850") or ("20110189440") or ("9303322") or ("20100078343") or ("10705570") or ("4822759") or ("7109410") or ("4766671") or ("20120186427") or ("20110090626") or ("5356720") or ("5994648") or ("5280819") or ("20160259377") or ("9756731") or ("5247986") or ("20160274621") or ("20010048985") or ("9852962") or ("20150334845") or ("9315663") or ("9678540") or ("10043049") or ("9878369") or ("10661337") or ("7002803") or ("6686003") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 12:47

		("8020289") or ("9904321") or ("9555470") or ("9309767") or ("5525385") or ("6778406") or ("10207315") or ("20150085432") or ("20160082502") or ("5340655") or ("10394280") or ("5585190") or ("20030161109") or ("20100242273") or ("10547717") or ("9387533") or ("20130149182") or ("20200229296") or ("20100065963") or ("9206309") or ("20160343636") or ("10444799") or ("20170316247") or ("8947303") or ("10278644") or ("20130204157") or ("20110287203") or ("7269986") or ("20120157175") or ("4871008") or ("20150290771") or ("9780474")).PN. or (("20130338267") or ("20200154839") or ("8784713") or ("20130143058") or ("9634378") or ("20150233561") or ("20180157289") or ("8564961") or ("20190329455") or ("9257310") or ("20030178747") or ("8485418") or ("20130256944") or ("20190019826") or ("8916248") or ("20140113415") or ("20170093070") or ("7215010") or ("10645796") or ("20100001815") or ("8394473") or ("8247050") or ("10037972") or ("6483719") or ("9426892") or ("7923068") or ("9500351") or ("20120321906") or ("20050064707") or ("8486319") or ("6110823") or ("20130108813") or ("7225538") or ("4998578") or ("20150214600") or ("20160231787") or ("10631785") or ("8844607") or ("20160322333") or ("20200258832") or ("6157548") or ("10587024") or ("20080149295") or ("8394507") or ("7482272") or ("20040200550") or ("9701248") or ("6727579") or ("20190344514") or ("20120240755") or ("10627783") or ("20070108634") or ("20080142186") or ("20100304063") or ("7666788") or ("20160338228") or ("20160236387") or ("10537044") or ("7692292") or ("10350733") or ("20200229295") or ("20080142182") or ("10736226") or ("10702958") or ("10225932") or ("6988668") or ("20200053896") or ("20170110386") or ("20190099603") or ("7024897") or ("20110057018") or ("8911878") or ("20080149294") or ("20080047679") or ("20150329054") or ("20140247565") or ("20120188734") or ("20160375486") or ("10153799") or ("20160168919") or ("20070166991") or ("20060117825") or ("20100304171") or ("10399144") or ("20070228110") or ("8197730") or ("10372166") or ("7333839") or ("9096421") or ("20060281243") or ("5961222") or ("5163498") or ("20200276676") or ("10757805") or ("10222756") or ("20140231979") or ("10717130") or ("20110028240") or ("7345350") or ("20130196170") or ("6504729") or				

		("20190142574") or ("10345672") or ("20170111077") or ("20040231822") or ("20180299834") or ("8415246") or ("20180236615") or ("7413691") or ("20150092360") or ("7343960") or ("20180017995") or ("10432768") or ("8550144") or ("20110159683") or ("20090020257") or ("20090141459") or ("20190222683") or ("20050154113") or ("20200084885") or ("20100151217") or ("6992250") or ("20170068143") or ("20080193739") or ("20060220202") or ("9578769") or ("20050207092") or ("20170239055") or ("20110081437") or ("20080149296")).PN. or (("8994608") or ("9763791") or ("20180236557") or ("7836938") or ("20130320823") or ("5682594") or ("8181692") or ("20110132793") or ("20070264513") or ("8851152") or ("7407146") or ("7824494") or ("20080135204") or ("10191348") or ("7418993") or ("10034402") or ("6932145") or ("7779890") or ("20200229761") or ("20190160719") or ("7786592") or ("20180238173") or ("20080142185") or ("8082976") or ("8985185") or ("20150201918") or ("20100151168") or ("20130318772") or ("20170167260") or ("8087446") or ("10018966") or ("10770493") or ("20140008374") or ("20010053421") or ("20180083342") or ("20170261830") or ("5935502") or ("6262480") or ("7608904") or ("7382045") or ("20080169081") or ("20010031349") or ("20150185872") or ("20050269055") or ("20150295615") or ("20160026340")).PN.				
L63	403	(("20160357223") or ("20200068054") or ("9985345") or ("10701194") or ("20160302319") or ("20170133746") or ("10305165") or ("20170142241") or ("10075569") or ("20180109132") or ("20190007533") or ("20160173170") or ("9298226") or ("20140334087") or ("10735051") or ("20150194997") or ("20160119014") or ("9362972") or ("20200162591") or ("9264090") or ("20180128924") or ("9917346") or ("20180375973") or ("10652374") or ("10381875") or ("20190305404") or ("20160072177") or ("20140225787") or ("8648752") or ("10778819") or ("20120001815") or ("9882284") or ("8547283") or ("10027023") or ("20180343332") or ("20180123223") or ("10596736") or ("20160380338") or ("20160072554") or ("9876275") or ("10033089") or ("10016921") or ("10272605") or ("20170207518") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 12:49

		("20160324025") or ("20180311875") or ("20160070393") or ("20190217513") or ("10050335") or ("20170117614") or ("9702051") or ("20190214706") or ("20120319913") or ("20150167193") or ("10374287") or ("9245866") or ("10446916") or ("20100328182") or ("20110090634") or ("20090273521") or ("8077578") or ("7932865") or ("20150244061") or ("20120206302") or ("20170201013") or ("8698673") or ("9431696") or ("20140327593") or ("9680212") or ("10283846") or ("10141632") or ("20160066859") or ("20160066858") or ("10547717") or ("20180198196") or ("20130335644") or ("9363459") or ("20170288298") or ("20160070339") or ("20150372372") or ("10700414") or ("20160254589") or ("20200153092") or ("20150297145") or ("20150359491") or ("20160066857") or ("9647323") or ("10566687") or ("20200205307") or ("9516150") or ("8159411") or ("20170117623") or ("20200245487") or ("20200288593") or ("20170019510") or ("20150050968") or ("20170301978") or ("10361475") or ("20090219640") or ("10283838") or ("20200136243") or ("20170331173") or ("20090315805") or ("20190206962") or ("20160234362") or ("10027020") or ("20180212305") or ("20190254185") or ("10629982") or ("20130300615") or ("9578149") or ("20150171916") or ("20170351297") or ("20170346164") or ("9203463") or ("20200252492") or ("10321590") or ("20170149940") or ("10446632") or ("8816914") or ("9952622") or ("20200092408") or ("9190711") or ("20180302984") or ("20180309191") or ("20120025939") or ("10530912") or ("20200187368")).PN. or (("20190229771") or ("10187982") or ("20150138021") or ("20170285844") or ("20180062256") or ("10474282") or ("20190334236") or ("20150270619") or ("20110018783") or ("10347985") or ("10714825") or ("9559425") or ("10288871") or ("20150147513") or ("20180069312") or ("20140126172") or ("10601133") or ("20110050508") or ("20170170689") or ("8269677") or ("9484621") or ("10680661") or ("20190181891") or ("8207895") or ("20150123860") or ("20140247188") or ("9259591") or ("20200186179") or ("10686246") or ("9184502") or ("9466871") or ("9967378") or ("20170187851") or ("20200303810") or ("20180220972") or ("20130257662") or ("20140340280") or ("20170047641") or				

		("8927881") or ("10186754") or ("20200279688") or ("20140197992") or ("20160050302") or ("9214388") or ("20040052202") or ("20200037460") or ("20120039058") or ("10050332") or ("10674623") or ("20160233573") or ("9178274") or ("9160058") or ("20170257148") or ("20140118198") or ("20180109295") or ("20130135157") or ("9437931") or ("20150349408") or ("8841777") or ("10069192") or ("10665924") or ("10128915") or ("9876538") or ("20150077298") or ("20200284959") or ("9680203") or ("20190321097") or ("10409053") or ("10420235") or ("20180175484") or ("9699279") or ("10727569") or ("20130171773") or ("20170371149") or ("20170020012") or ("20170302766") or ("10003679") or ("20110168434") or ("20200287275") or ("9794382") or ("20200127404") or ("20170006143") or ("20160006293") or ("20170149139") or ("20170155198") or ("10261310") or ("8675373") or ("9397727") or ("20180183137") or ("10038249") or ("10003130") or ("9673507") or ("20160073160") or ("20130235541") or ("20090160717") or ("20170347470") or ("20100164818") or ("9813764") or ("20200076057") or ("20130321220") or ("20180287302") or ("20160309007") or ("20190237848") or ("10396431") or ("20160072302") or ("9654164") or ("6483719") or ("20060012969") or ("7506436") or ("20030016519") or ("10159156") or ("10355415") or ("20180301792") or ("20060214866") or ("9871384") or ("7511679") or ("20140230524") or ("20160064822") or ("20180097275") or ("8686908") or ("10468746") or ("7013558") or ("20200127365") or ("20080251009") or ("20110122027") or ("20160276749") or ("20200076056") or ("10627922") or ("20120176148")).PN. or (("20180108506") or ("20140198006") or ("9059504") or ("8908371") or ("10290934") or ("9722313") or ("8436774") or ("10003120") or ("20170352955") or ("20180069294") or ("20180277304") or ("10374310") or ("9590308") or ("10276337") or ("9575040") or ("8723534") or ("3824757") or ("10327348") or ("20110181476") or ("20150002348") or ("20130050038") or ("20150070232") or ("20180103557") or ("20110123852") or ("20190223310") or ("20190057950") or ("20180138584") or ("20150270325") or ("10211520") or ("9701248") or ("10141635") or ("9548345") or ("20130207928") or ("20150329054") or ("20160028172") or				

		("20130241579") or ("8861198") or ("10524372") or ("8574767") or ("20200014089") or ("20190102011") or ("8038069") or ("20160327980") or ("20150249282") or ("20140015724") or ("20170033442") or ("9748636") or ("9176619") or ("10521049") or ("10290923") or ("20150357300") or ("9112280") or ("20200153064") or ("9972898") or ("9160075") or ("20160234949") or ("20180241430") or ("20180102588") or ("20200183020") or ("20160327986") or ("20200097102") or ("20120326813") or ("20160330852") or ("9281537") or ("20190109382") or ("20150034825") or ("20200151534") or ("9578759") or ("4218578") or ("10345672") or ("20180286924") or ("20130312255") or ("9966651") or ("20130319865") or ("20170068143") or ("20180249097") or ("10191348") or ("9024826") or ("20180041239") or ("20190058781") or ("10777899") or ("20130335278") or ("20200153115") or ("9056584") or ("9559412") or ("20170261830") or ("10074891") or ("9780450") or ("10355059") or ("8864039") or ("20150315715") or ("9537983") or ("20160344096") or ("10341477") or ("20160134730") or ("20120182186") or ("8779988") or ("20180069299") or ("9279189") or ("10330918") or ("20140240176") or ("20120229882") or ("10231352") or ("20170279943") or ("10224663") or ("9420713") or ("9985679") or ("20200005114") or ("20120132718") or ("10783426") or ("20190237855") or ("10700145") or ("10658733") or ("20190259819") or ("9761971") or ("20130135156") or ("20120326943") or ("10411329") or ("10122401") or ("20140354486") or ("20170207524") or ("20180323496") or ("10218827") or ("20190007085") or ("20160072337") or ("20140300518") or ("20150097735") or ("20190393919") or ("20060171823")).PN. or (("20140132084") or ("10147999") or ("8810457") or ("9048543") or ("10483626") or ("10297906") or ("20130319872") or ("20110037541") or ("20040201531") or ("20160351995") or ("10516202") or ("20140185857") or ("20180226740") or ("20160380333") or ("10490883") or ("20200127384") or ("20180070465")).PN.				
L64	43	(("20200253078") or ("20200253082") or ("20120224350") or ("8406011") or ("20120250233") or ("20120243196") or ("8456862") or ("20060126288") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/10/01 12:51

		("20170257962") or ("7369403") or ("9848503") or ("20080000849") or ("20110273822") or ("8248768") or ("20100072153") or ("7495908") or ("20130119215") or ("8371454") or ("8770528") or ("8307507") or ("20100319163") or ("20040125550") or ("20140139998") or ("20150173510") or ("6809922") or ("6788532") or ("20120074279") or ("20180281636") or ("20040042168") or ("10086723") or ("20180281744") or ("8693182") or ("10086792") or ("5903993") or ("6483696") or ("20200090706") or ("20110222217") or ("8451593") or ("20160073742") or ("20140294537") or ("10789991") or ("10292460") or ("10736420")).PN.				
S1	1	"9635530".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 00:36
S2	1	"9870030".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 00:36
S3	2	S1 S2	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 00:36
S4	267	haughton.xa.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 00:40
S5	1,363	haughton.xp.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 00:40
S6	1,630	S4 S5	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 00:40
S7	988	g06f1/1669.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 00:40
S8	25	S6 and S7	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 00:40
S9	415	S7 and (laptop or (lap near top))	US-PGPUB;	OR	OFF	2019/12/05 00:42

			USPAT; USOCR			
S10	219	S7 and (laptop or (lap near top))	USPAT	OR	OFF	2019/12/05 00:43
S11	1	"9632530".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 00:51
S12	4,772	349/58.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 01:38
S13	23,117	345/173.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 01:39
S14	15,281	g06f1/20-206.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 01:43
S15	14,127	g06f1/18-189.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 01:43
S16	203	S6 and S14	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 01:43
S17	248	S6 and S15	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 01:43
S18	1	"10372167".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 02:19
S19	1	"10095274".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 02:25
S20	1	"20040246666"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 02:27

S21	3,631	g06f1/187.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 02:55
S22	98	S6 and S21	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 02:55
S23	1	"10228734".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 03:08
S24	2	"20080278856"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 03:14
S25	4	("20150169006" | "20160370828" | "20160164852" | "20160370828" | "20160195901").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 09:00
S26	2	"20160370828"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 09:01
S27	5	S25 S26	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 09:01
S28	2	"20180164852"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 09:01
S29	7	S27 S28	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 09:01
S30	218	((("LARGE") near3 ("Timothy")) OR (("GHIONI") near3 ("Lincoln")) OR (("BABU") near3 ("Sarat")) OR (("LONGBOTTOM") near3 ("Matthew")) OR (("CARTER") near3 ("Duncan"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/12/09 09:07
S31	161	(("20190173041") or ("10143080") or ("9823693") or ("9560751") or ("20160065920") or ("20180052486") or ("20170238412") or ("20160037625") or ("10289163") or ("10201089")	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 09:08

		or ("20190305237") or ("20170235341") or ("7349203") or ("20150378391") or ("9971382") or ("9848494") or ("20180004252") or ("20170034918") or ("20180054897") or ("20160266672") or ("7136280") or ("6819550") or ("7773371") or ("20170060188") or ("10495941") or ("20190265758") or ("20190207130") or ("20160374228") or ("10345858") or ("20180062094") or ("20180219165") or ("9756757") or ("20040233623") or ("10411205") or ("20180097199") or ("20170075464") or ("10418572") or ("20170162821") or ("10121988") or ("20160179229") or ("20170371465") or ("20170287385") or ("9535522") or ("20180335679") or ("9766737") or ("9983714") or ("20070014084") or ("20190317550") or ("20040228080") or ("7145768") or ("10254795") or ("20160327987") or ("20170160769") or ("20070201197") or ("20050041048") or ("9874904") or ("20160336523") or ("20160181345") or ("9490312") or ("7218510") or ("20130271940") or ("20030086240") or ("20050088814") or ("9655267") or ("20160093685") or ("9812659") or ("7209344") or ("20040218352") or ("9425418") or ("20050088812") or ("20100039350") or ("20180090713") or ("20040257755") or ("20170323934") or ("20190075669") or ("20160240602") or ("20160183364") or ("10068960") or ("20160268546") or ("20170194411") or ("20160093644") or ("9748322") or ("20160155788") or ("9847506") or ("7046509") or ("10229963") or ("20160172623") or ("9349758") or ("20180062090") or ("9627463") or ("D487893") or ("7142415") or ("D489370") or ("9935281") or ("9379355") or ("20060176655") or ("20170179423") or ("7035092") or ("20170263890") or ("20170179215") or ("9818974") or ("20180123060") or ("20130279088") or ("9793334") or ("20070046594") or ("20190296259") or ("7965258") or ("9985086") or ("10186684") or ("20050036283") or ("20110018785") or ("20160099433") or ("D486486") or ("7289315") or ("9910458") or ("7042714") or ("20180092166") or ("8724304") or ("7738245") or ("10182474") or ("9558685") or ("20170290106") or ("9698375") or ("20130169515") or ("20160111028") or ("10103179") or ("20190082528") or ("20170301267") or ("20160048169") or ("20180197928")).PN. or (("9980326") or ("20170192460") or ("10212811") or ("20160174304") or ("20190268455") or				

		("10154562") or ("9274559") or ("10199445") or ("10319265") or ("6755533") or ("20100315575") or ("20170062485") or ("20180076236") or ("9706607") or ("20160181346") or ("6710754") or ("20030098832") or ("20130081756") or ("20110121151") or ("20070052617") or ("9759420") or ("9780157") or ("9684339") or ("8274623") or ("20190081276") or ("20190152129") or ("10304869") or ("10281956") or ("20160035759") or ("20160181572") or ("10245776")).PN.				
S32	1,559	g06f1/182.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 11:31
S33	14,173	g06f1/18-189.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 11:31
S34	1,062	g11b33/14,022.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 11:32
S35	1,744	h05k5/069,026,006,0047,0043,0039,0034.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 11:33
S36	11,330	G06F1/169,1698,16847,1643,1662.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 11:39
S37	34,285	G06F3/03547,044.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 11:39
S38	3,747	H05K5/0226,0239,03.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 11:39
S39	13,718	G06F1/169,1698,1684,1643,1662.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 11:41
S40	3,050	((("CHANG") near3 ("Ching")) OR (("MCKITTRICK") near3 ("Allen"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	OFF	2019/12/09 11:41

			DERWENT			
S41	18	(("20110151780") or ("20170317709") or ("20160006488") or ("9231673") or ("20190369674") or ("20180210508") or ("10429901") or ("6967280") or ("20040105411") or ("7580395") or ("20170179996") or ("9692478") or ("20180210515") or ("20180210514") or ("20170310002") or ("10198044") or ("20190288388") or ("10156871")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 11:45
S42	9	("20020080297" | "20140092532" | "20140146452" | "20150241916" | "20150316090" | "20160266619" | "6744622" | "8066308" | "9461390").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 12:29
S43	31,883	G06F1/1626,1656,1601,1633,1637,1656,163.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 12:33
S44	214	((("LARSEN") near3 ("Denica")) OR (("HO") near3 ("Wing"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/12/09 12:34
S45	268	((("SEO") near3 ("Jae-Il")) OR (("KIM") near3 ("Ki-Jae")) OR (("KIM") near3 ("Ji-Hoon")) OR (("LEE") near3 ("Dong-Ik"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/12/09 12:34
S46	0	g06f1/1626,1635,1658,1633	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 12:52
S47	16,483	g06f1/1626,1635,1658,1633.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 12:52
S48	7,826	361/679.21-679.3,679.55,679.56.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 12:52
S49	10,564	455/575.1-575.9.CCLS.	US-PGPUB;	OR	OFF	2019/12/09 12:53

			USPAT; USOCR			
S50	5,977	349/56-60.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 12:53
S51	1	("20170003716").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 12:56
S52	11	(("20190025880") or ("20100044553") or ("20100044815") or ("20130177302") or ("20180321571") or ("20140176779") or ("8684613") or ("10018891") or ("20180126704") or ("20190158641") or ("20190144332")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:00
S53	12	S51 S52	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:13
S54	12	S53 and camera	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:13
S55	11	S53 and (glass)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:14
S56	10	S53 and (cover near2 glass)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:14
S57	10	S53 and (cover$3 near2 glass)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:14
S58	11	S54 and S55	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:14
S59	10	S54 and S56	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:14
S60	10	S54 and S57	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:14

S61	11	S58 S59 S60	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:14
S62	1	S61 and (curv$4 near2 display$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:14
S63	1	S61 and planarizat$3	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:16
S64	3	S61 and wavelength	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:18
S65	2	S61 and (refract$3 near3 index)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:19
S66	3	S64 S65	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:19
S67	5	S61 and (glass near4 (coat$3 or cur$3 or polymer))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:26
S68	4	S61 and (glass near3 (coat$3 or cur$3 or polymer))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:26
S69	5	S67 S68	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:27
S70	17,161	g06f1/1626,1643,1605.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:32
S71	17,656	g06f3/0412.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:32
S72	209	S70 and planarizat$3	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:32

S73	1,309	S71 and planarizat$3	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:32
S74	260	S73 and camera	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:33
S75	118	S72 and camera	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:33
S76	22	S74 and (cover near2 glass)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:33
S77	25	S75 and (cover near2 glass)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:33
S78	38	S76 S77	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:33
S79	7	S78 and (planarizat$3 near3 material$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:33
S80	31	S78 not S79	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:37
S81	7	(US-20160370828-$ or US-20190205596-$ or US-20120242635-$ or US-20110267298-$ or US-20130177302-$ or US-20180126704-$).did. or (US-9632530-$).did.	US-PGPUB; USPAT	OR	OFF	2019/12/09 14:07
S82	1	S81 and polishing	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 14:07
S83	2	S81 and curv$3	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 14:08
S84	51	S53 S54 S55 S56 S57 S58 S59 S60 S61 S62 S63 S64 S65 S66 S67 S68 S69 S76 S77 S78 S79 S80 S81 S82 S83	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 14:10

S85	2	S84 and (curv$3 near display)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 14:11
S86	22,595	G06F1/1626,1605,1613,1637,1643,1686.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 14:19
S87	17,656	G06F3/0412.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 14:19
S88	13,803	G06F1/1626.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 14:20
S89	602	S88 AND (COVER NEAR GLASS)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 14:20
S90	0	S89 AND (curved near dispay)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 14:20
S91	0	S88 AND (curved near dispay)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 14:20
S92	24	S89 AND (curved near display)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 14:21
S93	1	"20180126704"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 14:30
S103	9,044	g06f1/1632.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 20:54
S104	6,987	h02j50/80.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 20:55
S105	755	S104 and (dock$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 20:58

S106	755	S104 and (dock$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 20:58
S107	719	S106 and (tablet or computer or ((notebook or portable or laptop or (lap near top) near computer) or laptop or (lap near top)))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 20:58
S108	564	S107 and (charg$3 near2 (wireless or (wire near less)))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 20:59
S109	544	S108 and (ports or (input$1 and output$1) or peripheral$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 21:00
S110	0	S109 and (high near speeed)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 21:01
S111	204	S109 and (high near speed)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 21:01
S112	225	(("20180307275") or ("20190237985") or ("9401621") or ("20150263565") or ("9729003") or ("20170070076") or ("9608475") or ("20170070077") or ("9577467") or ("9444276") or ("20140191713") or ("20130205060") or ("20150008876") or ("20150084583") or ("9831030") or ("20130307468") or ("9263910") or ("20150222138") or ("9325187") or ("20160141884") or ("9979236") or ("20160118179") or ("20090001929") or ("20190158136") or ("20160006291") or ("20120294463") or ("20160190853") or ("8559659") or ("7825625") or ("9806555") or ("20140347008") or ("20180198312") or ("9461479") or ("20150011160") or ("10305316") or ("9742214") or ("20160043590") or ("9088305") or ("20180054077") or ("9444289") or ("20130062961") or ("20150318898") or ("9293929") or ("20140191717") or ("20170274778") or ("9319109") or ("9969282") or ("20150008756") or ("20160164308") or ("20190058332") or ("9825672") or ("20120299389") or ("10135260") or ("9094059") or ("20160134149") or ("20080119241") or ("9660486") or ("20170090516") or ("9300147") or ("10084338") or ("20130002038") or	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 21:02

		("20160372961") or ("20150326053") or ("20190207423") or ("8170623") or ("20160308397") or ("20180074547") or ("20160001663") or ("20190363565") or ("10256666") or ("10461581") or ("10122184") or ("20180069423") or ("20130057078") or ("20160079801") or ("10333333") or ("20140021909") or ("9793744") or ("20160141910") or ("9306401") or ("9722540") or ("20120139484") or ("20140368053") or ("9821672") or ("20150035474") or ("9819216") or ("9124105") or ("20140153491") or ("20110057607") or ("20150115885") or ("20180358826") or ("20160072327") or ("20190310685") or ("20160233728") or ("8928284") or ("20150137746") or ("9503178") or ("10164482") or ("9287732") or ("9252629") or ("20150095533") or ("9961433") or ("9826301") or ("9794673") or ("9967650") or ("9577448") or ("9883277") or ("20180323636") or ("10135498") or ("20170093454") or ("20160329755") or ("20180131847") or ("20150078461") or ("20170347182") or ("20190222052") or ("20160134334") or ("9184802") or ("20180109148") or ("10193398") or ("20190348868") or ("20160285299") or ("20160172895") or ("20180262057") or ("20140009109") or ("20160372960") or ("20150130409") or ("9287039") or ("9997951") or ("20180098366")).PN. or (("20130175986") or ("20170305280") or ("20150091508") or ("20150162785") or ("20190074867") or ("10411517") or ("20180262055") or ("10000133") or ("20150188352") or ("20170093224") or ("20150188356") or ("20170141604") or ("10277056") or ("20150091496") or ("9843226") or ("20140266021") or ("20170201123") or ("9793739") or ("20190222062") or ("9769558") or ("20170018954") or ("20190312460") or ("9923408") or ("20180109147") or ("20130005252") or ("20170094399") or ("20190081518") or ("20180375390") or ("20180337548") or ("10291068") or ("10483806") or ("9627918") or ("10230278") or ("10039147") or ("20170117757") or ("9166654") or ("10320245") or ("20160276865") or ("20170207663") or ("20170264341") or ("20170094396") or ("10097913") or ("9397505") or ("10355515") or ("9692248") or ("9843214") or ("9967649") or ("20140145515") or ("10079513") or ("10286862") or ("20160241086") or ("20140242911") or ("10063107") or ("20170094392") or ("20140354223") or ("9883274") or ("10182282") or				

		("10003880") or ("9692487") or ("20140354222") or ("20170094394") or ("20170094397") or ("20190013687") or ("20170372836") or ("10097041") or ("8437695") or ("10212506") or ("10397683") or ("20120153894") or ("20180115816") or ("9967648") or ("20190027965") or ("20170093453") or ("10068704") or ("10009678") or ("20190165619") or ("20190289382") or ("20160072338") or ("20190023141") or ("9961431") or ("20170094381") or ("20160181849") or ("9883276") or ("20170094398") or ("20190289383") or ("10333355") or ("9559754") or ("20180090998") or ("9379780") or ("10361591") or ("9413175") or ("10003881") or ("20170094393") or ("8527688") or ("20170094395") or ("20190044388")).PN.				
S113	186	S112 not S111	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 21:02
S114	6	(("20180107253") or ("20140021909") or ("20140036437") or ("20170090516") or ("20170063102") or ("20160320867")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 21:28
S115	1	"20170090516"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 21:31
S116	71	("20070217135" | "20130039000" | "20130329360" | "6612668" | "6643124" | "7471506" | "9124105" | "20100271771" | "20040057204" | "20060250764" | "6421235" | "6593859" | "6707666" | "6944012" | "20070101039" | "20090295328" | "8593804" | "20060056143" | "6256192" | "20090179501" | "20140133080" | "7916467" | "20050168937" | "20140273590" | "5719799" | "6093039" | "6430038" | "20080258679" | "20080304688" | "20100081473" | "20120113576" | "20150036275" | "20140098485" | "20140177162" | "20140185220" | "20140312202" | "5317691" | "5793606" | "6654234" | "20070035917" | "20140355190" | "20150198980" | "20010022719" | "7061472" | "8995121" | "9223344" | "20110210617" | "8688037" | "20090141439" | "20140334086" | "20140347802" | "9535456" | "20030128505" | "20100277856" | "20150277491" | "6006243" | "7349201" | "8199476" | "8937803" | "20060013411" | "20170060186" | "5030128" | "5175672" | "6781823" | "6989987" | "7667959" |	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 21:32

		"20100014235" | "20120188687" | "20130170126" | "7643283" | "9041347").PN.				
S117	43	S116 and wireless	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 21:33
S118	28	S116 not S117	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 21:39
S119	14	("6856506" | "6952343" | "5455466" | "5864708" | "5434964" | "D321179" | "20060159158" | "20040233930" | "7052296" | "D322063" | "20040145342" | "20050047055" | "20050083012" | "7054145").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 21:46
S120	120	("4734874" | "5127050" | "5142446" | "5209583" | "5227953" | "5237663" | "5245169" | "5283714" | "5375226" | "5430567" | "5465038" | "5493542" | "5546211" | "5559501" | "5561446" | "5598539" | "5600471" | "5617236" | "5628055" | "5632020" | "5668566" | "5668977" | "5675524" | "5682379" | "5687717" | "5699226" | "5701302" | "5724168" | "5794164").PN. OR ("5864708").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 21:56
S121	94	S120 and wireless	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 21:59
S122	26	S120 not S121	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 22:00
S123	2	"20180098366"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 22:30
S124	27	("20020119800" | "20040092249" | "20110131358" | "20110136550" | "20130084800" | "20130175986" | "20130210347" | "20130219098" | "20130288600" | "20130324035" | "20140059263" | "20140152235" | "20140349578" | "20150006395" | "20150318898" | "20160150354" | "20160285299" | "7825625" | "8254992" | "8255720" | "8805456" | "8825118" | "8947042" | "9020436" | "9496925" | "9627913" | "9755437").PN. OR ("10039147").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 22:31
S125	27	("20020119800" | "20040092249" | "20110131358" | "20110136550" | "20130084800" | "20130175986" | "20130210347" | "20130219098" | "20130288600" | "20130324035" | "20140059263" | "20140152235" | "20140349578" | "20150006395" | "20150318898"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 22:47

		| "20160150354" | "20160285299" | "7825625" | "8254992" | "8255720" | "8805456" | "8825118" | "8947042" | "9020436" | "9496925" | "9627913" | "9755437").PN. OR ("10039147").URPN.				
S126	1	"20180323636"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 22:51
S127	1	"20180358826"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 22:53
S128	8	("20120299966" | "20090096413" | "20130063873" | "20130113421" | "9531206" | "10037057" | "20060238164" | "20130063084").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 22:54
S129	120	("4734874" | "5127050" | "5142446" | "5209583" | "5227953" | "5237663" | "5245169" | "5283714" | "5375226" | "5430567" | "5465038" | "5493542" | "5546211" | "5559501" | "5561446" | "5598539" | "5600471" | "5617236" | "5628055" | "5632020" | "5668566" | "5668977" | "5675524" | "5682379" | "5687717" | "5699226" | "5701302" | "5724168" | "5794164").PN. OR ("5864708").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 22:57
S130	71	("20070217135" | "20130039000" | "20130329360" | "6612668" | "6643124" | "7471506" | "9124105" | "20100271771" | "20040057204" | "20060250764" | "6421235" | "6593859" | "6707666" | "6944012" | "20070101039" | "20090295328" | "8593804" | "20060056143" | "6256192" | "20090179501" | "20140133080" | "7916467" | "20050168937" | "20140273590" | "5719799" | "6093039" | "6430038" | "20080258679" | "20080304688" | "20100081473" | "20120113576" | "20150036275" | "20140098485" | "20140177162" | "20140185220" | "20140312202" | "5317691" | "5793606" | "6654234" | "20070035917" | "20140355190" | "20150198980" | "20010022719" | "7061472" | "8995121" | "9223344" | "20110210617" | "8688037" | "20090141439" | "20140334086" | "20140347802" | "9535456" | "20030128505" | "20100277856" | "20150277491" | "6006243" | "7349201" | "8199476" | "8937803" | "20060013411" | "20170060186" | "5030128" | "5175672" | "6781823" | "6989987" | "7667959" | "20100014235" | "20120188687" | "20130170126" | "7643283" | "9041347").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 22:59
S131	14	("6856506" | "6952343" | "5455466" | "5864708" | "5434964" | "D321179" | "20060159158" | "20040233930" | "7052296" | "D322063" |	US-PGPUB;	OR	OFF	2019/12/10 22:59

		"20040145342" | "20050047055" | "20050083012" | "7054145").PN.	USPAT; USOCR			
S132	120	("4734874" | "5127050" | "5142446" | "5209583" | "5227953" | "5237663" | "5245169" | "5283714" | "5375226" | "5430567" | "5465038" | "5493542" | "5546211" | "5559501" | "5561446" | "5598539" | "5600471" | "5617236" | "5628055" | "5632020" | "5668566" | "5668977" | "5675524" | "5682379" | "5687717" | "5699226" | "5701302" | "5724168" | "5794164").PN. OR ("5864708").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 22:59
S133	27	("20020119800" | "20040092249" | "20110131358" | "20110136550" | "20130084800" | "20130175986" | "20130210347" | "20130219098" | "20130288600" | "20130324035" | "20140059263" | "20140152235" | "20140349578" | "20150006395" | "20150318898" | "20160150354" | "20160285299" | "7825625" | "8254992" | "8255720" | "8805456" | "8825118" | "8947042" | "9020436" | "9496925" | "9627913" | "9755437").PN. OR ("10039147").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 22:59
S134	231	S133 S132 S131 S130 S130	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 22:59
S135	39	(US-20160370828-$ or US-20190205596-$ or US-20120242635-$ or US-20110267298-$ or US-20130177302-$ or US-20180126704-$ or US-20150362333-$ or US-20140145515-$ or US-20160141884-$ or US-20160001663-$ or US-20130281155-$ or US-20130236192-$ or US-20170063102-$ or US-20170090516-$ or US-20180107253-$ or US-20140021909-$ or US-20120113576-$ or US-20100014235-$ or US-20080258679-$ or US-20070035917-$ or US-20170060186-$ or US-20050168937-$ or US-20190013687-$ or US-20180358826-$ or US-20180323636-$ or US-20180109148-$).did. or (US-20180098366-$ or US-20140152235-$ or US-20140059263-$ or US-20130175986-$).did. or (US-9632530-$ or US-6593859-$ or US-5864708-$ or US-5793606-$ or US-9442526-$ or US-9107027-$ or US-9436220-$ or US-6151645-$ or US-10039147-$).did.	US-PGPUB; USPAT	OR	OFF	2019/12/10 22:59
S136	4,340,288	S135 and high speed	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 23:03
S137	12	S135 and (high near speed)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 23:03

S138	10	(("20180107253") or ("20140021909") or ("20140036437") or ("20170090516") or ("20170063102") or ("20160320867") or ("20130236192") or ("20170090516") or ("20080258679") or ("20070035917") or ("5864708")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 23:10
S139	8	S138 AND CONTROL$3	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 23:16
S140	4	(("5864708") or ("20140059263") or ("20170063102") or ("20170090516")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 23:24
S141	8	("20130287622" | "20150220109" | "20160058375" | "20160116941" | "20160139702" | "20160274621" | "20160287102" | "6553667").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 00:11
S142	8	("20130287622" | "6553667" | "6553667" | "20150220109" | "20160058375" | "20160116941" | "20160287102" | "20160274621" | "20160139702" | "20150220109" | "20130287622").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 00:12
S143	8	S141 S142	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 00:12
S144	8	(("20180103902") or ("9861314") or ("20170042477") or ("20110186347") or ("5163499") or ("20130196169") or ("5526867") or ("4120930")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 00:13
S145	6	S143 and ceramic	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 00:13
S146	7	S144 and ceramic	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 00:13
S147	13	S145 S146	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 00:14
S148	3	S147 and (filler near3 ink$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 00:53

S149	3	S147 and (filler$3 near3 ink$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 00:53
S150	0	S143 and (filler$3 near3 ink$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 00:53
S151	3	S144 and (filler$3 near3 ink$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 00:54
S152	8	S147 and (sticker or glue or tape)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 00:54
S153	8,010	g06f1/163.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:22
S154	2,490	S153 and ring	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:22
S155	44	S154 and filler	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:22
S156	3	S154 and (filler$1 near3 ink$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:22
S157	3	S154 and (filler$1 with ink$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:23
S158	9	S153 and (filler$1 with ink$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:23
S159	3	S153 and (filler$1 near3 ink$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:23
S160	1,074	S154 and (sticker or tape or glue or adhesive)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:24

S161	37	S155 and (sticker or tape or glue or adhesive)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:24
S162	25	S154 and ((sticker or tape or glue or adhesive) near3 (electronic$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:25
S163	34	S161 not S162	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:28
S164	11	S147 and (sticker or tape or glue or adhesive)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:38
S165	4	S153 and (filler$1 with color$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:42
S166	3	S153 and (filler$1 near3 ink$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:43
S167	15,603	A61b5/6801,01,681,6826.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:44
S168	3	S167 and (filler$1 near3 ink$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:44
S169	25	S167 and (filler$1 with color$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:44
S170	29	S167 and (filler$1 with color$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:45
S171	5	S170 and ink$3	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:45
S172	1,495	S167 and ink$3	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:45

S173	42	S172 and (filler$1 and color$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:46
S174	4	(("20110101185") or ("20110228504") or ("20180130389") or ("8384616")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 14:01
S175	0	g06f9/33.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 14:12
S176	2,539	g09f9/33.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 14:12
S177	2,230	S176 and display$1	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 14:12
S178	1,237	S176 and ((multiple or plurality) near3 display$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 14:12
S179	237	g09f9/3023.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 14:24
S180	9	("20050193930" | "20090296321" | "20140160636" | "20150116911" | "20160042896" | "20160156163" | "20160233651" | "20160242315" | "6149254").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 00:51
S181	15	("20030168433" | "20050193930" | "20090296321" | "20120218067" | "20130137358" | "20140097734" | "20140118887" | "20140160636" | "20150116911" | "20150372463" | "20160042896" | "20160156163" | "20160233651" | "20160242315" | "6149254").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 00:54
S182	15	S180 S181	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 00:54
S183	4,965	h05k7/1498,1461,16,18,142,1417,14.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 11:35
S184	13,545	361/679.01,679.02,724-727,679.33-679.39.CCLS.	US-PGPUB;	OR	OFF	2019/12/23 11:36

			USPAT; USOCR			
S185	299	((("CHEN") near3 ("Chao-Jung")) OR (("LIU") near3 ("Kun-Pei"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/12/23 11:36
S186	1	("20190098794").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 11:37
S187	1,412	(("20190098794") or ("10250447") or ("9699933") or ("10146295") or ("20150256406") or ("9423854") or ("20150257302") or ("20160334860") or ("20150253821") or ("9958178") or ("20150257311") or ("20150253829") or ("9430010") or ("20150256386") or ("10122585") or ("20150253794") or ("10075332") or ("20150256409") or ("9923766") or ("20180205607") or ("20150256394") or ("20150256396") or ("20150256393") or ("20150256390") or ("9964935") or ("10198709") or ("9863659") or ("20150253028") or ("10142822") or ("20150253029") or ("20180322376") or ("20070250410") or ("10187773") or ("10038992") or ("10049240") or ("10140820") or ("9894471") or ("20130027204") or ("8779922") or ("9911290") or ("20170215038") or ("20170213057") or ("20190262204") or ("8094020") or ("20110304463") or ("20140253289") or ("9888337") or ("20190363746") or ("9727515") or ("20140320288") or ("20150325089") or ("8994532") or ("20150236512") or ("20190341954") or ("10355730") or ("20170315950") or ("10169965") or ("8264354") or ("20110084839") or ("20190310685") or ("20130150028") or ("20180024598") or ("9864417") or ("20140020175") or ("20160129960") or ("20140253093") or ("9786153") or ("20160240067") or ("20180096585") or ("9711046") or ("20180017997") or ("10510219") or ("20150074749") or ("20020111819") or ("20190309559") or ("10410506") or ("7136832") or ("20190332838") or ("20170148323") or ("20190309560") or ("20160218934") or ("9337555") or ("20190309561") or ("7733230") or ("20190302764") or ("20080024306") or	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 11:38

		("10503942") or ("8471706") or ("20120133510") or ("8410935") or ("20100007498") or ("20130222117") or ("20190003236") or ("7298626") or ("7719422") or ("10318769") or ("8742897") or ("10325596") or ("20170116103") or ("10318772") or ("20190309562") or ("9129496") or ("20190087612") or ("20030046339") or ("20190294832") or ("20190378104") or ("20190162009") or ("20110131269") or ("9594385") or ("20100060452") or ("8239252") or ("20140363992") or ("10253582") or ("20140277807") or ("20170298701") or ("10022614") or ("10186331") or ("20190362716") or ("20140108825") or ("20190234159") or ("20120046982") or ("9111098") or ("20180350462") or ("20140277784") or ("10200834") or ("10380007") or ("9545029") or ("20170308845") or ("20180133583")).PN. or (("8249910") or ("20170008739") or ("8393026") or ("9582010") or ("9495853") or ("8917513") or ("20150309921") or ("20150102101") or ("20110010720") or ("20120046809") or ("20100039247") or ("20140176305") or ("20190370159") or ("9539156") or ("9202186") or ("8701229") or ("20170231108") or ("20110277242") or ("9126571") or ("20150379840") or ("9449202") or ("8239251") or ("9760853") or ("9740822") or ("9152933") or ("20140059768") or ("10108208") or ("20060026017") or ("20110231996") or ("20110162141") or ("20080154691") or ("20120046981") or ("9555778") or ("9183158") or ("20140281614") or ("9983601") or ("10420690") or ("7962981") or ("20170061083") or ("9864669") or ("20140237721") or ("RE46326") or ("20110309931") or ("9182232") or ("20170215303") or ("7690059") or ("20170106738") or ("20120232961") or ("9734693") or ("20140277819") or ("10043593") or ("6919816") or ("20100228405") or ("20020190868") or ("20110080264") or ("20140013503") or ("9632506") or ("8060400") or ("20180151260") or ("10404523") or ("9678896") or ("20070239569") or ("10121028") or ("10173876") or ("20060206246") or ("20070157385") or ("20110131074") or ("7187265") or ("10378241") or ("8631247") or ("10102500") or ("20080154712") or ("20080122626") or ("10398233") or ("20150154536") or ("20160041559") or ("20190201117") or ("20100070075") or ("20170248965") or ("20180086615") or ("20190286139") or ("20070169268") or ("20190156940") or ("20190125458") or				

		("20120102334") or ("20160183687") or ("20160162836") or ("20160189507") or ("20170085413") or ("20160012707") or ("20140135994") or ("20140320308") or ("9208459") or ("20150002274") or ("20110010770") or ("20190286164") or ("9843847") or ("20190242157") or ("20040193449") or ("6965816") or ("20160048462") or ("20190296958") or ("8924548") or ("9198060") or ("7805784") or ("9913642") or ("20080068170") or ("20110063093") or ("20190283648") or ("20140360232") or ("20190125456") or ("20180130331") or ("20190347923") or ("8648709") or ("7861334") or ("20190283962") or ("8531134") or ("7734476") or ("9355055") or ("20070163043") or ("20190035255") or ("20070174964") or ("8786440") or ("20120166693") or ("10488910") or ("9202374") or ("20030125836") or ("8674822") or ("20130201316")).PN. or (("20140213177") or ("20110279261") or ("9815439") or ("9769786") or ("20190287046") or ("20130046884") or ("9510679") or ("8368321") or ("20190283252") or ("20190286138") or ("20190320799") or ("9456958") or ("20150272575") or ("9124655") or ("9881130") or ("20150154556") or ("8805550") or ("20110080267") or ("8866408") or ("20190377399") or ("20160287459") or ("20140329467") or ("10246905") or ("20140159888") or ("9860961") or ("8610376") or ("20070080801") or ("20060064201") or ("8841859") or ("20110298607") or ("10368222") or ("10071891") or ("8552664") or ("20170111759") or ("8339069") or ("20170311280") or ("20190286152") or ("20170344708") or ("8954170") or ("20180066452") or ("20100296285") or ("8754589") or ("9537522") or ("20140215029") or ("8543249") or ("8536802") or ("20160073276") or ("20190283240") or ("10361800") or ("20190137991") or ("20190119089") or ("7656273") or ("8373362") or ("20190125361") or ("8138690") or ("8610377") or ("20150156627") or ("9443366") or ("10353483") or ("10067571") or ("20140002239") or ("20190098432") or ("20150009013") or ("20190287047") or ("10189692") or ("20110128163") or ("20180241489") or ("9418263") or ("20170085637") or ("20180346300") or ("9953193") or ("10257268") or ("20080068171") or ("10280054") or ("9686138") or ("10134007") or ("8593135") or ("20190283239") or ("10081525") or ("20160259341") or				

		("20190125454") or ("20190180539") or ("20180124181") or ("9996119") or ("20100301769") or ("20140351098") or ("20160239794") or ("20180132850") or ("10204244") or ("9967759") or ("20180241488") or ("20190287063") or ("20190260829") or ("20100301774") or ("20180034912") or ("9740293") or ("20100295473") or ("20100301768") or ("9710682") or ("20190287059") or ("20180343304") or ("9858452") or ("20190331613") or ("20100295474") or ("20160124470") or ("20160207497") or ("20100295475") or ("20190125457") or ("20170331899") or ("20100302779") or ("8989053") or ("20190210849") or ("9880635") or ("9617134") or ("20190112171") or ("7436303") or ("8823277") or ("20180375940") or ("20100295482") or ("9234757") or ("9430732") or ("20190074153") or ("20180278694") or ("20100301771") or ("8026814") or ("20170061525") or ("20100270933") or ("10486951") or ("10362658") or ("9402242")).PN. or (("20190125455") or ("20070222597") or ("7213026") or ("20170078400") or ("10445536") or ("9569294") or ("9542577") or ("8452868") or ("20180107281") or ("20100301770") or ("20140244886") or ("10468219") or ("20190132815") or ("20140244881") or ("20190200987") or ("20150372868") or ("20190287062") or ("20190125459") or ("10336592") or ("20190109904") or ("20190002256") or ("9268730") or ("20190098090") or ("20100301834") or ("9974042") or ("10133243") or ("10157363") or ("20190206004") or ("20190218081") or ("20180278693") or ("9256565") or ("20190263644") or ("10346654") or ("20110072132") or ("20170020354") or ("8988223") or ("20150324681") or ("20170160776") or ("20110001436") or ("9930635") or ("20170009417") or ("20180005178") or ("20030093187") or ("20110001438") or ("7152040") or ("20140277615") or ("20170242427") or ("20160052762") or ("20160048709") or ("20180096180") or ("20140239718") or ("20170010610") or ("20160037478") or ("20180204029") or ("10389459") or ("10071893") or ("20170061174") or ("20170270323") or ("20160314327") or ("20160259329") or ("10241555") or ("20160048712") or ("9678484") or ("9984350") or ("20150156100") or ("20170300122") or ("9821991") or ("8334779") or				

		("20030052787") or ("20040039745") or ("10063331") or ("7557702") or ("20170176986") or ("10338653") or ("20190244448") or ("20040260470") or ("9541905") or ("9619989") or ("7683760") or ("9592964") or ("9774410") or ("7010369") or ("20190114450") or ("8207816") or ("8723653") or ("8710980") or ("9591607") or ("20190286243") or ("20180359039") or ("20190332833") or ("20100259931") or ("20150020558") or ("20100264846") or ("10304304") or ("20160182170") or ("20160294493") or ("20120102434") or ("9426773") or ("20160304004") or ("8457781") or ("9674812") or ("20170022015") or ("10152031") or ("20140277594") or ("9842290") or ("8373562") or ("9900119") or ("7667604") or ("9978035") or ("20130176115") or ("20170131753") or ("9769785") or ("20140148944") or ("10031489") or ("20170174490") or ("20110046775") or ("9426774") or ("9424447") or ("8928463") or ("20140215030") or ("10176297") or ("9125254") or ("9854556") or ("9674050") or ("20150156254") or ("9734682") or ("20120161963") or ("20190200863") or ("9510316") or ("7969306")).PN. or (("8368545") or ("20110291813") or ("20170010609") or ("10410176") or ("9904902") or ("8803660") or ("9811059") or ("20150077326") or ("20150053742") or ("9020634") or ("20150061511") or ("20110018707") or ("20090008450") or ("10127521") or ("20170277920") or ("9261922") or ("20030227392") or ("20170185956") or ("20060208890") or ("20100301773") or ("20150156605") or ("10049552") or ("20150156718") or ("7737857") or ("7954712") or ("20180247259") or ("9072133") or ("20170373775") or ("20190205567") or ("20050007249") or ("20140277616") or ("20170086279") or ("9775126") or ("9990604") or ("9286441") or ("20070027981") or ("20140346186") or ("20140240914") or ("20150154547") or ("20170118076") or ("9013301") or ("20180348883") or ("7752301") or ("20190201115") or ("10453023") or ("20190200977") or ("20190207773") or ("9949228") or ("8239527") or ("20100295665") or ("20180131455") or ("10315897") or ("10430702") or ("20190304238") or ("20140277595") or ("20190095852") or ("20140273847") or ("9942935") or ("7032037") or ("7679520") or ("20150156747") or ("20100250461") or ("20140293605") or ("8831970") or				

		("20190206565") or ("20090146832") or ("9875204") or ("20170164319") or ("9984348") or ("20190340396") or ("20190205566") or ("10189691") or ("20140285090") or ("9588504") or ("20140277607") or ("20120235579") or ("9778626") or ("9974041") or ("20140285095") or ("20160260148") or ("7027808") or ("20140195057") or ("20140351406") or ("8232745") or ("20170249431") or ("20100229096") or ("9936603") or ("20080252414") or ("9283054") or ("10351400") or ("9335786") or ("20150347959") or ("10138100") or ("20150156253") or ("9471821") or ("20150053743") or ("10071892") or ("20090135015") or ("9990823") or ("20150154545") or ("20140240909") or ("20110241833") or ("20170134349") or ("20190201033") or ("9766603") or ("20170142769") or ("10130232") or ("20150153175") or ("8793587") or ("10485068") or ("20140282015") or ("20080228346") or ("8025228") or ("20180286205") or ("8058985") or ("20040056779") or ("20170147915") or ("20160260301") or ("20070276548") or ("10381116") or ("9775609") or ("9445813") or ("20150154844") or ("20150156066") or ("20150289405") or ("20140282257") or ("8547226") or ("6611755") or ("20170024806")).PN. or (("20150154548") or ("20150349917") or ("20140277593") or ("20180064443") or ("20090267540") or ("9405950") or ("20160378076") or ("20070005382") or ("9117128") or ("20160320773") or ("8744620") or ("20190119083") or ("10325464") or ("20150154531") or ("9678544") or ("20170017392") or ("8511554") or ("10078811") or ("20190180059") or ("20160117450") or ("10310568") or ("20190380311") or ("9122810") or ("20150154431") or ("20190087774") or ("20140000322") or ("20080121700") or ("RE47599") or ("20180068211") or ("6462670") or ("20130339714") or ("9738125") or ("20190201140") or ("20130030566") or ("9913240") or ("20140257699") or ("20170019970") or ("20180064441") or ("10430073") or ("20140203915") or ("20190206569") or ("20170178104") or ("20050222933") or ("20190256334") or ("20150053741") or ("20190207911") or ("20110166891") or ("20160211632") or ("20150154544") or ("20190187690") or ("20170196649") or ("20140297855") or				

		("20160005284") or ("10031490") or ("20150053749") or ("20170148075") or ("8390456") or ("20190329421") or ("20180011451") or ("20050085248") or ("9504628") or ("20140274123") or ("10078809") or ("8674839") or ("20030105903") or ("20190122765") or ("10102170") or ("20160209887") or ("20190201137") or ("20170010608") or ("8323114") or ("20100210354") or ("20130332719") or ("20150054753") or ("10478973") or ("20190206562") or ("20140339249") or ("8165928") or ("20150048101") or ("7242306") or ("20180346299") or ("8511555") or ("20180077545") or ("20170353943") or ("7791479") or ("20160239696") or ("20090134999") or ("8599012") or ("9463140") or ("20180330293") or ("9021431") or ("20190201136") or ("10265859") or ("10377196") or ("10229382") or ("20150348498") or ("20150154538") or ("20140121789") or ("8719066") or ("20150154557") or ("20170368897") or ("20150154542") or ("20100252517") or ("20190101910") or ("20170007246") or ("20140339248") or ("20170007244") or ("20170007245") or ("20140223230") or ("8928456") or ("10074069") or ("20150154585") or ("8334781") or ("9456959") or ("20170264493") or ("20110128118") or ("20190371157") or ("20190359018") or ("8009034") or ("20140257754") or ("20100065632") or ("20160260161") or ("20180343024") or ("8854207") or ("20050141997") or ("20190110792")).PN. or (("20040015418") or ("20110137489") or ("20150053748") or ("7911349") or ("20120280834") or ("10195513") or ("10414052") or ("7154397") or ("20150130593") or ("10508010") or ("20190099180") or ("20190201143") or ("20180064442") or ("20120286969") or ("20130131870") or ("9984349") or ("20140195844") or ("20150302234") or ("9700310") or ("10022613") or ("7489993") or ("20180264347") or ("7667573") or ("20150154539") or ("20100134257") or ("20160257212") or ("10229082") or ("9788297") or ("20180352920") or ("10384351") or ("20180181906") or ("20180064440") or ("20140244325") or ("10239738") or ("9886013") or ("20160259028") or ("20190084814") or ("20040056091") or ("20170132168") or ("20150053739") or ("7374096") or ("20180332434") or ("10046228") or				

		("20190284034") or ("20180055513") or ("20190102930") or ("9182231") or ("20190290265") or ("20120046978") or ("20080135613") or ("20130325998") or ("6837427") or ("20140277617") or ("7450024") or ("20170225334") or ("20190113896") or ("9329654") or ("20190358515") or ("20190302231") or ("10435279") or ("20050035862") or ("10486313") or ("20160232483") or ("8547222") or ("20170340498") or ("10102494") or ("20140277596") or ("10201349") or ("20190205001") or ("8113425") or ("20110266338") or ("10235447") or ("9639722") or ("20070069018") or ("20170225336") or ("20160244311") or ("20190193276") or ("20180277241") or ("20100212087") or ("20150154543") or ("9116897") or ("7549579") or ("9211811") or ("20170225332") or ("20190169005") or ("8886985") or ("7786844") or ("20180326291") or ("20180117446") or ("20160012390") or ("20190200998") or ("20190099178") or ("20040222297") or ("20150154532") or ("20160224048") or ("20160260054") or ("7627666") or ("20140115353") or ("20180206843") or ("20160132046") or ("20130117078") or ("20080197193") or ("7486180") or ("10262172") or ("8458329") or ("20170032022") or ("7518500") or ("20060208892") or ("20140277605") or ("10360760") or ("20120028680") or ("20190206551") or ("20170225321") or ("20140258052") or ("20190099179") or ("9355531") or ("8120467") or ("20190201141") or ("20170257841") or ("20150154540") or ("20120062363") or ("20190361917") or ("20150154551") or ("20180117447") or ("20180321356") or ("20120185590") or ("9536405")).PN. or (("20190041637") or ("20150142137") or ("8738177") or ("20180289999") or ("20060208891") or ("20060142913") or ("20150156109") or ("20110016342") or ("20190219996") or ("20110192901") or ("20190200986") or ("20140277618") or ("8583314") or ("20170178066") or ("9068374") or ("7864047") or ("7665071") or ("20150154370") or ("10286792") or ("10078812") or ("20080174485") or ("20150154552") or ("20120143401") or ("20100005331") or ("20100154124") or ("20170308984") or ("20150054627") or ("9201933") or ("20190200844") or ("20100013639") or ("20090237258") or				

		("20070247316") or ("9860965") or ("20070120689") or ("8456286") or ("20170196560") or ("20150053746") or ("20080116269") or ("20160258762") or ("20150053737") or ("9924942") or ("7952485") or ("7440767") or ("10441281") or ("8508367") or ("20140166745") or ("20180262891") or ("20120109797") or ("9358894") or ("20100141445") or ("20180033244") or ("6658586") or ("9928713") or ("9235979") or ("20050127177") or ("20170103239") or ("20150053744") or ("20050125312") or ("20050040952") or ("20160035246") or ("9949540") or ("9510828") or ("20180074156") or ("20040222298") or ("20130231779") or ("20090088924") or ("10470008") or ("20020183882") or ("20180211465") or ("8803669") or ("20190340876") or ("20100194604") or ("10037449") or ("20050085180") or ("20150154555") or ("10322675") or ("20150076209") or ("20150076210") or ("20190108691") or ("20050194437") or ("9129493") or ("20150154553") or ("9361568") or ("20170318919") or ("20080121690") or ("20080088437") or ("10109124") or ("20170223807") or ("8169304") or ("20100127880") or ("20090270174") or ("10412110") or ("10158654") or ("9721418") or ("20170039833") or ("9808249") or ("20190146482") or ("7956746") or ("20080122691") or ("10403069") or ("8947201") or ("9367195") or ("20170347333") or ("7938326") or ("9452684") or ("20160313744") or ("20080052027") or ("20120109401") or ("20190119978") or ("20080122656") or ("8874817") or ("9928054") or ("7661591") or ("20080088438") or ("20110140913") or ("20180190056") or ("7548826") or ("8400268") or ("9463574") or ("20060181400") or ("9594998") or ("20170069148") or ("9665521") or ("20090212925") or ("8248252") or ("20120004770") or ("9792542") or ("20180146960")).PN. or (("20180153542") or ("20180368833") or ("20190110791") or ("20090174550") or ("20150053745") or ("20150154541") or ("10469993") or ("20120143383") or ("10199715") or ("10395021") or ("8825535") or ("9655217") or ("20150019008") or ("20180125489") or ("20110068921") or ("20140347174") or ("20150053740") or ("20160232479") or ("20060288101") or ("20190045325") or ("20170008162") or				

		("9720479") or ("9809169") or ("10032123") or ("20140145845") or ("20130205069") or ("20170296173") or ("20170305349") or ("20170021260") or ("8577759") or ("20190201116") or ("20120109403") or ("20150278219") or ("20170318923") or ("20090309732") or ("9490920") or ("20180124072") or ("20060250249") or ("20180072223") or ("20170228566") or ("20180109955") or ("20120109798") or ("9288117") or ("20090144010") or ("9367980") or ("20110040440") or ("20190073209") or ("20160266891") or ("7974809") or ("9283857") or ("20100127881") or ("20120194327") or ("20170214117") or ("20130257600") or ("20170105086") or ("20140297180") or ("20080086349") or ("9921559") or ("20120047050") or ("20120271742") or ("9857234") or ("6647328") or ("7668754") or ("20180004176") or ("20160330825") or ("20180089410") or ("20170168472") or ("20150369671") or ("20100164736") or ("20190025354") or ("9082260") or ("9715814") or ("20080313006") or ("20140265577") or ("8242926") or ("20150129666") or ("20190025355") or ("8938366") or ("20110153614") or ("20150163626") or ("20190180533") or ("10104496") or ("20120005344") or ("20150053738") or ("8461725") or ("20060154642") or ("20040078503") or ("9987006") or ("20160116961") or ("9380274") or ("20160162772") or ("8983875") or ("20100116885") or ("20120109402") or ("20190025353") or ("10448211") or ("20190173154") or ("10432473") or ("20160260145") or ("9541454") or ("6636983") or ("20190294131") or ("20190187641") or ("6658585") or ("20120233006") or ("20150221160") or ("20180077546") or ("10453572") or ("20180124095") or ("20190201146") or ("7319853") or ("20170082498") or ("10026033") or ("20160117583") or ("20050080956") or ("20190141063") or ("10380511") or ("20180066996") or ("9390362") or ("20110068906") or ("20140187172") or ("7254468") or ("20010056544") or ("8171142") or ("20190350582") or ("9355508")).PN. or (("20110187503") or ("20050086366") or ("20160321480") or ("20070034264") or ("20180024700") or ("20190116478") or ("9117342") or ("8700420") or ("20150126234") or				

		("8819855") or ("8674806") or ("7782194") or ("7117169") or ("20110298301") or ("20170308143") or ("20190146481") or ("7082528") or ("20160284185") or ("20190201144") or ("20030114206") or ("20190156280") or ("9619951") or ("9830483") or ("20080198015") or ("20130339479") or ("20100031043") or ("10354315") or ("9902539") or ("20190125486") or ("20190222652") or ("10034359") or ("20180109417") or ("20130262170") or ("20020169696") or ("9355510") or ("20180184506") or ("20180077521") or ("20170308797") or ("8311765") or ("20090189767") or ("20190317564") or ("9037881") or ("8491159") or ("8941470") or ("9026462") or ("20170193417") or ("10089505") or ("20130026220") or ("9352887") or ("20170308795") or ("20120106672") or ("20180007504") or ("9373241") or ("10181167") or ("20180165565") or ("8725345") or ("9965564") or ("9602976") or ("20150348396") or ("9571211") or ("20090270175") or ("20070205894") or ("9043332") or ("20180125488") or ("20160343181") or ("20190012705") or ("10085332") or ("20140108827") or ("20150051749") or ("20190108355") or ("9711038") or ("9781548") or ("8138925") or ("20170324896") or ("10448491") or ("10448489") or ("10349744") or ("20150102901") or ("9641969") or ("9351353") or ("20190201138") or ("7510110") or ("20150223019") or ("8416064") or ("20190206561") or ("20110133908") or ("20160132822") or ("20190303848") or ("20170308975") or ("8248239") or ("20160355308") or ("20180192501") or ("9691198") or ("20030195644") or ("20180271286") or ("9098818") or ("20170308799") or ("7714723") or ("20170126505") or ("20190099224") or ("20180249561") or ("20070285241") or ("20110313893") or ("20090029766") or ("8764242") or ("8004397") or ("10068467") or ("20180271287") or ("10342104") or ("20150154549") or ("20180302477") or ("9811949") or ("20190122321") or ("7451238") or ("9807858") or ("7741808") or ("20120253508") or ("20170332750") or ("20150163867") or ("20090222349") or ("20190295369") or ("10357107") or ("20070197262") or ("20080061979") or ("7518502") or ("10257217") or ("8994276") or ("10025337") or ("20130268199")).PN. or (("20170280274") or ("10098211") or ("20080091309") or				

		("20140361869") or ("9142116") or ("20050108096") or ("8279065") or ("7323991") or ("9849364") or ("9943174") or ("20040049324") or ("8600932") or ("20150332211") or ("20170017815") or ("20140075514") or ("20180177032") or ("8855794") or ("9953289") or ("20130278067") or ("6654816") or ("10390413") or ("20190201105") or ("8294579") or ("20170163515") or ("9004352") or ("20190292030") or ("9908239") or ("10438271") or ("20140187173") or ("10262656") or ("8610574") or ("8325011") or ("8558699") or ("20090195363") or ("20110191058") or ("10102703") or ("9896315") or ("20130285558") or ("9442789") or ("9870773") or ("20080215727") or ("8269630") or ("20160275731") or ("20170111451") or ("7898403") or ("20180107188") or ("9465559") or ("9442876") or ("8248238") or ("20090216775") or ("20080026625") or ("8253567") or ("20180310389") or ("6421571") or ("20170276573") or ("20190201104") or ("10437658") or ("8284055") or ("20100327766") or ("20120080944") or ("10346792") or ("20160249439") or ("9047181") or ("20180084627") or ("20120194354") or ("20190137989") or ("8000850") or ("10499478") or ("7685026") or ("7364452") or ("20080231431") or ("20170171359") or ("20130204984") or ("8421630") or ("10296194") or ("9019104") or ("8242907") or ("7953849") or ("8947233") or ("20030030993") or ("20160029160") or ("8682541") or ("20170074617") or ("20190201145") or ("6775576") or ("20130293378") or ("8242908") or ("20170232300") or ("20080084333") or ("10089850") or ("7291032") or ("20130158736") or ("9739763") or ("10351399") or ("20120169469") or ("20190272498") or ("20160147589") or ("20160364129") or ("10117059") or ("20080125965") or ("9530295") or ("8451120") or ("20120228243") or ("20190137988") or ("10204297") or ("20180263098") or ("20180161225") or ("20190280438") or ("20070055470") or ("7302320") or ("9543788") or ("20080084334") or ("8359248") or ("20140062730") or ("20080125964") or ("9857133") or ("20160132532") or ("20030191877") or ("9682598") or ("10154555") or ("20180131715") or ("8519566") or ("9730518") or ("20140058616") or ("6882917") or ("20190050784") or ("10284589") or ("20140196761") or ("8770140")).PN.				

S188	116	((("CHANG") near3 ("Cheng-Wen")) OR (("TSAI") near3 ("CHEN-YU")) OR (("WANG") near3 ("CHUN-YUAN")) OR (("LEE") near3 ("CHENG-YI"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/12/23 11:41
S189	3	(("20190324502") or ("20170311461") or ("10045448")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 11:49
S190	114	(("20190324502") or ("20170311461") or ("10045448") or ("20160363960") or ("9864412") or ("9772657") or ("20160320804") or ("10162387") or ("20170329369") or ("20180235440") or ("20150366090") or ("9477267") or ("20090101405") or ("8153896") or ("20190141843") or ("20190261520") or ("4507769") or ("20060176655") or ("7289315") or ("20190339742") or ("20010042990") or ("20170280571") or ("10188002") or ("5926167") or ("6499788") or ("20190056768") or ("9603271") or ("20150257289") or ("10001810") or ("10430923") or ("20190098783") or ("20190387633") or ("20180011515") or ("20180225804") or ("20120277530") or ("20140197289") or ("20180160554") or ("10506726") or ("20040061683") or ("20190087016") or ("8306575") or ("7196692") or ("8795158") or ("8876074") or ("20190374233") or ("20080013264") or ("7830460") or ("9791892") or ("20150378397") or ("7272423") or ("20190371214") or ("20020146960") or ("20080192419") or ("20180032108") or ("10152089") or ("20090075702") or ("20160324021") or ("4674859") or ("4426695") or ("10347160") or ("7949312") or ("20060293095") or ("20190079561") or ("20060055607") or ("8638321") or ("20130167600") or ("20170234478") or ("10400942") or ("20090290077") or ("2680581") or ("9823697") or ("20140357954") or ("RE32996") or ("8302925") or ("7046204") or ("9678539") or ("7817410") or ("4582271") or ("10433438") or ("20150116921") or ("20120074802") or ("4555173") or ("9992888") or ("20160216737") or ("20160179141") or ("20160374228") or ("20070210223") or ("20180077810") or ("20110182007") or ("20180188637") or ("9271634") or ("20090272870") or ("9836087") or ("9756757") or ("8456834") or ("20180270971") or	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 11:49

		("20050088814") or ("20060162122") or ("20030209212") or ("20030086240") or ("4685792") or ("20150164514") or ("8052101") or ("20080302741") or ("6819550") or ("20040228080") or ("9103349") or ("20190380218") or ("20040202316") or ("4668076") or ("20190098774") or ("20040218352") or ("7209344")).PN.				
S191	18,778	G06F1/1652,1626,1613.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 11:50
S192	3,149	G06F2203/04105.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 11:50
S193	1,552	361/679.17,679.41-679.44.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:09
S194	6,319	G06F1/1624,1633,1662,1667,1669,1671.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:09
S195	1,132	(("20190215975") or ("8395465") or ("20130100055") or ("8665044") or ("20160226183") or ("20160226182") or ("9494980") or ("8988876") or ("8264310") or ("20190278329") or ("20140049911") or ("8390411") or ("20120068919") or ("8390412") or ("20120069503") or ("10037054") or ("10303215") or ("8289114") or ("20190064878") or ("20180012691") or ("10236106") or ("8928437") or ("20190180898") or ("20170010633") or ("20150153783") or ("8344836") or ("20150160696") or ("20130162668") or ("8975991") or ("20160209883") or ("20120194308") or ("20120068942") or ("8143982") or ("20130162669") or ("20140334098") or ("8143983") or ("9329630") or ("8576031") or ("9773598") or ("9568954") or ("20170125144") or ("20120066865") or ("20130162554") or ("8648679") or ("9627803") or ("20190004764") or ("10212506") or ("20140321040") or ("8242868") or ("8884730") or ("20120069540") or ("20120068798") or ("8253518") or ("8514042") or ("20170093453") or ("8390413") or ("20180115816") or ("8934226") or ("20170094391") or ("20120068799") or ("8138869") or ("9967644") or ("9883272") or ("9967648") or ("20130214887") or	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:15

		("20120066873") or ("9588550") or ("10225637") or ("20160268729") or ("20190289382") or ("20120300383") or ("10003880") or ("10003881") or ("20190052739") or ("20130027867") or ("20170093079") or ("9973840") or ("20170094397") or ("20170094398") or ("20170094390") or ("20170245038") or ("20170094393") or ("20170264046") or ("20170094381") or ("10446948") or ("9769558") or ("8665045") or ("10397683") or ("10397682") or ("9883281") or ("20190289383") or ("9973845") or ("10009678") or ("9794673") or ("9967650") or ("20170094396") or ("9826301") or ("9883277") or ("20120068797") or ("20170093454") or ("20190289381") or ("20170094392") or ("10182282") or ("9883274") or ("9531119") or ("20160268730") or ("20170238087") or ("10097913") or ("20120069502") or ("9961433") or ("20170094399") or ("20170094394") or ("9967649") or ("20100225429") or ("8073324") or ("20170347182") or ("9326576") or ("9961431") or ("9883276") or ("9954571") or ("20160323006") or ("20170177037") or ("20190024683") or ("10203728") or ("20160003270") or ("20170094395") or ("20160240966") or ("20140043748") or ("20160320808") or ("20160202734") or ("9502819")).PN. or (("20130294020") or ("20140043741") or ("20140043121") or ("8953310") or ("9615476") or ("20150076185") or ("20150119114") or ("9848071") or ("20180103135") or ("8878637") or ("10104211") or ("9071672") or ("20180212455") or ("10401902") or ("20170062999") or ("10505386") or ("9653844") or ("10090877") or ("10404089") or ("9072352") or ("20170237460") or ("20160098016") or ("20160378072") or ("10050378") or ("20160094076") or ("20170257146") or ("10063009") or ("20130027862") or ("20120314354") or ("9753436") or ("20180337704") or ("20190386507") or ("9300344") or ("8531834") or ("9627130") or ("9660684") or ("9559741") or ("20160099741") or ("10396843") or ("20130334072") or ("20190072911") or ("20190278232") or ("20150111398") or ("8995126") or ("20140233167") or ("5112247") or ("20150270046") or ("20130217246") or ("20150171913") or ("8401219") or ("20160239047") or ("9172178") or ("9854343") or ("20080165982") or ("20100134964") or ("9276626") or ("9287657") or ("20080166007") or ("20160111815") or ("20170048604") or ("20130273752") or ("20170035170") or				

		("20180337467") or ("20170245040") or ("10433043") or ("20150117141") or ("20160204545") or ("8180093") or ("9312633") or ("20150117137") or ("9729791") or ("9815037") or ("9967646") or ("9625944") or ("9032130") or ("20190090045") or ("20140072312") or ("20180028991") or ("20080164934") or ("10313775") or ("10231044") or ("20120268878") or ("20180255389") or ("20170065947") or ("20190132665") or ("20180255388") or ("20150201723") or ("20090174990") or ("9118990") or ("10213756") or ("10165346") or ("20080166001") or ("20100254111") or ("7997906") or ("9555384") or ("9300081") or ("20150277491") or ("8311255") or ("20160058375") or ("20080166006") or ("9886006") or ("20160378070") or ("7762817") or ("20160378071") or ("20160378069") or ("5105095") or ("10054990") or ("20150227178") or ("9665125") or ("8853998") or ("9317076") or ("20180136613") or ("20170149171") or ("20140217862") or ("20130002193") or ("20160150861") or ("9584709") or ("20160241761") or ("9583871") or ("8915361") or ("20140355200") or ("20080166005") or ("10234828") or ("20150116926") or ("9019698") or ("8712071") or ("20170093087") or ("9941627") or ("20160040698") or ("20180248406")).PN. or (("9877549") or ("10264857") or ("20150318709") or ("20170085283") or ("20160040695") or ("9853507") or ("8867758") or ("20160037870") or ("20160191101") or ("20080164770") or ("9229494") or ("20180226747") or ("10085523") or ("9852844") or ("20070035917") or ("7715187") or ("9450634") or ("20120224710") or ("9819850") or ("9898048") or ("9900041") or ("9294830") or ("20190216178") or ("20160277649") or ("8185084") or ("20160259374") or ("7352567") or ("20190371504") or ("20170318375") or ("20170345536") or ("20150270058") or ("20120212063") or ("20180062454") or ("20070247800") or ("20080278899") or ("20160072327") or ("9634728") or ("20170205855") or ("20130326829") or ("20150102879") or ("7916467") or ("20100177476") or ("20150349847") or ("10192665") or ("20190296497") or ("9773601") or ("20140091686") or ("10511127") or ("20190053584") or ("9126237") or ("20180311795") or ("20140265765") or ("20140028243") or ("20180332445") or ("20150117139") or ("10312039") or ("20080163663") or ("9611881") or ("8650925") or				

		("20100194503") or ("20090126155") or ("20160040825") or ("20140263908") or ("10321279") or ("20160217953") or ("9689527") or ("20120021619") or ("9977460") or ("20100194375") or ("20130082840") or ("20160254837") or ("20190293232") or ("20170207042") or ("20180306380") or ("8248059") or ("9818559") or ("20190220059") or ("9324487") or ("9548785") or ("20170070076") or ("8963666") or ("20180242064") or ("20190283823") or ("20160037876") or ("20160215923") or ("20180324964") or ("9608475") or ("20150116927") or ("9894964") or ("20160102805") or ("20110028041") or ("20170256883") or ("10442367") or ("20180125178") or ("5128835") or ("20060098403") or ("10491725") or ("9869423") or ("10123593") or ("20120326819") or ("20180094769") or ("20130082919") or ("7942678") or ("20190132018") or ("20130082918") or ("20170371374") or ("9590352") or ("20120023597") or ("9825399") or ("10401905") or ("7826205") or ("20170070077") or ("20180309232") or ("8823477") or ("20130100601") or ("20190132019") or ("10454515") or ("10125921") or ("5226634") or ("9577467") or ("20130077236") or ("20190220065") or ("9778705") or ("9497697") or ("10381144") or ("20150311741") or ("9748689") or ("10485115") or ("20180241429")).PN. or (("20160127643") or ("20170068286") or ("9709111") or ("20080166907") or ("20180250557") or ("10389399") or ("20170083049") or ("20170106298") or ("9450446") or ("20180364769") or ("20170110229") or ("8711554") or ("8811648") or ("20170317533") or ("20150126934") or ("9901147") or ("20170364125") or ("20130157477") or ("5192832") or ("20170047767") or ("20160088880") or ("20140066128") or ("20060272725") or ("9943332") or ("20180298636") or ("10317953") or ("20170106300") or ("20120250928") or ("10065081") or ("10082840") or ("9252627") or ("20130033844") or ("9950267") or ("10372159") or ("7578628") or ("7798831") or ("9425543") or ("20150358439") or ("10184506") or ("9602639") or ("20140177139") or ("20140240085") or ("8794980") or ("8811032") or ("20160093979") or ("20150199858") or ("20180330859") or ("20170098916") or ("20160190736") or ("20160069371") or ("9628707") or ("20170216734") or ("20130082924") or				

		("9643096") or ("9761068") or ("20150195937") or ("9282662") or ("20060046792") or ("20080081505") or ("20160182826") or ("10164688") or ("20120004602") or ("10437359") or ("20190025889") or ("9445633") or ("20120029385") or ("20180295896") or ("9647755") or ("20180351393") or ("20180064224") or ("20180207539") or ("20180056306") or ("20140342579") or ("20180224897") or ("10206474") or ("10014624") or ("10049801") or ("20160261166") or ("9954330") or ("20160065702") or ("20140065847") or ("8029309") or ("8939773") or ("8882710") or ("20170070001") or ("20160091922") or ("20110178461") or ("9814995") or ("8435209") or ("20110031287") or ("8932256") or ("10238981") or ("20180108190") or ("20160064996") or ("20190238170") or ("20130005179") or ("9706026") or ("20130190683") or ("20170222359") or ("8798675") or ("9534852") or ("20160198838") or ("10345866") or ("10300497") or ("20180203482") or ("20170085020") or ("20150185771") or ("20120112552") or ("20180185060") or ("20180234127") or ("20150126047") or ("9905964") or ("9913526") or ("9946297") or ("20160309010") or ("20190217213") or ("20170150049") or ("20140131007") or ("20170264037") or ("20170177039") or ("8545247") or ("9927836") or ("9610405") or ("8104816") or ("10270484") or ("20190110567") or ("9787129") or ("9576409") or ("9768538") or ("4491791")).PN. or (("9086835") or ("10483614") or ("20130085705") or ("10390594") or ("10511341") or ("20180133871") or ("20150153765") or ("20180246548") or ("20180246547") or ("20080232071") or ("9961793") or ("9742085") or ("20140273546") or ("9946315") or ("20180091879") or ("9197011") or ("20190089395") or ("10248171") or ("20190235587") or ("10254805") or ("9064356") or ("10050658") or ("20130083477") or ("20190089037") or ("9787022") or ("20180091878") or ("20110272959") or ("20170308134") or ("9600029") or ("20190158136") or ("20190238728") or ("8031461") or ("10257608") or ("20170257147") or ("20160032952") or ("10298075") or ("20160069712") or ("20170250578") or ("20180366893") or ("9161484") or ("20180183622") or ("10322233") or ("9883610") or ("9553403") or ("20170157321") or ("8188851") or ("9829350") or ("9363904") or ("20140047677") or ("20180091901") or ("20170157322") or				

		("10350353") or ("20190282756") or ("20180085283") or ("20100277304") or ("10254802") or ("9559456") or ("4491792") or ("9267638") or ("20180213921") or ("9329295") or ("20130134291") or ("10197891") or ("20150214760") or ("20190198212") or ("8382059") or ("20040198245") or ("10236649") or ("20160126675") or ("20160020557") or ("9538675") or ("20180059512") or ("20190190193") or ("20100331059") or ("20190363565") or ("20190335868") or ("8960634") or ("20150163936") or ("20040239460") or ("20090061794") or ("20180091889") or ("20190110561") or ("20120199501") or ("20130048464") or ("9879596") or ("7003333") or ("20100242332") or ("20160329658") or ("9286024") or ("20170251313") or ("20130328825") or ("20170179661") or ("9843150") or ("20140070036") or ("20180088724") or ("20190057799") or ("20180087767") or ("10182623") or ("9702741") or ("9967653") or ("8978854") or ("20180091897") or ("20190348791") or ("20160084683") or ("8218306") or ("10425241") or ("10025352") or ("20110175601") or ("20190103751") or ("20180091894") or ("20180227661") or ("7841120") or ("20170235339") or ("10129667") or ("20160037897") or ("20160313669") or ("10298037") or ("9432490") or ("9930444") or ("9457730") or ("20030030342") or ("20130084921") or ("20150271961") or ("20130183000") or ("20190230434") or ("9733669") or ("20180054077") or ("9429940") or ("20160094090")).PN. or (("9588462") or ("20130187020") or ("9342073") or ("20130328914") or ("9035872") or ("10250783") or ("20190186857") or ("20180091888") or ("9974206") or ("20140144624") or ("20180091896") or ("20180227664") or ("20190346653") or ("9876266") or ("10123608") or ("9904501") or ("20160217896") or ("20160037896") or ("9964999") or ("20180217669") or ("10004142") or ("9682451") or ("20180013934") or ("10117504") or ("20150224941") or ("8947076") or ("20160037877") or ("9829655") or ("10377459") or ("20160301157") or ("20150318100") or ("10401982") or ("10458736") or ("20190230259") or ("20130050958") or ("20150221460") or ("20140152890") or ("20150083838") or ("10290440") or ("20070104340") or ("20190053610") or ("20130076597") or				

		("20160022374") or ("20190046993") or ("8847979") or ("20190228927") or ("20180281914") or ("9007157") or ("20170205847") or ("20170068276") or ("20170123348") or ("20160246248") or ("20060230297") or ("9755355") or ("9145666") or ("10020668") or ("20180088690") or ("9478339") or ("20140328621") or ("20180249079") or ("20170215293") or ("20130206942") or ("20150077372") or ("20190233075") or ("20170070801") or ("20160373870") or ("20180181361") or ("5933330") or ("10225640") or ("20170033567") or ("20130082585") or ("9469469") or ("9904209") or ("9417600") or ("20090059485") or ("20170269641") or ("9838085") or ("20160118179") or ("4027278") or ("10469635") or ("9291989") or ("20170150539") or ("20180218859") or ("20180237214") or ("9377807") or ("9447619") or ("20150300839") or ("20130100605") or ("20170300095") or ("20180187828") or ("20190141846") or ("20100156345") or ("9826302") or ("20180013229") or ("8576034") or ("20180063433") or ("20130169391") or ("20110253895") or ("20190291191") or ("7974662") or ("8762704") or ("7152440") or ("9883273") or ("20130176626") or ("20130083470") or ("20090088227") or ("20150359367") or ("10073499") or ("9729683") or ("20180364699") or ("20120154288") or ("9575555") or ("20180249078") or ("9787346") or ("10367300") or ("20190313025") or ("9948719") or ("10003333") or ("20180259285") or ("20180011390") or ("20160198824") or ("9019718") or ("10423155") or ("20150270900") or ("20160266606") or ("20180217668") or ("9170608") or ("8242741") or ("20170222681")).PN. or (("9386872") or ("20170318376") or ("20160349748") or ("20140187057") or ("20090297136") or ("20150318655") or ("20100081377") or ("20150024809") or ("20180107247") or ("9930257") or ("9086836") or ("9317243") or ("20190158946") or ("10228208") or ("9882305") or ("20140062629") or ("20170011834") or ("20190036363") or ("20150179324") or ("8548541") or ("20080143954") or ("10348965") or ("8581739") or ("20150049426") or ("20130343025") or ("7645143") or ("20090147471") or ("10294016") or ("9827504") or ("20170170677") or ("10416537") or ("20110006611") or ("20130048463") or ("9836083") or ("9083111") or ("8564950") or				

		("20150007431") or ("20130342159") or ("8455826") or ("20190289716") or ("9501108") or ("10044232") or ("20190141854") or ("9518840") or ("20190137728") or ("9041347") or ("20080002355") or ("8866571") or ("10401590") or ("7845953") or ("20180245374") or ("10133308") or ("9419378") or ("20160091925") or ("20180013221") or ("20130077221") or ("9474345") or ("9118143") or ("8233948") or ("9497054") or ("20150362962") or ("20140209503") or ("20170220077") or ("20130164949") or ("20120281346") or ("9093234") or ("7641477") or ("9281109") or ("20080132302") or ("20130083464") or ("20160101741") or ("7583495") or ("20150236444") or ("20130309935") or ("10250064") or ("7517222") or ("20130113423") or ("10005611") or ("6595608") or ("20160377891") or ("20090176391") or ("10170851") or ("9899132") or ("6155126") or ("10465422") or ("20190296482") or ("9050932") or ("9090214") or ("20160094691") or ("7810750") or ("9461431") or ("9886032") or ("20160344136") or ("4756312") or ("20180315563") or ("4273976") or ("9690385") or ("20190074729") or ("20140345957") or ("7917028") or ("20170202598") or ("20040226424") or ("9116655") or ("20120082317") or ("10468919") or ("7577467") or ("20170040825") or ("20170138101") or ("10466510") or ("9569002") or ("20060230296") or ("20180062420") or ("20160198782") or ("20110051982") or ("20160015887") or ("20180136584") or ("20160015886") or ("20130088828") or ("10381881") or ("9917468") or ("8803701") or ("8688037") or ("20140078462") or ("20180073275") or ("20140254077") or ("20190074724") or ("9606375") or ("20180013271") or ("9597607") or ("20130120106") or ("7652888")).PN. or (("8373310") or ("20170227793") or ("8540363") or ("8967355") or ("8644519") or ("20120315864") or ("10036186") or ("9417678") or ("20160015911") or ("10248048") or ("20120282124") or ("8890369") or ("20180212358") or ("8467829") or ("20170149474") or ("20160015885") or ("20190131847") or ("20180245375") or ("20180220213") or ("20140072261") or ("20170179622") or ("20130048462") or ("20160015956") or ("20170092402") or ("20190192367") or ("20180059791") or ("20190074719") or ("20080252476") or ("20180013272") or ("10105149") or ("20160057879") or ("20190281715") or				

		("10431360") or ("20150237750") or ("20160015957") or ("20170070131") or ("8342325") or ("9831599") or ("20120211382") or ("9164246") or ("9329641") or ("20180234529") or ("20190310706") or ("20180136686") or ("7311526") or ("9693609") or ("20170196086") or ("20180077810") or ("10481417") or ("10389858") or ("20160015888") or ("20140077954") or ("10455306") or ("20150056847") or ("20130088130") or ("20180012710") or ("10082241") or ("20090252488") or ("20180077806") or ("9917937") or ("20130188312") or ("9992888") or ("20130048461") or ("20170366652") or ("20140227026") or ("9280084") or ("20180164537") or ("20190312421") or ("20170303026") or ("20140281633") or ("20080024964") or ("20170049973") or ("20160213414") or ("8526180") or ("9229675") or ("4025885") or ("20180169324") or ("9502873") or ("20160208580") or ("20140027317") or ("9246551") or ("20180206607") or ("8780548") or ("6517777") or ("20140045559") or ("9452255") or ("9380723") or ("20170312421") or ("20180252359") or ("9918395") or ("10165814") or ("20130092576") or ("10256568") or ("20120163754") or ("20170333620") or ("20070141860") or ("10303216") or ("9601286") or ("20120044081") or ("20170072135") or ("20150084357") or ("20130082955") or ("20170072136") or ("20180183916") or ("20150311011") or ("20170250563") or ("20180169323") or ("10474108") or ("20160284497") or ("20130083468") or ("20180169325") or ("20170086551") or ("9452256") or ("8769772") or ("8887890") or ("20190094811") or ("20180245373") or ("20160066460") or ("20160131358") or ("9778690") or ("20180186242") or ("8570737") or ("20180245372") or ("20110170256") or ("20190072999") or ("20170333621") or ("20140372940")).PN. or (("20130083558") or ("9549598") or ("20130077226") or ("10387020") or ("20150237748") or ("8497753") or ("10244630") or ("10268274") or ("9744291") or ("20110136351") or ("20190070358") or ("20180129078") or ("20190076597") or ("9722450") or ("20190290297") or ("9744290") or ("9925330") or ("9439314") or ("10133314") or ("9789245") or ("9785188") or ("20190074706") or ("9277661") or ("10376632") or ("9517299") or ("20120118773") or ("20160066459") or ("20070072442") or ("10376631") or ("9098069") or ("10172998") or				

		("8881882") or ("20180239431") or ("9692147") or ("8783457") or ("20190033917") or ("20150086210") or ("9931460") or ("9931459") or ("6367344") or ("10299554") or ("8531824") or ("20150090748") or ("20150220111") or ("9926953") or ("20180157401") or ("20150137978") or ("20170012661") or ("20130120459") or ("8973753") or ("10491041") or ("8087939") or ("9262900") or ("20100081473") or ("20170138763") or ("20160084434") or ("20160322745") or ("9548576") or ("20160048165") or ("10291059") or ("7351066") or ("20130175986") or ("10166327") or ("20140262847") or ("20160352385") or ("20140217863") or ("9822611") or ("7515405") or ("20190138073") or ("20150022324") or ("10172999") or ("20160006288") or ("9288922") or ("20190101960") or ("9125506") or ("10107646") or ("9107299") or ("20180327981") or ("20180028818") or ("20130043777") or ("7331793") or ("20160029844") or ("8393466") or ("9696752") or ("10070871") or ("9998166") or ("10340969") or ("9247661") or ("9423671") or ("9627163") or ("20170076885") or ("10429722") or ("9370279") or ("9899753") or ("10370872") or ("20140016217")).PN.				
S196	1	("20190215975").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:15
S197	4	(("20110101185") or ("20110228504") or ("20180130389") or ("8384616")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:36
S198	186	(("7742289") or ("20100014228") or ("20150238073") or ("10131280") or ("20070097618") or ("20070097619") or ("9782159") or ("20080151489") or ("20180256145") or ("20150018622") or ("7317613") or ("7606026") or ("10231607") or ("7499272") or ("9783114") or ("20150146000") or ("20190380566") or ("20120236152") or ("8908039") or ("20070097617") or ("20180029534") or ("20140239139") or ("7502226") or ("9492065") or ("9723976") or ("20140005486") or ("20180064316") or ("9615728") or ("9681796") or ("20140005489") or ("8882662") or ("20140005484") or ("20160100908") or ("20190096174") or ("20150141759") or ("9216068") or ("20180064317") or ("20140005487") or	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:39

		("20140005485") or ("9936863") or ("9642606") or ("20180055348") or ("20180070804") or ("9492073") or ("9629523") or ("20140005488") or ("20180353059") or ("20180055502") or ("10022041") or ("20140005555") or ("20150272694") or ("20190046021") or ("20150197879") or ("20100134964") or ("7821495") or ("20070057914") or ("20140247612") or ("8934226") or ("20120268878") or ("9476575") or ("9588550") or ("9538675") or ("20090065667") or ("8960634") or ("20100155265") or ("20070247800") or ("20170251558") or ("20140125875") or ("20150163936") or ("9924603") or ("8171761") or ("20120199501") or ("8313072") or ("20140171843") or ("20130271940") or ("9655267") or ("20180279490") or ("20070257178") or ("20080000477") or ("20090257603") or ("10098246") or ("20180228687") or ("20100193650") or ("7497412") or ("20170112707") or ("20150227267") or ("20110315844") or ("20070257181") or ("7891624") or ("20110108692") or ("6215518") or ("8460223") or ("9702500") or ("7922139") or ("20160255731") or ("9792758") or ("20160005266") or ("7988119") or ("9968511") or ("20160001188") or ("8297578") or ("20090192421") or ("8582316") or ("8194133") or ("20130063920") or ("20060164230") or ("20130086797") or ("9247683") or ("8462103") or ("20160202734") or ("20160320808") or ("7370983") or ("20080266389") or ("20170343150") or ("20050200696") or ("6604831") or ("20190102980") or ("9939100") or ("7789756") or ("20050264543") or ("20190371117") or ("8964298") or ("20110031287") or ("10395466") or ("20050146844") or ("20160005262") or ("20110002110") or ("20130127980") or ("20130235282")).PN. or (("20060205504") or ("20180141499") or ("10220797") or ("9983620") or ("20090243970") or ("20070252489") or ("20050202879") or ("8542499") or ("9082325") or ("20080156949") or ("20170086309") or ("10359145") or ("20060119539") or ("8400371") or ("20120224347") or ("20130278631") or ("8075384") or ("7871048") or ("8687352") or ("10495255") or ("20170006727") or ("6967632") or ("9185782") or ("20180038543") or ("7542012") or ("9267638") or ("20130134291") or ("20190075944") or ("20150220300") or ("20100066640") or ("20160210886") or ("20190166704") or ("9945509") or ("8382059") or				

		("9506281") or ("20090269943") or ("20050127260") or ("8342857") or ("10485362") or ("10290177") or ("20110136350") or ("20070197896") or ("20160005261") or ("5407519") or ("7963773") or ("20140203727") or ("8190238") or ("20160062416") or ("7175152") or ("20190197666") or ("20170159876") or ("9845816") or ("20190206183") or ("20190295459") or ("20190206182") or ("20170322634") or ("20130107137")).PN.				
S199	4,622	G06F1/1601.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:45
S200	4,858	G06F3/147.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:45
S201	775	G09F9/3026.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:46
S202	429	G09F7/20.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:46
S203	5,254	345/1.1,1.3,33,55.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:46
S204	2,087	248/917,919,920,921,922,923.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:46
S205	215	361/679.04.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:46
S206	215	361/679.04.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:52
S207	81	S205 AND WALL	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:52

S208	57	("20030039094" | "20030090866" | "20030154673" | "20040212745" | "20060238967" | "20060243872" | "20070007411" | "20070170325" | "20070252060" | "20080123284" | "20090184221" | "20100171014" | "20110002129" | "4657316" | "4866530" | "4919287" | "4920458" | "5299017" | "5321579" | "5348324" | "5351176" | "5579597" | "5636101" | "5786995" | "5805117" | "6054968" | "6359775" | "6594078" | "6688518" | "6692093" | "6841790" | "6883563" | "6989800" | "7019786" | "7176380" | "7334766" | "7408596" | "7430111" | "7438269" | "7510156" | "7513469" | "7546745" | "7661643" | "7663706" | "7712717" | "7719480" | "7780124" | "7866622" | "7869201" | "7891622" | "D390143").PN. OR ("8313072").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:54
S209	2,443	g06f1/1647.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:59
S210	11,517	g06f3/147,1446,1423.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:59
S211	775	g09f9/3026.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:59
S212	354	(("20190364656") or ("20190311968") or ("20060232940") or ("10091894") or ("20170086313") or ("20140072855") or ("20140087231") or ("20150359107") or ("8317525") or ("20110256749") or ("20070175656") or ("5218516") or ("20170006711") or ("10098240") or ("7807931") or ("20180302999") or ("20110134610") or ("20150211718") or ("7911051") or ("20110170258") or ("20160212835") or ("20150173227") or ("8477502") or ("10015875") or ("4698729") or ("20180359874") or ("20180352666") or ("9237679") or ("10462915") or ("20130314876") or ("20170082466") or ("20110017497") or ("8344258") or ("20190230804") or ("20160088771") or ("9930809") or ("6851598") or ("9060454") or ("20120057320") or ("20030038157") or ("20100226098") or ("8339789") or ("20040028315") or ("20080094805") or ("8547701") or ("6661664") or ("20020172010") or ("20090056980") or ("20100230151") or ("6504722") or ("7746653") or ("20180303009") or ("20090168360") or ("8964392") or ("7697300") or	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:24

		("6929975") or ("20080144290") or ("4665467") or ("7995351") or ("20150098193") or ("8366297") or ("20010046121") or ("20120182731") or ("20040048414") or ("7095614") or ("20090161319") or ("5712765") or ("20060067054") or ("6552903") or ("7775708") or ("20050231918") or ("20090052146") or ("7215551") or ("20180132353") or ("20130208425") or ("20120127736") or ("9769945") or ("20080212647") or ("20150043177") or ("10085345") or ("10237979") or ("20150208541") or ("7804030") or ("20180177058") or ("20020003692") or ("20080037229") or ("20190045628") or ("8089768") or ("5510958") or ("9699929") or ("20190324372") or ("20180376597") or ("20070107511") or ("20060076686") or ("8811019") or ("20130044436") or ("20130329370") or ("20120222808") or ("6185100") or ("9345139") or ("7373816") or ("9433130") or ("20120040541") or ("20150257309") or ("8579637") or ("9241424") or ("6459585") or ("20120240396") or ("20140038474") or ("20180151968") or ("20090213552") or ("20080293261") or ("7780469") or ("20110255850") or ("9532460") or ("20110255250") or ("9472486") or ("10366939") or ("20150022976") or ("9763344") or ("20090301765") or ("7583504") or ("7179140") or ("20030067754") or ("6757171") or ("20080266808") or ("20160172267") or ("20160100505") or ("20180203490")).PN. or (("20150243937") or ("20180114742") or ("20160021730") or ("20140362535") or ("6225559") or ("10120424") or ("20040266244") or ("10034412") or ("9756717") or ("8253026") or ("20130121759") or ("20080043441") or ("20140307403") or ("20030227760") or ("8789271") or ("5276584") or ("20110100598") or ("7609527") or ("6985366") or ("20110069448") or ("20060105495") or ("20190057923") or ("20190335577") or ("9107295") or ("20190335621") or ("5901036") or ("6674344") or ("5402313") or ("20160353616") or ("9408291") or ("20160128208") or ("7299546") or ("9642288") or ("20180124956") or ("20130314878") or ("8792242") or ("20130146352") or ("20020137391") or ("9562548") or ("9265148") or ("20110044005") or ("20060218782") or ("6088228") or ("20150029669") or ("20190335576") or ("20140113171") or ("10014232") or ("20150216038") or ("20070227761") or ("9532459") or ("8488324") or				

		("8076586") or ("20110051384") or ("8837141") or ("9642266") or ("20150096800") or ("20100202110") or ("8468691") or ("20090217519") or ("20160165727") or ("5999407") or ("4994937") or ("9531094") or ("7115821") or ("20140104786") or ("20160064841") or ("20150043169") or ("9516748") or ("20150107882") or ("9706694") or ("5528461") or ("8087943") or ("10057989") or ("20130301231") or ("10426040") or ("20140347821") or ("20140104776") or ("4953059") or ("20190234602") or ("7754977") or ("20060120060") or ("5305185") or ("20160044794") or ("20110100681") or ("20180359860") or ("20090194884") or ("20150092350") or ("9568259") or ("5943213") or ("7217043") or ("20120037403") or ("20140102626") or ("7450400") or ("7557442") or ("8164904") or ("20090040727") or ("7237724") or ("6921973") or ("20040140554") or ("20140240927") or ("20140182898") or ("7172347") or ("6507108") or ("20080192445") or ("7808785") or ("4441140") or ("6230397") or ("20190150272") or ("20050230820") or ("9500793") or ("20090097208") or ("8817458") or ("9338895") or ("20170354036") or ("9746879") or ("9912211") or ("20060072881") or ("8998454") or ("20080253089") or ("20150177779") or ("20060226240") or ("20140104775") or ("20090190310") or ("8632346") or ("20150109812") or ("20140268780") or ("20090290301") or ("20070131349") or ("8885343") or ("9706668") or ("6045396")).PN. or (("20100000655") or ("8902606") or ("6606254") or ("20130078828") or ("20190035709") or ("5812374") or ("7881059") or ("9801286") or ("5483420") or ("20140104766") or ("6222732") or ("20160227652") or ("9041196") or ("20130135883") or ("20080198557") or ("5966288") or ("20080151487") or ("5883784") or ("5986886") or ("20020118527") or ("20130141913") or ("8861220") or ("7768785") or ("20140035118") or ("5107404") or ("20120108083") or ("5321582") or ("8630092") or ("9585280") or ("20120176764") or ("20180269828") or ("20110205711") or ("20080017174") or ("9620873") or ("20160057882") or ("20110036627") or ("7483271") or ("9991435") or ("7645998") or ("20140106578") or ("20150124411") or ("7575443") or ("20070211442") or ("8072768") or ("6820798") or ("6042388") or ("20160043485") or ("20100163210") or ("7542291") or ("8436711") or				

		("20090314522") or ("20090122494") or ("20050124224") or ("8834182") or ("9418930") or ("20110234356") or ("20070297145") or ("20090041994") or ("20070212920") or ("10212802") or ("20140000941") or ("9913376") or ("7520781") or ("4373259") or ("4508163") or ("6923580") or ("7796399") or ("20090166339") or ("20070034807") or ("6035513") or ("4330812") or ("4912601") or ("6538196") or ("20140104811") or ("20080207020") or ("9271399") or ("6243269") or ("9736968") or ("7397662") or ("20180115027") or ("9883612") or ("4222090") or ("7666003") or ("9253888") or ("5783881") or ("10270138") or ("20180007779") or ("6038130") or ("20090002959") or ("20090168363") or ("4809134") or ("8966747") or ("20130148320") or ("20100202114")).PN.				
S213	573	((("ROBIN") near3 ("Hermann")) OR (("HEMPEN") near3 ("Martin")) OR (("MAIER") near3 ("Thomas"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/12/23 13:25
S214	128	((("NAKANO") near3 ("Yuzo"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/12/23 13:25
S215	65	((("ALVA") near3 ("Samarth")) OR (("VARADARAJAN") near3 ("Krishnakumar")) OR (("CHANNAIAH") near3 ("Yogesh")) OR (("PILLAI") near3 ("Prakash")) OR (("PAWAR") near3 ("Sagar")) OR (("TULJAPURKAR") near3 ("Aneesh")) OR (("N") near3 ("Raghavendra"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/12/23 13:25
S216	116	((("CHANG") near3 ("Cheng-Wen")) OR (("TSAI") near3 ("CHEN-YU")) OR (("WANG") near3 ("CHUN-YUAN")) OR (("LEE") near3 ("CHENG-YI"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/12/23 13:25

S217	299	((("CHEN") near3 ("Chao-Jung")) OR (("LIU") near3 ("Kun-Pei"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/12/23 13:25
S218	15,375	G06F1/20,203,206.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:35
S219	8,481	H05K1/0207,181.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:36
S220	1,847	H05K3/303.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:36
S221	1,307	H05K7/20472,2049,20509.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:36
S222	7,240	361/704,707,711,709.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:37
S223	167	S212 AND FILM	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:38
S224	56	S223 and (PCB or (circuirt near board))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:38
S225	165	S223 and (PCB or (circuit near board))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:38
S226	89	S225 and (heat near conduct$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:38
S227	89	S226 and component$1	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:39

S228	3	"20150220109"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:53
S229	1	"20160070393"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:53
S230	55	(US-20160370828-$ or US-20190205596-$ or US-20120242635-$ or US-20110267298-$ or US-20130177302-$ or US-20180126704-$ or US-20150362333-$ or US-20140145515-$ or US-20160141884-$ or US-20160001663-$ or US-20130281155-$ or US-20130236192-$ or US-20170063102-$ or US-20170090516-$ or US-20180107253-$ or US-20140021909-$ or US-20120113576-$ or US-20100014235-$ or US-20080258679-$ or US-20070035917-$ or US-20170060186-$ or US-20050168937-$ or US-20190013687-$ or US-20180358826-$ or US-20180323636-$ or US-20180109148-$).did. or (US-20180098366-$ or US-20140152235-$ or US-20140059263-$ or US-20130175986-$ or US-20150077438-$ or US-20190072912-$ or US-20170042477-$ or US-20160287102-$ or US-20160139702-$ or US-20160116941-$ or US-20150220109-$ or US-20130287622-$ or US-20130196169-$ or US-20160061726-$ or US-20160070393-$).did. or (US-9632530-$ or US-6593859-$ or US-5864708-$ or US-5793606-$ or US-9442526-$ or US-9107027-$ or US-9436220-$ or US-6151645-$ or US-10039147-$ or US-6553667-$ or US-5526867-$ or US-5163499-$ or US-4120930-$ or US-9582749-$).did.	US-PGPUB; USPAT	OR	OFF	2019/12/23 13:54
S231	13	S230 and ink	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:54
S232	19	S230 and (ink or color)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:54
S233	16	S232 and (fill$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:54
S234	4	S228 S229	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 14:00

S248	1	"7948758".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 12:42
S249	5	("20100310225" | "20020117942" | "20100172087" | "20060018622" | "20140204537").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 12:56
S250	267	haughton.xa.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 13:02
S251	1,375	haughton.xp.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 13:02
S252	3,862	361/724-727.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 13:02
S253	29	S251 and S252	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 13:02
S254	23	S250 and S252	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 13:13
S255	11	("20020078290" | "20020079791" | "20020090846" | "20030005199" | "20030049105" | "5388032" | "5604662" | "6031795" | "6243328" | "6272573" | "6856505").PN. OR ("7808794").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 13:14
S256	48	("20040042168" | "20080023416" | "4589659" | "4762378" | "5161028" | "5168423" | "5168426" | "5173686" | "5175672" | "5566048" | "5708561" | "5838536" | "5870280" | "5923528" | "6144549" | "6185092" | "6189850" | "6219323" | "6233138" | "6407933" | "6433791" | "6445573" | "6510049" | "6530784" | "6587333" | "6654236" | "6657857" | "6778381" | "6791826" | "6816361" | "6816389" | "6827581" | "8616177").PN. OR ("7436674").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 13:15
S257	19	("20010023141" | "5216411" | "6018456" | "6462670" | "6597566" | "6636426" | "6654239" | "6702412" | "6717802" | "6754084" | "6778381" | "6919816" | "6962397" | "6976745" | "7436674").PN. OR ("7474229").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 13:24

S258	26	("20020171334" | "20030149840" | "20060010456" | "20060133050" | "20070115627" | "20070230111" | "20080106871" | "20100061064" | "2566064" | "3586410" | "5506750" | "5584396" | "6535391" | "6621693" | "6788544" | "6826055" | "6988626" | "6999306" | "7042721" | "7474229" | "7724543" | "8120922" | "8538226" | "8797732").PN. OR ("9516777").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 13:36
S259	9	("20100238620" | "20130010405" | "20130170126" | "20150146069" | "20160232856" | "20180120895" | "9274562" | "9395070" | "9697941").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 13:48
S260	8	S259 and touch	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 13:49
S261	5	S260 and batter$3	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 13:50
S262	4	S259 not S261	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 13:51
S263	1	S259 and sealant	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:01
S264	2	"20150146069"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:04
S265	55	("10054988" | "20030160892" | "20040071285" | "20050151830" | "20050156952" | "20090097691" | "20100065832" | "20100117975" | "20100123160" | "20100156887" | "20100253902" | "20110001709" | "20110050657" | "20110128241" | "20110134144" | "20120105400" | "20120307423" | "20130002133" | "20130002583" | "20130076649" | "20130222208" | "20140029212" | "20140063719" | "20140099999" | "20140111954" | "20140247405" | "20140306260" | "20140375660" | "20150009128" | "20150014681" | "20150022515" | "20150022561" | "20150023031" | "20150048349" | "20150077615" | "20150084029" | "20150103023" | "20150138041" | "20160116941" | "20160343777" | "20170206835" | "5995025" | "7184086" | "7453426" | "8199471" | "8531411" | "8610155" | "8723824" | "8736162" | "8907868" | "8976141" | "9104262" | "9430180" | "9448592" | "9891815").PN. OR ("10142547").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:04

S266	12	S265 and sealant	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:05
S267	8	S266 and touch	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:06
S268	1,235	g06f1/1692.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:08
S269	4,010	g06f1/1643.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:09
S270	812	S268 and (touch near screen)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:09
S271	2,250	S269 and (touch near screen)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:09
S272	0	S270 and sealant	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:09
S273	22	S271 and sealant	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:09
S274	0	"2009037383"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:14
S275	2	"20090037383"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:14
S276	3	(("20090037383") or ("20030214485") or ("20060284856")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:14
S277	0	S276 and sealant	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:14

S278	1	S276 and seal$4	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:15
S279	267	S271 and seal$4	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:15
S280	72	S270 and seal$4	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:15
S281	3	"20150116920"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:22
S282	1	"20100238620"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 01:43
S283	15	(("7436674") or ("7808794") or ("7474229") or ("6778381") or ("6407933") or ("5173686") or ("5161028") or ("9516777") or ("6754084") or ("20070115627") or ("9943002") or ("8538226") or ("6788544") or ("6535391") or ("3586410")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 02:01
S284	2	(("7474229") or ("6535391")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 02:02
S285	5,584	h02m7/003,487.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 02:18
S286	5,222	H05K1/0231,144.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 02:18
S287	1,112	H05K7/209.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 02:18
S288	2,670	361/707,602,637,648,611.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 02:19
S289	238	((("DAME") near3 ("Mark")) OR (("HE") near3 ("Jiangbiao")) OR (("ZHANG") near3 ("Di"))).INV.	US-PGPUB; USPAT;	OR	OFF	2020/01/21 02:21

			USOCR; EPO; JPO; DERWENT			
S290	12,115	g06f1/32,16,1601,1603,1605,1607,1609,1611.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 02:31
S291	56	((("MAYFIELD") near3 ("Walter")) OR (("VALDEZ") near3 ("Daniel"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/01/21 02:31
S292	12,380	361/679.01,679.02,679.21-679.3.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 02:32
S293	1,367	B08B1/002,006.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 02:32
S294	3	("0000003" | "0000016" | "0000510").PN.	US-PGPUB; USPAT	OR	OFF	2020/01/21 02:40
S295	3	(("4742864") or ("20030224717") or ("20160165750")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 02:43
S296	5	(("4742864") or ("20030224717") or ("20160165750") or ("20060073783") or ("20170339803")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 02:48
S300	31	("20040001049" | "20060183505" | "20090244016" | "20100238620" | "20100321275" | "20150103014" | "20170069299" | "20170255320" | "20170344120" | "20180088632" | "20180121012" | "20180129391" | "20180188774" | "20180232010" | "5739810" | "5847698" | "6510048" | "6700773" | "6922333" | "7061472" | "7551428" | "7663602" | "7990702" | "7991442" | "8310823" | "8331098" | "8803816" | "8988876" | "9684342" | "9740237" | "9874908").PN.	US-PGPUB; USPAT	OR	OFF	2020/01/21 10:41
S301	1,236	g06f1/1692.cpc.	US-PGPUB;	OR	OFF	2020/01/21 10:57

			USPAT; USOCR			
S302	1,016	g06f1/1669.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 10:57
S303	18	S301 and S302	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 10:57
S304	1,073	g06f1/1671.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 10:57
S305	2,466	g06f1/1647.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 10:58
S306	74	S302 and S304	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 10:58
S307	37	S302 and S305	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 10:58
S308	157	S304 and S305	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 10:58
S309	46	S304 and S301	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 10:58
S310	231	S303 S308 S309 S307	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 10:59
S311	28	("20030026068" | "20050052835" | "20050083308" | "20060034042" | "20060044286" | "20090190295" | "20090262494" | "20100245209" | "5241303" | "5375076" | "5440502" | "5550712" | "5579487" | "5739810" | "5768164" | "6259597" | "6266241" | "6487069" | "6643124" | "6654234" | "6700773" | "6865075" | "6930881" | "7145766").PN. OR ("7990702").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:05

S312	267	haughton.xa.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:07
S313	1,378	haughton.xp.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:07
S314	1,645	S312 S313	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:07
S315	6	S310 and S314	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:07
S316	6	S310 and S314	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:07
S317	25	S302 and S314	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:08
S318	13,975	g06f1/1626.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:10
S319	98	S314 and S318	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:10
S320	49	S319 and (keyboard$1 or keypad$1 or (key near board$1) or (key near pad$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:11
S321	7	("20050052831" | "5375076" | "6788527" | "7136282" | "7742290" | "8289688").PN. OR ("9671829").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:12
S322	1	"20050052835"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:17
S323	16	("2005/0052835").URPN.	USPAT	OR	OFF	2020/01/21 11:17

S324	0	("20170003757").PN.	USPAT	OR	OFF	2020/01/21 11:18
S325	6	("20050052835" | "20090244016" | "20100245209" | "20170023972" | "20180188774" | "6700773" | "6922333" | "7061472" | "7990702" | "8331098" | "9053250").PN.	USPAT	OR	OFF	2020/01/21 11:19
S326	11	("20050052835" | "20090244016" | "20100245209" | "20170023972" | "20180188774" | "6700773" | "6922333" | "7061472" | "7990702" | "8331098" | "9053250").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:19
S327	1	("20170003757").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:19
S328	12	S326 S327	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:19
S329	21	("20040001049" | "20090244016" | "20100238620" | "20100321275" | "20150103014" | "5739810" | "5847698" | "6510048" | "6700773" | "6922333" | "7061472" | "7551428" | "7663602" | "7990702" | "7991442" | "8310823" | "8331098" | "8988876" | "9684342" | "9740237" | "9874908").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:22
S330	27	S328 S329	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:22
S331	13	("20050188899" | "20090244016" | "20130070408" | "20160294113" | "5503361" | "6044758" | "6046571" | "6173933" | "7052296" | "7380759" | "7492579" | "8634188" | "8724312").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:22
S332	39	S330 S331	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:28
S333	1	"6700773".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:28
S334	28	("20030026068" | "20050052835" | "20050083308" | "20060034042" | "20060044286" | "20090190295" | "20090262494" | "20100245209" | "5241303" | "5375076" | "5440502" | "5550712" | "5579487" | "5739810" | "5768164" | "6259597" | "6266241" | "6487069" | "6643124" | "6654234" | "6700773" |	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:36

		"6865075" | "6930881" | "7145766").PN. OR ("7990702").URPN.				
S335	28	S311 S334	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:36
S336	64	("5262926" | "5414444" | "5508720" | "5644338" | "5739810" | "5926364" | "5949643" | "5966284" | "6006243" | "6144358" | "6295038" | "6297752" | "6304431" | "6327482" | "6341061" | "6492974" | "6700773" | "6836404").PN. OR ("7061472").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:38
S337	82	S335 S321 S323 S325 S326 S327 S328 S329 S330 S331 S332 S333	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:39
S338	57	S336 not S337	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:39
S339	43	("6366440" | "6493215" | "6510048" | "6672796").PN. OR ("6922333").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:41
S340	139	S337 S338	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:42
S341	38	S339 not S340	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:42
S342	177	S339 S340	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:42
S343	1,016	g06f1/1669.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:43
S344	1,236	g06f1/1692.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:44
S345	125	S343 and ((first and second) near2 (display$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:44

S346	856	S344 and (keyboard$1 or keypad$1 or (key near board$1) or (key near pad$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:45
S347	1	"8300389".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:52
S348	483	S346 and ((first and second) near2 (display$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:58
S349	118	S345 and (keyboard$1 or keypad$1 or (key near board$1) or (key near pad$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:58
S350	47	S348 and ((keyboard$1 or keypad$1 or (key near board$1) or (key near pad$1)) with (stor$3 or compartment or holder or latch$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:59
S351	42	S349 and ((keyboard$1 or keypad$1 or (key near board$1) or (key near pad$1)) with (stor$3 or compartment or holder or latch$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:59
S352	86	S350 S351	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:00
S353	1	"20180046225"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:03
S354	0	("2018/0046225").URPN.	USPAT	OR	OFF	2020/01/21 12:03
S355	29	("20050207102" | "20060148541" | "20070217129" | "20080062625" | "20090322967" | "20100041439" | "20100128428" | "20110002096" | "20110216415" | "20110279992" | "20120147535" | "20120194448" | "20120212924" | "20170102740" | "5796575" | "6094341" | "6256192" | "6259597" | "6700773" | "7542273" | "7821780" | "8264599" | "8264829" | "8284549" | "8289688" | "8405978" | "8467186" | "8624844" | "9137917").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:04
S356	3	("20050128676" | "20120162889" | "7755882").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:06

S357	32	S355 S356	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:06
S358	1	"20160320810"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:06
S359	3	("20120039023" | "20130335327" | "20140333542").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:06
S360	3	("20120039023" | "20130335327" | "20140333542").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:07
S361	3	S359 S360	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:07
S362	2	"20100039764"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:11
S363	7	("20070076362" | "20080062625" | "20080203817" | "6421235").PN. OR ("8730669").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:11
S364	3	(("8300389") or ("20080062625") or ("20100039764")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:16
S365	9,106	g06f1/1632.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:20
S366	1,236	g06f1/1692.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:21
S367	71	S365 and S366	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:27
S368	406	((("QUINN") near3 ("Liam")) OR (("ROBINETTE") near3 ("Christopher")) OR (("KNOPPERT") near3 ("Michiel"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:35

			; EPO; JPO; DERWENT			
S369	884	(("10495254") or ("20190107245") or ("10296053") or ("10503215") or ("10254803") or ("10503207") or ("10296052") or ("8576562") or ("20120206873") or ("9983620") or ("20100197165") or ("7959459") or ("20190272020") or ("20090122019") or ("20110050388") or ("8988190") or ("9521477") or ("7876566") or ("10080073") or ("20160011754") or ("20170094383") or ("20180046214") or ("6383051") or ("20190004568") or ("20160299526") or ("6537123") or ("20160135619") or ("9713397") or ("20020061699") or ("10459485") or ("7940520") or ("20090231794") or ("20090115197") or ("7471511") or ("7815228") or ("20150098602") or ("8035961") or ("9983637") or ("20190011950") or ("6647652") or ("20190243420") or ("10303213") or ("20180321891") or ("20110080705") or ("6971197") or ("20050274682") or ("20040212610") or ("20180137789") or ("9497697") or ("8812748") or ("20130077236") or ("20080103637") or ("8144119") or ("20050236347") or ("7306096") or ("20160010673") or ("7219808") or ("20060091027") or ("20160306393") or ("20160025119") or ("20170300084") or ("20160003269") or ("20170235341") or ("9575707") or ("20200019368") or ("20100268860") or ("9851749") or ("20040014347") or ("10372164") or ("10289163") or ("6769927") or ("9926953") or ("6263602") or ("20190129558") or ("20150235337") or ("10132340") or ("6272779") or ("10452191") or ("20110192857") or ("20150185879") or ("9465455") or ("20130277529") or ("20160282899") or ("6941691") or ("20200021115") or ("20030126778") or ("20160374418") or ("20080268696") or ("20070270016") or ("10149517") or ("20050236848") or ("7545629") or ("6850208") or ("9904501") or ("7686638") or ("20100290212") or ("7082035") or ("20090036219") or ("8274784") or ("20110286171") or ("7570486") or ("20190004764") or ("20130076597") or ("20060268509") or ("8052534") or ("10106292") or ("8432688") or ("20170341805") or ("20170208911") or ("9477269") or ("20180181361") or ("20080278269") or ("7262958") or ("20190280513") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:36

		("20160085271") or ("20160037876") or ("20060012965") or ("20170034918") or ("20120120587") or ("20180054897") or ("7203067") or ("20150378391") or ("20130235282") or ("20170026498") or ("20160166060") or ("20190053584") or ("20120008277") or ("20180125178") or ("6659516") or ("8437133")).PN. or (("9654605") or ("20110055594") or ("9848494") or ("20170124603") or ("10201089") or ("9894964") or ("20190243600") or ("9717339") or ("20190115780") or ("20020089190") or ("20090100732") or ("6536147") or ("20070015120") or ("20180190162") or ("9082325") or ("20180180894") or ("20180020850") or ("10437070") or ("20140077515") or ("10123593") or ("20130083464") or ("20060196841") or ("20100024271") or ("20160189578") or ("10327572") or ("20170031434") or ("8939482") or ("20190147196") or ("10489613") or ("20180039348") or ("20190313815") or ("20070247825") or ("20170118851") or ("8016135") or ("10339840") or ("10225636") or ("20150089851") or ("10228783") or ("9706677") or ("7374052") or ("20130232835") or ("9872413") or ("20050247835") or ("9727896") or ("20160073545") or ("20050166076") or ("20150262240") or ("20170084208") or ("20070241254") or ("20200018975") or ("20150043151") or ("20130082955") or ("10514877") or ("9690385") or ("8275999") or ("20100188812") or ("8120904") or ("20110064401") or ("20090259963") or ("20140265765") or ("20150124996") or ("7210046") or ("9858835") or ("7583515") or ("20100187386") or ("9286024") or ("20050231898") or ("9229496") or ("20080142457") or ("9582235") or ("9449538") or ("10452096") or ("9611881") or ("9727134") or ("10184506") or ("20130077221") or ("20150116364") or ("10452135") or ("20160037870") or ("20160040698") or ("20160069371") or ("20180180895") or ("10217388") or ("9588550") or ("20190350094") or ("20160040695") or ("20130083470") or ("10365493") or ("20190260862") or ("7400516") or ("9013867") or ("7016187") or ("10228750") or ("20190037712") or ("20130083466") or ("20070291461") or ("9877549") or ("9524139") or ("9317243") or ("10115375") or ("20170171371") or ("8439698") or ("20180374264") or ("20020095840") or ("8878794") or ("10264857") or				

		("8355031") or ("7131546") or ("20180120922") or ("9116655") or ("20150062097") or ("20120320514") or ("20160062393") or ("20190107869") or ("10013228") or ("20170140739") or ("20190285948") or ("9606664") or ("8879250") or ("20170052751") or ("20190121399") or ("20080246771") or ("20130083468") or ("20190339787") or ("20090290076") or ("20150279328") or ("20190104635") or ("20150130725") or ("20100238196")).PN. or (("10116776") or ("10176784") or ("20190216178") or ("20160051902") or ("10509484") or ("10085523") or ("10345953") or ("20080007931") or ("9086836") or ("10251299") or ("20130083467") or ("20110026203") or ("20050098510") or ("20130241720") or ("20160116943") or ("9182935") or ("9229675") or ("20150116362") or ("7359003") or ("9645607") or ("20130082585") or ("20170220186") or ("20140092546") or ("20160205804") or ("7583517") or ("20160124465") or ("20090079304") or ("8934226") or ("9235237") or ("20200019367") or ("20190171023") or ("20160110207") or ("9176701") or ("20110096490") or ("9582057") or ("20060000788") or ("20130083558") or ("20190189062") or ("20080093535") or ("9798357") or ("20150262463") or ("9946505") or ("20180235093") or ("20160254837") or ("20130083469") or ("9741271") or ("9658670") or ("20170201119") or ("20160365184") or ("9964995") or ("20170319953") or ("8199482") or ("20160098064") or ("20180232191") or ("20110026228") or ("10051752") or ("7510092") or ("20160327987") or ("7423256") or ("10524369") or ("9772863") or ("9548785") or ("20180036635") or ("20090047824") or ("10256660") or ("9652954") or ("8773581") or ("9839842") or ("10013226") or ("20140151248") or ("20150116094") or ("20120267374") or ("10514769") or ("20180107341") or ("8907906") or ("20170105297") or ("10092830") or ("6643965") or ("9128582") or ("20170085283") or ("20130080931") or ("20130094142") or ("20180365875") or ("20160202734") or ("20160320808") or ("20020189145") or ("9131756") or ("9747475") or ("20150227245") or ("20090238395") or ("20110006181") or ("9477438") or ("10254795") or ("20160041757") or ("20170098435") or ("20180307456") or ("8404053") or ("8166684") or ("20100002366") or ("20170184861") or ("9877403") or ("20160249750") or ("8045339") or				

		("20120325695") or ("9495012") or ("10146494") or ("20160324335") or ("9900041") or ("10121455") or ("20160001928") or ("8139809") or ("10061346") or ("20190018458") or ("20110048988") or ("20130088447") or ("20160154434") or ("8801054") or ("20170255441") or ("20170257969") or ("10082839") or ("20180173488") or ("20170315626") or ("20080072655") or ("9785188") or ("20130258573") or ("20190139515") or ("20140047674") or ("10429904") or ("20130293581") or ("8302923")).PN. or (("9728110") or ("8267245") or ("20160048369") or ("20180107242") or ("10015897") or ("20170315586") or ("10503454") or ("20130076656") or ("20070138806") or ("20140028243") or ("9747067") or ("9998166") or ("7309045") or ("20130080932") or ("20180084092") or ("7775567") or ("20160266672") or ("20170115691") or ("20120226369") or ("9807903") or ("20130148272") or ("20190113986") or ("9864561") or ("9532659") or ("20080278408") or ("20060091257") or ("20160349800") or ("9946308") or ("9474021") or ("20180060012") or ("10288890") or ("10445044") or ("10480711") or ("20150186093") or ("20160048165") or ("9841786") or ("20170156464") or ("20130076591") or ("9511903") or ("20050010708") or ("20190208655") or ("20190387645") or ("20130076657") or ("9229494") or ("10222833") or ("20150288942") or ("20100281723") or ("10089054") or ("7895784") or ("20180210507") or ("9158494") or ("9811302") or ("20160048300") or ("8841556") or ("20180217382") or ("20120081846") or ("7085871") or ("9645649") or ("10459676") or ("20140184471") or ("20160005341") or ("10031557") or ("20070133156") or ("20150227178") or ("9189773") or ("9639320") or ("20160078591") or ("20080307482") or ("20160309865") or ("20160054880") or ("20180107440") or ("9524027") or ("8842057") or ("9734743") or ("20180360234") or ("9008856") or ("10271031") or ("20180249798") or ("20090205876") or ("20080172915") or ("9086835") or ("20140217862") or ("20120266098") or ("20130100001") or ("20130319796") or ("20170031641") or ("20040183313") or ("20160061549") or ("8990711") or ("9998706") or ("20130050265") or ("20140071117") or ("20070113454") or ("20130144463") or ("9259639") or ("7583500") or				

		("20130083477") or ("20030131513") or ("20120275104") or ("20060268505") or ("20190339769") or ("10429903") or ("9317076") or ("10120421") or ("20160102805") or ("20160085406") or ("20150365123") or ("20170039019") or ("8582306") or ("8848355") or ("20160066717") or ("20170305144") or ("20190033925") or ("20140049911") or ("20150227206") or ("20130080929") or ("20150366374") or ("20190149643") or ("20160062631") or ("9046925") or ("20130076654") or ("10318129") or ("8915361") or ("20190324509") or ("7260962") or ("20160275829") or ("20190253886") or ("20180297353")).PN. or (("20160109061") or ("20160291920") or ("20160208507") or ("9235828") or ("20140092108") or ("8836842") or ("20160203107") or ("10129376") or ("20190278387") or ("20130076655") or ("20190018459") or ("10324499") or ("20120240055") or ("20150153783") or ("9668593") or ("20100302380") or ("8988876") or ("20100066640") or ("9395818") or ("9869423") or ("20160283086") or ("10470540") or ("20150309392") or ("9733665") or ("20090266951") or ("20190042082") or ("10359148") or ("20160313964") or ("20120309462") or ("10393157") or ("20160277052") or ("20120111881") or ("20120113572") or ("20130313387") or ("20120240054") or ("20160110149") or ("20180094769") or ("20170198890") or ("20140320696") or ("20150027911") or ("20170273200") or ("10404842") or ("20050201047") or ("20070293085") or ("10001335") or ("20130076929") or ("20160246381") or ("10082838") or ("20160142675") or ("20120240056") or ("20190084343") or ("20150359325") or ("7126816") or ("9494980") or ("9351237") or ("8540088") or ("20190000166") or ("9189018") or ("9195119") or ("9766707") or ("20180095499") or ("20100138675") or ("20150305591") or ("10019035") or ("20120266082") or ("10029453") or ("20090268401") or ("10514831") or ("9588545") or ("20190278329") or ("20160148558") or ("20160054902") or ("20170220310") or ("7542052") or ("20120225694") or ("20170242456") or ("10395566") or ("9668371") or ("7570485") or ("20170035170") or ("20160048370") or ("20090194492") or ("10125921") or ("20060209522") or ("20020023853") or ("8994713") or				

		("20190064878") or ("20180180893") or ("20130076598") or ("8564672") or ("10156969") or ("20160044152") or ("20130080937") or ("20100200523") or ("9436217") or ("20160210769") or ("20120081319") or ("20040173477") or ("9885466") or ("20180231222") or ("9208477") or ("10534184") or ("9433337") or ("9993065") or ("20130245882") or ("20150201723") or ("20110255289") or ("20160062593") or ("20120218202") or ("9582035") or ("20120081310") or ("20160037625") or ("20120225693") or ("20170118852") or ("7085132") or ("20100192171") or ("20030205546") or ("20110051339") or ("9980402") or ("7257971") or ("20050111181") or ("20120220340") or ("9019397") or ("10037054") or ("9001103") or ("20160103597") or ("20120103855") or ("20020050548")).PN. or (("9110630") or ("10303215") or ("20120084682") or ("20160266606") or ("20120214552") or ("20190171405") or ("20170038934") or ("20160191101") or ("20150309535") or ("20180295264") or ("10010789") or ("20160210886") or ("10172400") or ("20190059481") or ("20130138945") or ("20120242702") or ("20120242703") or ("20140267457") or ("20120220341") or ("10237394") or ("7465189") or ("20040129587") or ("20100039372") or ("20100007646") or ("10429888") or ("20170010633") or ("7508657") or ("20180294831") or ("20170059087") or ("20190257506") or ("20130033477") or ("20150301393") or ("9910462") or ("20100020482") or ("8520837") or ("8386672") or ("9560751") or ("20190341030") or ("20170238412") or ("20160133203") or ("10208934") or ("7952863") or ("20160051901") or ("20170182410") or ("10419648") or ("9713272") or ("8659565") or ("20170052750") or ("10231349") or ("20180373326") or ("10483681") or ("20190069619") or ("10143080") or ("9450634") or ("20170326447") or ("7643272") or ("8612652") or ("20160178993") or ("20120218302") or ("8035481") or ("9507243") or ("10514757") or ("20090272862") or ("20080170838") or ("20160034175") or ("10466951") or ("20140177156") or ("8919583") or ("9619008") or ("20140053442") or ("20160291646") or ("20160085384") or ("20140123882") or ("10136689") or ("8199498") or ("20160349790") or ("9836083") or ("20170197558") or ("20170159876") or ("20170326448") or				

		("20170021775") or ("20170313467") or ("8917221") or ("8384518") or ("20100128374") or ("9152176") or ("9757649") or ("9257061") or ("20180129460") or ("20180091707") or ("9725028") or ("8937805") or ("6672551") or ("20160110273") or ("20120327061") or ("8565829") or ("20160048222") or ("8525925") or ("20080159712") or ("9964993") or ("7830650") or ("8959445") or ("20120081311") or ("10496193") or ("9808713") or ("7610782") or ("9830121") or ("8890768") or ("20100283270") or ("10345873") or ("10340970") or ("20170177034") or ("20150062802") or ("20190377245") or ("20160048363") or ("10055186") or ("9640118") or ("20100323237") or ("9441830") or ("20190328136") or ("7652879") or ("9262117") or ("20120084687") or ("10301060") or ("20110085287") or ("20180373292") or ("10530915") or ("9619979") or ("20120081318") or ("8884841")).PN. or (("20080074831") or ("9841824") or ("20160179350") or ("9592453") or ("20150296104") or ("20120081399") or ("20140012641") or ("20130076662") or ("20160106210") or ("20120081303") or ("10342340") or ("10474410") or ("20180117460") or ("20160054869") or ("20170205854") or ("10452105") or ("20090198853") or ("20190038983") or ("20130128110") or ("8348450") or ("20150159860") or ("20120081306") or ("9712728") or ("8043122") or ("20130076961") or ("9261924") or ("20080137277") or ("20150138724") or ("20060042330") or ("9845816") or ("20160062554") or ("9855498") or ("20170220444") or ("9606884") or ("9681028") or ("20110164410") or ("20100162515") or ("9910455") or ("10055325") or ("20120081269") or ("10306036") or ("20130076663") or ("20180337704") or ("20190118082") or ("20190372262") or ("9300344") or ("20140270687") or ("20130294740") or ("8773378") or ("20120081271") or ("20190339749") or ("20100165188") or ("20140002725") or ("10530914") or ("20080294830") or ("20160110150") or ("9603439") or ("8060977") or ("9785200") or ("9058153") or ("20160291639") or ("20120081312") or ("20130076963") or ("9164546") or ("10459493") or ("10495255") or ("20120081403") or ("9201626") or ("9019214") or ("20180059738") or ("9195335") or ("10159895") or ("9113129") or ("20150289629") or ("20150046858") or ("20080146075") or				

		("20160077548") or ("20120081398") or ("10133305") or ("9809049") or ("9092190") or ("20130310172") or ("9226579") or ("20170352303") or ("8527892") or ("20200021601") or ("10024490") or ("20160051900") or ("8634189") or ("20020125387") or ("10528312") or ("10338650") or ("7325343") or ("9195330") or ("20120084694") or ("8477238") or ("20060045755") or ("20130076681") or ("20120084726") or ("10398203") or ("20150106763") or ("10048827") or ("8870651") or ("20130076782") or ("20170134063") or ("20120018390") or ("20180356864") or ("20190052297") or ("20130145279")).PN.				
S370	884	(("10495254") or ("20190107245") or ("10296053") or ("10503215") or ("10254803") or ("10503207") or ("10296052") or ("8576562") or ("20120206873") or ("9983620") or ("20100197165") or ("7959459") or ("20190272020") or ("20090122019") or ("20110050388") or ("8988190") or ("9521477") or ("7876566") or ("10080073") or ("20160011754") or ("20170094383") or ("20180046214") or ("6383051") or ("20190004568") or ("20160299526") or ("6537123") or ("20160135619") or ("9713397") or ("20020061699") or ("10459485") or ("7940520") or ("20090231794") or ("20090115197") or ("7471511") or ("7815228") or ("20150098602") or ("8035961") or ("9983637") or ("20190011950") or ("6647652") or ("20190243420") or ("10303213") or ("20180321891") or ("20110080705") or ("6971197") or ("20050274682") or ("20040212610") or ("20180137789") or ("9497697") or ("8812748") or ("20130077236") or ("20080103637") or ("8144119") or ("20050236347") or ("7306096") or ("20160010673") or ("7219808") or ("20060091027") or ("20160306393") or ("20160025119") or ("20170300084") or ("20160003269") or ("20170235341") or ("9575707") or ("20200019368") or ("20100268860") or ("9851749") or ("20040014347") or ("10372164") or ("10289163") or ("6769927") or ("9926953") or ("6263602") or ("20190129558") or ("20150235337") or ("10132340") or ("6272779") or ("10452191") or ("20110192857") or ("20150185879") or ("9465455") or ("20130277529") or ("20160282899") or ("6941691") or ("20200021115") or ("20030126778") or ("20160374418") or ("20080268696") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:36

		("20070270016") or ("10149517") or ("20050236848") or ("7545629") or ("6850208") or ("9904501") or ("7686638") or ("20100290212") or ("7082035") or ("20090036219") or ("8274784") or ("20110286171") or ("7570486") or ("20190004764") or ("20130076597") or ("20060268509") or ("8052534") or ("10106292") or ("8432688") or ("20170341805") or ("20170208911") or ("9477269") or ("20180181361") or ("20080278269") or ("7262958") or ("20190280513") or ("20160085271") or ("20160037876") or ("20060012965") or ("20170034918") or ("20120120587") or ("20180054897") or ("7203067") or ("20150378391") or ("20130235282") or ("20170026498") or ("20160166060") or ("20190053584") or ("20120008277") or ("20180125178") or ("6659516") or ("8437133")).PN. or (("9654605") or ("20110055594") or ("9848494") or ("20170124603") or ("10201089") or ("9894964") or ("20190243600") or ("9717339") or ("20190115780") or ("20020089190") or ("20090100732") or ("6536147") or ("20070015120") or ("20180190162") or ("9082325") or ("20180180894") or ("20180020850") or ("10437070") or ("20140077515") or ("10123593") or ("20130083464") or ("20060196841") or ("20100024271") or ("20160189578") or ("10327572") or ("20170031434") or ("8939482") or ("20190147196") or ("10489613") or ("20180039348") or ("20190313815") or ("20070247825") or ("20170118851") or ("8016135") or ("10339840") or ("10225636") or ("20150089851") or ("10228783") or ("9706677") or ("7374052") or ("20130232835") or ("9872413") or ("20050247835") or ("9727896") or ("20160073545") or ("20050166076") or ("20150262240") or ("20170084208") or ("20070241254") or ("20200018975") or ("20150043151") or ("20130082955") or ("10514877") or ("9690385") or ("8275999") or ("20100188812") or ("8120904") or ("20110064401") or ("20090259963") or ("20140265765") or ("20150124996") or ("7210046") or ("9858835") or ("7583515") or ("20100187386") or ("9286024") or ("20050231898") or ("9229496") or ("20080142457") or ("9582235") or ("9449538") or ("10452096") or ("9611881") or ("9727134") or ("10184506") or ("20130077221") or ("20150116364") or ("10452135") or				

		("20160037870") or ("20160040698") or ("20160069371") or ("20180180895") or ("10217388") or ("9588550") or ("20190350094") or ("20160040695") or ("20130083470") or ("10365493") or ("20190260862") or ("7400516") or ("9013867") or ("7016187") or ("10228750") or ("20190037712") or ("20130083466") or ("20070291461") or ("9877549") or ("9524139") or ("9317243") or ("10115375") or ("20170171371") or ("8439698") or ("20180374264") or ("20020095840") or ("8878794") or ("10264857") or ("8355031") or ("7131546") or ("20180120922") or ("9116655") or ("20150062097") or ("20120320514") or ("20160062393") or ("20190107869") or ("10013228") or ("20170140739") or ("20190285948") or ("9606664") or ("8879250") or ("20170052751") or ("20190121399") or ("20080246771") or ("20130083468") or ("20190339787") or ("20090290076") or ("20150279328") or ("20190104635") or ("20150130725") or ("20100238196")).PN. or (("10116776") or ("10176784") or ("20190216178") or ("20160051902") or ("10509484") or ("10085523") or ("10345953") or ("20080007931") or ("9086836") or ("10251299") or ("20130083467") or ("20110026203") or ("20050098510") or ("20130241720") or ("20160116943") or ("9182935") or ("9229675") or ("20150116362") or ("7359003") or ("9645607") or ("20130082585") or ("20170220186") or ("20140092546") or ("20160205804") or ("7583517") or ("20160124465") or ("20090079304") or ("8934226") or ("9235237") or ("20200019367") or ("20190171023") or ("20160110207") or ("9176701") or ("20110096490") or ("9582057") or ("20060000788") or ("20130083558") or ("20190189062") or ("20080093535") or ("9798357") or ("20150262463") or ("9946505") or ("20180235093") or ("20160254837") or ("20130083469") or ("9741271") or ("9658670") or ("20170201119") or ("20160365184") or ("9964995") or ("20170319953") or ("8199482") or ("20160098064") or ("20180232191") or ("20110026228") or ("10051752") or ("7510092") or ("20160327987") or ("7423256") or ("10524369") or ("9772863") or ("9548785") or ("20180036635") or ("20090047824") or ("10256660") or ("9652954") or ("8773581") or ("9839842") or ("10013226") or ("20140151248") or ("20150116094") or ("20120267374") or ("10514769") or ("20180107341") or ("8907906") or ("20170105297") or ("10092830") or ("6643965") or				

		("9128582") or ("20170085283") or ("20130080931") or ("20130094142") or ("20180365875") or ("20160202734") or ("20160320808") or ("20020189145") or ("9131756") or ("9747475") or ("20150227245") or ("20090238395") or ("20110006181") or ("9477438") or ("10254795") or ("20160041757") or ("20170098435") or ("20180307456") or ("8404053") or ("8166684") or ("20100002366") or ("20170184861") or ("9877403") or ("20160249750") or ("8045339") or ("20120325695") or ("9495012") or ("10146494") or ("20160324335") or ("9900041") or ("10121455") or ("20160001928") or ("8139809") or ("10061346") or ("20190018458") or ("20110048988") or ("20130088447") or ("20160154434") or ("8801054") or ("20170255441") or ("20170257969") or ("10082839") or ("20180173488") or ("20170315626") or ("20080072655") or ("9785188") or ("20130258573") or ("20190139515") or ("20140047674") or ("10429904") or ("20130293581") or ("8302923")).PN. or (("9728110") or ("8267245") or ("20160048369") or ("20180107242") or ("10015897") or ("20170315586") or ("10503454") or ("20130076656") or ("20070138806") or ("20140028243") or ("9747067") or ("9998166") or ("7309045") or ("20130080932") or ("20180084092") or ("7775567") or ("20160266672") or ("20170115691") or ("20120226369") or ("9807903") or ("20130148272") or ("20190113986") or ("9864561") or ("9532659") or ("20080278408") or ("20060091257") or ("20160349800") or ("9946308") or ("9474021") or ("20180060012") or ("10288890") or ("10445044") or ("10480711") or ("20150186093") or ("20160048165") or ("9841786") or ("20170156464") or ("20130076591") or ("9511903") or ("20050010708") or ("20190208655") or ("20190387645") or ("20130076657") or ("9229494") or ("10222833") or ("20150288942") or ("20100281723") or ("10089054") or ("7895784") or ("20180210507") or ("9158494") or ("9811302") or ("20160048300") or ("8841556") or ("20180217382") or ("20120081846") or ("7085871") or ("9645649") or ("10459676") or ("20140184471") or ("20160005341") or ("10031557") or ("20070133156") or ("20150227178") or ("9189773") or ("9639320") or ("20160078591") or ("20080307482") or ("20160309865") or ("20160054880") or				

		("20180107440") or ("9524027") or ("8842057") or ("9734743") or ("20180360234") or ("9008856") or ("10271031") or ("20180249798") or ("20090205876") or ("20080172915") or ("9086835") or ("20140217862") or ("20120266098") or ("20130100001") or ("20130319796") or ("20170031641") or ("20040183313") or ("20160061549") or ("8990711") or ("9998706") or ("20130050265") or ("20140071117") or ("20070113454") or ("20130144463") or ("9259639") or ("7583500") or ("20130083477") or ("20030131513") or ("20120275104") or ("20060268505") or ("20190339769") or ("10429903") or ("9317076") or ("10120421") or ("20160102805") or ("20160085406") or ("20150365123") or ("20170039019") or ("8582306") or ("8848355") or ("20160066717") or ("20170305144") or ("20190033925") or ("20140049911") or ("20150227206") or ("20130080929") or ("20150366374") or ("20190149643") or ("20160062631") or ("9046925") or ("20130076654") or ("10318129") or ("8915361") or ("20190324509") or ("7260962") or ("20160275829") or ("20190253886") or ("20180297353")).PN. or (("20160109061") or ("20160291920") or ("20160208507") or ("9235828") or ("20140092108") or ("8836842") or ("20160203107") or ("10129376") or ("20190278387") or ("20130076655") or ("20190018459") or ("10324499") or ("20120240055") or ("20150153783") or ("9668593") or ("20100302380") or ("8988876") or ("20100066640") or ("9395818") or ("9869423") or ("20160283086") or ("10470540") or ("20150309392") or ("9733665") or ("20090266951") or ("20190042082") or ("10359148") or ("20160313964") or ("20120309462") or ("10393157") or ("20160277052") or ("20120111881") or ("20120113572") or ("20130313387") or ("20120240054") or ("20160110149") or ("20180094769") or ("20170198890") or ("20140320696") or ("20150027911") or ("20170273200") or ("10404842") or ("20050201047") or ("20070293085") or ("10001335") or ("20130076929") or ("20160246381") or ("10082838") or ("20160142675") or ("20120240056") or ("20190084343") or ("20150359325") or ("7126816") or ("9494980") or ("9351237") or ("8540088") or ("20190000166") or ("9189018") or ("9195119") or ("9766707") or ("20180095499") or				

		("20100138675") or ("20150305591") or ("10019035") or ("20120266082") or ("10029453") or ("20090268401") or ("10514831") or ("9588545") or ("20190278329") or ("20160148558") or ("20160054902") or ("20170220310") or ("7542052") or ("20120225694") or ("20170242456") or ("10395566") or ("9668371") or ("7570485") or ("20170035170") or ("20160048370") or ("20090194492") or ("10125921") or ("20060209522") or ("20020023853") or ("8994713") or ("20190064878") or ("20180180893") or ("20130076598") or ("8564672") or ("10156969") or ("20160044152") or ("20130080937") or ("20100200523") or ("9436217") or ("20160210769") or ("20120081319") or ("20040173477") or ("9885466") or ("20180231222") or ("9208477") or ("10534184") or ("9433337") or ("9993065") or ("20130245882") or ("20150201723") or ("20110255289") or ("20160062593") or ("20120218202") or ("9582035") or ("20120081310") or ("20160037625") or ("20120225693") or ("20170118852") or ("7085132") or ("20100192171") or ("20030205546") or ("20110051339") or ("9980402") or ("7257971") or ("20050111181") or ("20120220340") or ("9019397") or ("10037054") or ("9001103") or ("20160103597") or ("20120103855") or ("20020050548")).PN. or (("9110630") or ("10303215") or ("20120084682") or ("20160266606") or ("20120214552") or ("20190171405") or ("20170038934") or ("20160191101") or ("20150309535") or ("20180295264") or ("10010789") or ("20160210886") or ("10172400") or ("20190059481") or ("20130138945") or ("20120242702") or ("20120242703") or ("20140267457") or ("20120220341") or ("10237394") or ("7465189") or ("20040129587") or ("20100039372") or ("20100007646") or ("10429888") or ("20170010633") or ("7508657") or ("20180294831") or ("20170059087") or ("20190257506") or ("20130033477") or ("20150301393") or ("9910462") or ("20100020482") or ("8520837") or ("8386672") or ("9560751") or ("20190341030") or ("20170238412") or ("20160133203") or ("10208934") or ("7952863") or ("20160051901") or ("20170182410") or ("10419648") or ("9713272") or ("8659565") or ("20170052750") or ("10231349") or ("20180373326") or ("10483681") or ("20190069619") or ("10143080") or ("9450634") or				

		("20170326447") or ("7643272") or ("8612652") or ("20160178993") or ("20120218302") or ("8035481") or ("9507243") or ("10514757") or ("20090272862") or ("20080170838") or ("20160034175") or ("10466951") or ("20140177156") or ("8919583") or ("9619008") or ("20140053442") or ("20160291646") or ("20160085384") or ("20140123882") or ("10136689") or ("8199498") or ("20160349790") or ("9836083") or ("20170197558") or ("20170159876") or ("20170326448") or ("20170021775") or ("20170313467") or ("8917221") or ("8384518") or ("20100128374") or ("9152176") or ("9757649") or ("9257061") or ("20180129460") or ("20180091707") or ("9725028") or ("8937805") or ("6672551") or ("20160110273") or ("20120327061") or ("8565829") or ("20160048222") or ("8525925") or ("20080159712") or ("9964993") or ("7830650") or ("8959445") or ("20120081311") or ("10496193") or ("9808713") or ("7610782") or ("9830121") or ("8890768") or ("20100283270") or ("10345873") or ("10340970") or ("20170177034") or ("20150062802") or ("20190377245") or ("20160048363") or ("10055186") or ("9640118") or ("20100323237") or ("9441830") or ("20190328136") or ("7652879") or ("9262117") or ("20120084687") or ("10301060") or ("20110085287") or ("20180373292") or ("10530915") or ("9619979") or ("20120081318") or ("8884841")).PN. or (("20080074831") or ("9841824") or ("20160179350") or ("9592453") or ("20150296104") or ("20120081399") or ("20140012641") or ("20130076662") or ("20160106210") or ("20120081303") or ("10342340") or ("10474410") or ("20180117460") or ("20160054869") or ("20170205854") or ("10452105") or ("20090198853") or ("20190038983") or ("20130128110") or ("8348450") or ("20150159860") or ("20120081306") or ("9712728") or ("8043122") or ("20130076961") or ("9261924") or ("20080137277") or ("20150138724") or ("20060042330") or ("9845816") or ("20160062554") or ("9855498") or ("20170220444") or ("9606884") or ("9681028") or ("20110164410") or ("20100162515") or ("9910455") or ("10055325") or ("20120081269") or ("10306036") or ("20130076663") or ("20180337704") or ("20190118082") or ("20190372262") or ("9300344") or ("20140270687") or ("20130294740") or ("8773378") or ("20120081271") or				

		("20190339749") or ("20100165188") or ("20140002725") or ("10530914") or ("20080294830") or ("20160110150") or ("9603439") or ("8060977") or ("9785200") or ("9058153") or ("20160291639") or ("20120081312") or ("20130076963") or ("9164546") or ("10459493") or ("10495255") or ("20120081403") or ("9201626") or ("9019214") or ("20180059738") or ("9195335") or ("10159895") or ("9113129") or ("20150289629") or ("20150046858") or ("20080146075") or ("20160077548") or ("20120081398") or ("10133305") or ("9809049") or ("9092190") or ("20130310172") or ("9226579") or ("20170352303") or ("8527892") or ("20200021601") or ("10024490") or ("20160051900") or ("8634189") or ("20020125387") or ("10528312") or ("10338650") or ("7325343") or ("9195330") or ("20120084694") or ("8477238") or ("20060045755") or ("20130076681") or ("20120084726") or ("10398203") or ("20150106763") or ("10048827") or ("8870651") or ("20130076782") or ("20170134063") or ("20120018390") or ("20180356864") or ("20190052297") or ("20130145279")).PN.				
S371	2	"20110216485"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:39
S372	2	"20100039764"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:39
S373	2	"20080062625"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:39
S374	6	S371 S372 S373	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:39
S375	14	("20170325343" | "20180077808" | "9823697" | "20150153777" | "20100246113" | "20110132557" | "20170103735" | "7310050" | "20180259451" | "20100177020" | "20180160554" | "20120002357" | "20100177020" | "20180160554" | "20180070467" | "20180114471").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:54

S376	7	S375 and sensor	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:54
S377	9	S375 and angle	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:54
S378	11	S376 S377	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:54
S379	5	S375 and detect$3	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:55
S380	12	S378 S379	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:55
S381	3	S380 and magnetic$4	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 14:01
S382	6	S380 and gear$4	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 14:01
S383	8	S381 S382	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 14:01
S384	9,125	g06f1/1652,1633,1637.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 14:19
S385	930	G09F11/08,02,04,10.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 14:19
S386	14,405	361/679.01,679.02,679.21-679.3,679.55,679.56.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 14:20
S387	5,977	349/56-60.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 14:20

S388	68	((("KIM") near3 ("Hoyoung")) OR (("KIM") near3 ("Kyeongdong")) OR (("KIM") near3 ("Byunghee"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/01/21 14:21
S389	8	S375 and gear$4	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 14:22
S390	2	S389 NOT S382	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 14:22
S391	15	(("20190371214") or ("10534402") or ("10410549") or ("20160374228") or ("9756757") or ("20190029131") or ("10506726") or ("20180160554") or ("20170013726") or ("10111344") or ("20190098774") or ("10531582") or ("20180070466") or ("20190174644") or ("10201103")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 14:25
S392	1	("20150138723").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/29 11:03
S393	1	"20170068276"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/31 13:04
S394	12	("20050139740" | "20110096513" | "20130031289" | "20130242490" | "20140043743" | "20160179142" | "20160357224" | "20170068276" | "8937803" | "9013863" | "9072174" | "9600034").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/31 13:04
S395	9	(("20200029462") or ("20100294385") or ("20110128703") or ("8747056") or ("9718180") or ("20140338948") or ("6058725") or ("6434968") or ("20010025506")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 01:53
S396	8	S395 and valv$3	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 01:55
S397	8	S396 and pressur$3	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 01:56

S398	1	S395 not S396	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 02:00
S399	8	S397 and inlet$1	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 02:12
S400	3	(("20030224717") or ("20160165750") or ("4742864")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 02:21
S401	2	(("20060073783") or ("20170339803")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 02:22
S402	5	S400 S401	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 02:22
S403	27	("4742864").URPN.	USPAT	OR	OFF	2020/02/03 02:32
S404	36	("2859270" | "3407869" | "4027206" | "4142091" | "4237521" | "4616693" | "4628992").PN. OR ("4742864").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 02:32
S405	13	S404 and pressur$3	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 02:35
S406	41	("3194307" | "3422888" | "4233644" | "4417295" | "4628992" | "4672509" | "4674004" | "4742864" | "4896716" | "4953634" | "5029236" | "5195576" | "5294831" | "5313362" | "5370178" | "5493457" | "5597035" | "5646822" | "5676198" | "5691883" | "5765743" | "5894987" | "6397927" | "6397930" | "6435267" | "6474409" | "6914782").PN. OR ("7028753").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 02:36
S407	25	S406 and pressur$3	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 02:36
S408	6	S407 and valv$3	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 02:37

S409	35	("20050076661" | "20070277538" | "20080087039" | "2333309" | "2628482" | "2963879" | "4014179" | "4399665" | "4437320" | "4840036" | "4966005" | "4969509" | "5112010" | "5137230" | "5369960" | "5491979" | "5513500" | "5899085" | "5939800" | "6124646" | "6394760" | "6401473" | "6571574" | "6845627" | "6880351" | "6886782" | "7024874" | "7028753" | "7059148" | "7121100").PN. OR ("9555892").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 02:38
S410	28	S409 and pressur$3	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 02:38
S411	28	S410 and valv$3	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 02:38
S412	19	S411 and inlet$1	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 02:38
S413	816	(("20130256478") or ("20130105662") or ("9791097") or ("20160312950") or ("20190281976") or ("20130048802") or ("9317076") or ("20150227178") or ("9229494") or ("20120300378") or ("20140028243") or ("8995126") or ("9276626") or ("9383777") or ("20150171913") or ("20140233167") or ("20130334072") or ("8531834") or ("4913390") or ("20160099741") or ("9900041") or ("8915361") or ("20130027862") or ("9559741") or ("9615476") or ("20140217862") or ("20170085283") or ("20130294020") or ("9450634") or ("20160191101") or ("9660684") or ("9548785") or ("20120314354") or ("20130342087") or ("20160254837") or ("10396843") or ("10090877") or ("20180337704") or ("20170237460") or ("20130140837") or ("9427071") or ("20150201723") or ("20170035170") or ("20100090489") or ("20140049060") or ("9300344") or ("8136217") or ("20170068270") or ("5828547") or ("9894192") or ("7886903") or ("20140076748") or ("20160072933") or ("20190343274") or ("9580209") or ("6217351") or ("20050269225") or ("20130213825") or ("9980561") or ("6355885") or ("7009111") or ("6904001") or ("20190376668") or ("6608253") or ("9128284") or ("8616422") or ("20140202493") or ("20140077054") or ("20130334070") or ("8596599") or ("7273983") or ("20130032617") or ("5857568") or ("9551459") or ("9032576") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 03:25

		("8003886") or ("9344539") or ("20160334084") or ("6028765") or ("20150245703") or ("20140139999") or ("20030038045") or ("20160230968") or ("20130021743") or ("10207651") or ("20160297375") or ("6749061") or ("10429040") or ("20050050694") or ("20090101784") or ("6504710") or ("8456836") or ("7748667") or ("9069527") or ("9991640") or ("5416479") or ("20140029185") or ("20120260698") or ("9399432") or ("20100090488") or ("20110061885") or ("20130026897") or ("20180277995") or ("20130113346") or ("20140252818") or ("20150295362") or ("20120201000") or ("20020078291") or ("7686270") or ("9846452") or ("20140233108") or ("20140331417") or ("8453983") or ("9867439") or ("9562644") or ("20160010788") or ("20190376320") or ("20130014330") or ("9296340") or ("7914059") or ("10455955") or ("20130193174") or ("20190393689") or ("8797721") or ("20160062398") or ("9635907") or ("10368457") or ("8551283") or ("20170055661") or ("7874539") or ("9360892") or ("8727290")).PN. or (("9326623") or ("20120307448") or ("20070075206") or ("20140075743") or ("20170196112") or ("9606579") or ("20160033997") or ("20180092471") or ("20110186345") or ("20010002691") or ("20170172267") or ("8784939") or ("8711553") or ("9185816") or ("20140060878") or ("9274568") or ("20190297741") or ("6318687") or ("8724312") or ("20110188180") or ("8587939") or ("7878476") or ("20100090490") or ("20120194998") or ("5913466") or ("20110170252") or ("8223488") or ("5253142") or ("9372513") or ("20190350326") or ("20150043141") or ("20160192774") or ("9728947") or ("20190118778") or ("20120275100") or ("20110170257") or ("9278648") or ("10076050") or ("20130328462") or ("20120327579") or ("20020179781") or ("20140166706") or ("20130200119") or ("6101087") or ("20020011544") or ("20190216227") or ("9414686") or ("10474193") or ("6426872") or ("6863252") or ("8157310") or ("20190384143") or ("9496665") or ("9121546") or ("20160242564") or ("20160205800") or ("9232670") or ("20020017119") or ("9710017") or ("9527456") or ("20010013234") or ("RE44727") or ("20090249705") or ("20130017330") or ("20150140868") or ("20050150263") or ("9577694") or ("20180312118") or ("20170308123") or ("6749158") or				

		("20150329062") or ("9680317") or ("9924805") or ("20130193909") or ("20160276852") or ("20020076512") or ("10009449") or ("20180292666") or ("20150047493") or ("20110187245") or ("20180271301") or ("10136737") or ("10442371") or ("8568829") or ("10198090") or ("20180116430") or ("20060238967") or ("5723821") or ("10349760") or ("6131347") or ("20140224953") or ("9605792") or ("6397533") or ("20180101196") or ("20120212896") or ("7608780") or ("9297495") or ("20090205864") or ("20170341463") or ("20160054537") or ("20170097698") or ("20070170230") or ("5971506") or ("20140263939") or ("8959845") or ("10232665") or ("6364265") or ("20160030696") or ("9644783") or ("20040206138") or ("20100090075") or ("20120127651") or ("20170152990") or ("20130165012") or ("20120194991") or ("8894445") or ("20080197248") or ("20130244496") or ("20100270052") or ("20060248803") or ("6903924") or ("20010015567") or ("5189259") or ("5435737") or ("20150103245") or ("6115977") or ("8905792") or ("20130148289") or ("9056696") or ("20170239588")).PN. or (("20070099681") or ("8104411") or ("6400561") or ("20180263136") or ("20150335139") or ("20020089820") or ("10443274") or ("5618141") or ("20120018605") or ("9004432") or ("20170310096") or ("20130260615") or ("9864403") or ("20030101778") or ("20170281390") or ("8025016") or ("8649169") or ("9414685") or ("9261912") or ("20130026324") or ("8338703") or ("20100090487") or ("20110128689") or ("9060609") or ("5934454") or ("4964017") or ("20110267774") or ("20080283148") or ("6158699") or ("9669324") or ("6553794") or ("10117353") or ("7143614") or ("9979172") or ("20070056337") or ("20050150262") or ("20110292666") or ("6497391") or ("20180358824") or ("9044087") or ("8098488") or ("20130140965") or ("7201029") or ("20120322301") or ("20060288745") or ("6644748") or ("20150111626") or ("20170108703") or ("9206626") or ("8814128") or ("8717758") or ("10312700") or ("20140182876") or ("20150121772") or ("8602817") or ("9375073") or ("7121125") or ("7100404") or ("RE43869") or ("20080035029") or ("20150052957") or ("6400562") or ("20160076276") or ("20170339800") or ("10125523") or ("20070220931") or ("20040026582") or				

		("9562375") or ("9874903") or ("8837144") or ("20090213536") or ("8437132") or ("6481683") or ("20020167205") or ("20120104185") or ("10420407") or ("10004476") or ("20140093303") or ("9078350") or ("20120272693") or ("20180360208") or ("20190078355") or ("7111479") or ("9310841") or ("10478580") or ("20140238091") or ("20190039574") or ("6702372") or ("8929065") or ("20140367136") or ("20080151488") or ("10058155") or ("10070707") or ("6089520") or ("10120199") or ("7978466") or ("4356712") or ("8955905") or ("7744172") or ("7100403") or ("6000252") or ("5502989") or ("20170145719") or ("8453981") or ("20070099680") or ("20190029380") or ("9074722") or ("5493878") or ("6735990") or ("20110297050") or ("20150301562") or ("7827920") or ("5764474") or ("20170099922") or ("20090244862") or ("8459191") or ("20110084182") or ("9498034") or ("9700114") or ("20140361584") or ("6000251") or ("20070278361") or ("9185953") or ("6155088") or ("6588241") or ("20140168885") or ("6810295") or ("9575516") or ("20190025881") or ("8763795") or ("6612665") or ("20150357751") or ("6112562") or ("6446285") or ("5755420")).PN. or (("4544323") or ("20090049791") or ("20180231228") or ("8472186") or ("8281542") or ("9146584") or ("20130178161") or ("20020011193") or ("20130040470") or ("7891719") or ("5924807") or ("20130043290") or ("20170065044") or ("20160058145") or ("20030000429") or ("20140360893") or ("20170303654") or ("20140210237") or ("20090107083") or ("9065205") or ("9660376") or ("20150003907") or ("20110102994") or ("20100299876") or ("8472177") or ("9472888") or ("20190289740") or ("20150380862") or ("20050185370") or ("7864518") or ("20140001324") or ("6385036") or ("20120085356") or ("20020141148") or ("20020151226") or ("20020101709") or ("20140246354") or ("6736073") or ("9055796") or ("5651456") or ("9723113") or ("8254097") or ("8467179") or ("8467178") or ("20150277509") or ("20140202890") or ("10178903") or ("9141136") or ("7184261") or ("8467185") or ("20150182197") or ("20120106078") or ("7322653") or ("20120106062") or ("9904333") or ("20120106059") or ("8467183") or ("20180013271") or ("5743503") or ("6158829") or ("20050279905") or ("6628516") or ("20060045495") or ("20110267757") or ("7787245") or ("20180325229") or ("5913907") or				

		("6574096") or ("20070223186") or ("20180084903") or ("20120106061") or ("20120106060") or ("8800569") or ("20040126197") or ("20130285522") or ("9462093") or ("6266236") or ("9383774") or ("20170156497") or ("10093377") or ("20040254020") or ("20060278504") or ("10067537") or ("20130178155") or ("9167906") or ("8708151") or ("20080100106") or ("20140225402") or ("9431190") or ("20180099714") or ("8891230") or ("9774713") or ("20090266954") or ("20160176356") or ("7530541") or ("9902335") or ("20050269477") or ("20140166832") or ("20190100267") or ("20130068706") or ("20150237750") or ("7823973") or ("8995125") or ("20060278794") or ("6967836") or ("20180140427") or ("10112670") or ("20150105127") or ("20090288543") or ("5944210") or ("8950593") or ("6540350") or ("20150111623") or ("20170360223") or ("20160204588") or ("20110309212") or ("6644605") or ("20170017268") or ("20140312086") or ("20130181584") or ("6714188") or ("7900489") or ("9049785") or ("7226027") or ("20140043744") or ("9188275") or ("10474189") or ("9991922") or ("9328865") or ("7348504") or ("6417842") or ("6267607")).PN. or (("20180013272") or ("20090025436") or ("20090212184") or ("20190064877") or ("20110112399") or ("8250830") or ("20170237843") or ("20020135732") or ("8934226") or ("9655434") or ("20050185373") or ("20140111933") or ("20190133280") or ("6926477") or ("20160297491") or ("20110267773") or ("20190308493") or ("10477968") or ("20190372614") or ("20090161062") or ("20130301216") or ("9711957") or ("6883694") or ("20030075578") or ("6439134") or ("20180092440") or ("9592871") or ("20020125798") or ("20150169007") or ("9588550") or ("5813873") or ("20170331237") or ("20170183052") or ("10396514") or ("10159336") or ("20090064627") or ("6070269") or ("20120119040") or ("20120049027") or ("10457127") or ("20120273630") or ("10104957") or ("20160352380") or ("20190269241") or ("7896573") or ("8072767") or ("9743757") or ("6543832") or ("20200000611") or ("8601617") or ("7625082") or ("10328776") or ("20140168877") or ("7261270") or ("5451168") or ("20120145835") or ("20190248299") or ("7365971") or ("20160235190") or ("20070201201") or ("10250783") or ("20040150628") or ("5787533") or				

		("20100091442") or ("20180192777") or ("5295089") or ("20100051769") or ("8888058") or ("7485820") or ("10352496") or ("9962003") or ("20130216067") or ("20190160651") or ("5000602") or ("8867202") or ("20200033912") or ("20120229882") or ("9058727") or ("20150208799") or ("10372161") or ("20170332778") or ("9807211") or ("20020120365") or ("9307131") or ("6532152") or ("9267641") or ("9056584") or ("20190230259") or ("20070002530") or ("20140092531") or ("8687359") or ("20120229009") or ("7614149") or ("20050152106") or ("20120030930") or ("5673982") or ("7707718") or ("20120241567") or ("20170019512") or ("20190323651") or ("10375844") or ("10390974") or ("20060260102") or ("20140197048") or ("20020017066") or ("6016248") or ("20140008513") or ("20100155099") or ("20180340646") or ("20110138739") or ("9424721") or ("20160169491") or ("20140085814") or ("20080078903") or ("6301101") or ("20080230266") or ("7611117") or ("5802988") or ("4180955") or ("8425286") or ("8702055") or ("9277825") or ("9589428") or ("10152081") or ("10187106") or ("20060260044") or ("20170344066") or ("9581286") or ("20070242426") or ("20150366356") or ("7242576")).PN. or (("20130147326") or ("20100130070") or ("20130229764") or ("20180013934") or ("20150329054") or ("9295778") or ("20110240830") or ("6856506") or ("7169141") or ("20200004113") or ("5805075") or ("20140191523") or ("20170261830") or ("9881290") or ("5392913") or ("20020144833") or ("20140077542") or ("20100221958") or ("20160132852") or ("9179777") or ("20010054861") or ("20130279110") or ("20180093608") or ("20050199672") or ("9257018") or ("20160144779") or ("20060268506") or ("20150220114") or ("6149001") or ("9207724") or ("9701248") or ("20160195899") or ("10191348") or ("20090098837") or ("20180257255") or ("7947903") or ("20130036949") or ("7789875") or ("20190024683") or ("7461483") or ("20130278122") or ("20100220434") or ("8345410") or ("5101736") or ("20090044736") or ("9840195") or ("20030191467") or ("9901713") or ("20020142650") or ("9173491") or ("20140110276") or ("5993227") or ("9563239") or ("7347484") or ("6279861") or ("20160202734") or ("20160320808") or ("20110138557") or				

		("20050026493") or ("5680721") or ("9993054") or ("20090009936") or ("6005209") or ("6557310") or ("7930006") or ("10245374") or ("9345328") or ("8733857") or ("9916570") or ("20170353209") or ("9643629") or ("7509891") or ("20170151972") or ("9145158") or ("20110180297") or ("20150305505") or ("9489020") or ("20180323559") or ("10089615") or ("7041103") or ("7650230") or ("20060044262") or ("10345672") or ("7736196") or ("20190305571") or ("20140376999") or ("6520607") or ("20160003270") or ("9486935") or ("20080226389") or ("20170161708") or ("8458847") or ("10245754") or ("7938689") or ("20150164227") or ("20150328020") or ("9631767") or ("9568947") or ("20110166947") or ("20170068143") or ("9882305") or ("20170354220") or ("10463120") or ("9189017") or ("20160358147") or ("8655422") or ("20140077571") or ("6545214") or ("20170221035") or ("10071683") or ("20150108317") or ("9451826") or ("20130284684") or ("6709039") or ("20130282501") or ("20060124133") or ("20120257341") or ("20110166690") or ("20160046309") or ("6115931") or ("6452793") or ("8896991") or ("9742458") or ("5337464") or ("9351552") or ("9466228") or ("10043495") or ("20060167453") or ("20170367503") or ("20100103602") or ("20080023508") or ("20160367029")).PN. or (("20120311941") or ("20150192953") or ("20080251680") or ("9010597") or ("20120327588") or ("7933123") or ("10490961") or ("8519326") or ("20060035767") or ("20110297578") or ("20160018847") or ("20080111032") or ("20190277441") or ("20030122457") or ("8138469") or ("20120256071") or ("8827234") or ("7206618") or ("20110043990") or ("20160294433") or ("5605311") or ("20090257207") or ("20170086535") or ("7875030")).PN.				
S414	98	S413 and (face near plate)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 03:29
S415	9	S414 and tablet$1	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 03:29

S416	2	S415 and magnet$4	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 03:35
S417	1	"20130342087"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 03:49
S418	16	("D488139" | "D346286" | "D393853" | "D652045" | "20090009945" | "D480731" | "D587256" | "D597975" | "D455131" | "D597764" | "20070138356" | "D661291" | "6328270" | "D460055" | "D535106" | "20090166482").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 03:49
S419	18	("D488139" | "D346286" | "D393853" | "D652045" | "20090009945" | "D480731" | "D587256" | "D597975" | "D455131" | "D597764" | "20070138356" | "D661291" | "20120193496" | "6328270" | "7946067" | "D460055" | "D535106" | "20030221876").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 03:50
S420	19	S418 S419	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 03:50
S421	418	S413 and tablet$1	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 03:59
S422	237	S421 and magnet$4	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 04:00
S423	209	S422 and mount$3	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 04:02
S425	816	(("20130256478") or ("20130105662") or ("9791097") or ("20160312950") or ("20190281976") or ("20130048802") or ("9317076") or ("20150227178") or ("9229494") or ("20120300378") or ("20140028243") or ("8995126") or ("9276626") or ("9383777") or ("20150171913") or ("20140233167") or ("20130334072") or ("8531834") or ("4913390") or ("20160099741") or ("9900041") or ("8915361") or ("20130027862") or ("9559741") or ("9615476") or ("20140217862") or ("20170085283") or ("20130294020") or ("9450634") or ("20160191101") or ("9660684") or ("9548785") or ("20120314354") or ("20130342087") or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/03 04:17

		("20160254837") or ("10396843") or ("10090877") or ("20180337704") or ("20170237460") or ("20130140837") or ("9427071") or ("20150201723") or ("20170035170") or ("20100090489") or ("20140049060") or ("9300344") or ("8136217") or ("20170068270") or ("5828547") or ("9894192") or ("7886903") or ("20140076748") or ("20160072933") or ("20190343274") or ("9580209") or ("6217351") or ("20050269225") or ("20130213825") or ("9980561") or ("6355885") or ("7009111") or ("6904001") or ("20190376668") or ("6608253") or ("9128284") or ("8616422") or ("20140202493") or ("20140077054") or ("20130334070") or ("8596599") or ("7273983") or ("20130032617") or ("5857568") or ("9551459") or ("9032576") or ("8003886") or ("9344539") or ("20160334084") or ("6028765") or ("20150245703") or ("20140139999") or ("20030038045") or ("20160230968") or ("20130021743") or ("10207651") or ("20160297375") or ("6749061") or ("10429040") or ("20050050694") or ("20090101784") or ("6504710") or ("8456836") or ("7748667") or ("9069527") or ("9991640") or ("5416479") or ("20140029185") or ("20120260698") or ("9399432") or ("20100090488") or ("20110061885") or ("20130026897") or ("20180277995") or ("20130113346") or ("20140252818") or ("20150295362") or ("20120201000") or ("20020078291") or ("7686270") or ("9846452") or ("20140233108") or ("20140331417") or ("8453983") or ("9867439") or ("9562644") or ("20160010788") or ("20190376320") or ("20130014330") or ("9296340") or ("7914059") or ("10455955") or ("20130193174") or ("20190393689") or ("8797721") or ("20160062398") or ("9635907") or ("10368457") or ("8551283") or ("20170055661") or ("7874539") or ("9360892") or ("8727290")).PN. or (("9326623") or ("20120307448") or ("20070075206") or ("20140075743") or ("20170196112") or ("9606579") or ("20160033997") or ("20180092471") or ("20110186345") or ("20010002691") or ("20170172267") or ("8784939") or ("8711553") or ("9185816") or ("20140060878") or ("9274568") or ("20190297741") or ("6318687") or ("8724312") or ("20110188180") or ("8587939") or ("7878476") or ("20100090490") or ("20120194998") or ("5913466") or ("20110170252") or ("8223488") or ("5253142") or ("9372513") or ("20190350326") or ("20150043141") or ("20160192774") or				

		("9728947") or ("20190118778") or ("20120275100") or ("20110170257") or ("9278648") or ("10076050") or ("20130328462") or ("20120327579") or ("20020179781") or ("20140166706") or ("20130200119") or ("6101087") or ("20020011544") or ("20190216227") or ("9414686") or ("10474193") or ("6426872") or ("6863252") or ("8157310") or ("20190384143") or ("9496665") or ("9121546") or ("20160242564") or ("20160205800") or ("9232670") or ("20020017119") or ("9710017") or ("9527456") or ("20010013234") or ("RE44727") or ("20090249705") or ("20130017330") or ("20150140868") or ("20050150263") or ("9577694") or ("20180312118") or ("20170308123") or ("6749158") or ("20150329062") or ("9680317") or ("9924805") or ("20130193909") or ("20160276852") or ("20020076512") or ("10009449") or ("20180292666") or ("20150047493") or ("20110187245") or ("20180271301") or ("10136737") or ("10442371") or ("8568829") or ("10198090") or ("20180116430") or ("20060238967") or ("5723821") or ("10349760") or ("6131347") or ("20140224953") or ("9605792") or ("6397533") or ("20180101196") or ("20120212896") or ("7608780") or ("9297495") or ("20090205864") or ("20170341463") or ("20160054537") or ("20170097698") or ("20070170230") or ("5971506") or ("20140263939") or ("8959845") or ("10232665") or ("6364265") or ("20160030696") or ("9644783") or ("20040206138") or ("20100090075") or ("20120127651") or ("20170152990") or ("20130165012") or ("20120194991") or ("8894445") or ("20080197248") or ("20130244496") or ("20100270052") or ("20060248803") or ("6903924") or ("20010015567") or ("5189259") or ("5435737") or ("20150103245") or ("6115977") or ("8905792") or ("20130148289") or ("9056696") or ("20170239588")).PN. or (("20070099681") or ("8104411") or ("6400561") or ("20180263136") or ("20150335139") or ("20020089820") or ("10443274") or ("5618141") or ("20120018605") or ("9004432") or ("20170310096") or ("20130260615") or ("9864403") or ("20030101778") or ("20170281390") or ("8025016") or ("8649169") or ("9414685") or ("9261912") or ("20130026324") or ("8338703") or ("20100090487") or ("20110128689") or ("9060609") or ("5934454") or ("4964017") or ("20110267774") or ("20080283148") or				

		("6158699") or ("9669324") or ("6553794") or ("10117353") or ("7143614") or ("9979172") or ("20070056337") or ("20050150262") or ("20110292666") or ("6497391") or ("20180358824") or ("9044087") or ("8098488") or ("20130140965") or ("7201029") or ("20120322301") or ("20060288745") or ("6644748") or ("20150111626") or ("20170108703") or ("9206626") or ("8814128") or ("8717758") or ("10312700") or ("20140182876") or ("20150121772") or ("8602817") or ("9375073") or ("7121125") or ("7100404") or ("RE43869") or ("20080035029") or ("20150052957") or ("6400562") or ("20160076276") or ("20170339800") or ("10125523") or ("20070220931") or ("20040026582") or ("9562375") or ("9874903") or ("8837144") or ("20090213536") or ("8437132") or ("6481683") or ("20020167205") or ("20120104185") or ("10420407") or ("10004476") or ("20140093303") or ("9078350") or ("20120272693") or ("20180360208") or ("20190078355") or ("7111479") or ("9310841") or ("10478580") or ("20140238091") or ("20190039574") or ("6702372") or ("8929065") or ("20140367136") or ("20080151488") or ("10058155") or ("10070707") or ("6089520") or ("10120199") or ("7978466") or ("4356712") or ("8955905") or ("7744172") or ("7100403") or ("6000252") or ("5502989") or ("20170145719") or ("8453981") or ("20070099680") or ("20190029380") or ("9074722") or ("5493878") or ("6735990") or ("20110297050") or ("20150301562") or ("7827920") or ("5764474") or ("20170099922") or ("20090244862") or ("8459191") or ("20110084182") or ("9498034") or ("9700114") or ("20140361584") or ("6000251") or ("20070278361") or ("9185953") or ("6155088") or ("6588241") or ("20140168885") or ("6810295") or ("9575516") or ("20190025881") or ("8763795") or ("6612665") or ("20150357751") or ("6112562") or ("6446285") or ("5755420")).PN. or (("4544323") or ("20090049791") or ("20180231228") or ("8472186") or ("8281542") or ("9146584") or ("20130178161") or ("20020011193") or ("20130040470") or ("7891719") or ("5924807") or ("20130043290") or ("20170065044") or ("20160058145") or ("20030000429") or ("20140360893") or ("20170303654") or ("20140210237") or ("20090107083") or ("9065205") or ("9660376") or ("20150003907") or ("20110102994") or ("20100299876") or ("8472177") or ("9472888") or ("20190289740") or				

		("20150380862") or ("20050185370") or ("7864518") or ("20140001324") or ("6385036") or ("20120085356") or ("20020141148") or ("20020151226") or ("20020101709") or ("20140246354") or ("6736073") or ("9055796") or ("5651456") or ("9723113") or ("8254097") or ("8467179") or ("8467178") or ("20150277509") or ("20140202890") or ("10178903") or ("9141136") or ("7184261") or ("8467185") or ("20150182197") or ("20120106078") or ("7322653") or ("20120106062") or ("9904333") or ("20120106059") or ("8467183") or ("20180013271") or ("5743503") or ("6158829") or ("20050279905") or ("6628516") or ("20060045495") or ("20110267757") or ("7787245") or ("20180325229") or ("5913907") or ("6574096") or ("20070223186") or ("20180084903") or ("20120106061") or ("20120106060") or ("8800569") or ("20040126197") or ("20130285522") or ("9462093") or ("6266236") or ("9383774") or ("20170156497") or ("10093377") or ("20040254020") or ("20060278504") or ("10067537") or ("20130178155") or ("9167906") or ("8708151") or ("20080100106") or ("20140225402") or ("9431190") or ("20180099714") or ("8891230") or ("9774713") or ("20090266954") or ("20160176356") or ("7530541") or ("9902335") or ("20050269477") or ("20140166832") or ("20190100267") or ("20130068706") or ("20150237750") or ("7823973") or ("8995125") or ("20060278794") or ("6967836") or ("20180140427") or ("10112670") or ("20150105127") or ("20090288543") or ("5944210") or ("8950593") or ("6540350") or ("20150111623") or ("20170360223") or ("20160204588") or ("20110309212") or ("6644605") or ("20170017268") or ("20140312086") or ("20130181584") or ("6714188") or ("7900489") or ("9049785") or ("7226027") or ("20140043744") or ("9188275") or ("10474189") or ("9991922") or ("9328865") or ("7348504") or ("6417842") or ("6267607")).PN. or (("20180013272") or ("20090025436") or ("20090212184") or ("20190064877") or ("20110112399") or ("8250830") or ("20170237843") or ("20020135732") or ("8934226") or ("9655434") or ("20050185373") or ("20140111933") or ("20190133280") or ("6926477") or ("20160297491") or ("20110267773") or ("20190308493") or ("10477968") or ("20190372614") or ("20090161062") or ("20130301216") or				

		("9711957") or ("6883694") or ("20030075578") or ("6439134") or ("20180092440") or ("9592871") or ("20020125798") or ("20150169007") or ("9588550") or ("5813873") or ("20170331237") or ("20170183052") or ("10396514") or ("10159336") or ("20090064627") or ("6070269") or ("20120119040") or ("20120049027") or ("10457127") or ("20120273630") or ("10104957") or ("20160352380") or ("20190269241") or ("7896573") or ("8072767") or ("9743757") or ("6543832") or ("20200000611") or ("8601617") or ("7625082") or ("10328776") or ("20140168877") or ("7261270") or ("5451168") or ("20120145835") or ("20190248299") or ("7365971") or ("20160235190") or ("20070201201") or ("10250783") or ("20040150628") or ("5787533") or ("20100091442") or ("20180192777") or ("5295089") or ("20100051769") or ("8888058") or ("7485820") or ("10352496") or ("9962003") or ("20130216067") or ("20190160651") or ("5000602") or ("8867202") or ("20200033912") or ("20120229882") or ("9058727") or ("20150208799") or ("10372161") or ("20170332778") or ("9807211") or ("20020120365") or ("9307131") or ("6532152") or ("9267641") or ("9056584") or ("20190230259") or ("20070002530") or ("20140092531") or ("8687359") or ("20120229009") or ("7614149") or ("20050152106") or ("20120030930") or ("5673982") or ("7707718") or ("20120241567") or ("20170019512") or ("20190323651") or ("10375844") or ("10390974") or ("20060260102") or ("20140197048") or ("20020017066") or ("6016248") or ("20140008513") or ("20100155099") or ("20180340646") or ("20110138739") or ("9424721") or ("20160169491") or ("20140085814") or ("20080078903") or ("6301101") or ("20080230266") or ("7611117") or ("5802988") or ("4180955") or ("8425286") or ("8702055") or ("9277825") or ("9589428") or ("10152081") or ("10187106") or ("20060260044") or ("20170344066") or ("9581286") or ("20070242426") or ("20150366356") or ("7242576")).PN. or (("20130147326") or ("20100130070") or ("20130229764") or ("20180013934") or ("20150329054") or ("9295778") or ("20110240830") or ("6856506") or ("7169141") or ("20200004113") or ("5805075") or ("20140191523") or ("20170261830") or ("9881290") or ("5392913") or ("20020144833") or ("20140077542") or ("20100221958") or ("20160132852") or ("9179777") or				

		("20010054861") or ("20130279110") or ("20180093608") or ("20050199672") or ("9257018") or ("20160144779") or ("20060268506") or ("20150220114") or ("6149001") or ("9207724") or ("9701248") or ("20160195899") or ("10191348") or ("20090098837") or ("20180257255") or ("7947903") or ("20130036949") or ("7789875") or ("20190024683") or ("7461483") or ("20130278122") or ("20100220434") or ("8345410") or ("5101736") or ("20090044736") or ("9840195") or ("20030191467") or ("9901713") or ("20020142650") or ("9173491") or ("20140110276") or ("5993227") or ("9563239") or ("7347484") or ("6279861") or ("20160202734") or ("20160320808") or ("20110138557") or ("20050026493") or ("5680721") or ("9993054") or ("20090009936") or ("6005209") or ("6557310") or ("7930006") or ("10245374") or ("9345328") or ("8733857") or ("9916570") or ("20170353209") or ("9643629") or ("7509891") or ("20170151972") or ("9145158") or ("20110180297") or ("20150305505") or ("9489020") or ("20180323559") or ("10089615") or ("7041103") or ("7650230") or ("20060044262") or ("10345672") or ("7736196") or ("20190305571") or ("20140376999") or ("6520607") or ("20160003270") or ("9486935") or ("20080226389") or ("20170161708") or ("8458847") or ("10245754") or ("7938689") or ("20150164227") or ("20150328020") or ("9631767") or ("9568947") or ("20110166947") or ("20170068143") or ("9882305") or ("20170354220") or ("10463120") or ("9189017") or ("20160358147") or ("8655422") or ("20140077571") or ("6545214") or ("20170221035") or ("10071683") or ("20150108317") or ("9451826") or ("20130284684") or ("6709039") or ("20130282501") or ("20060124133") or ("20120257341") or ("20110166690") or ("20160046309") or ("6115931") or ("6452793") or ("8896991") or ("9742458") or ("5337464") or ("9351552") or ("9466228") or ("10043495") or ("20060167453") or ("20170367503") or ("20100103602") or ("20080023508") or ("20160367029")).PN. or (("20120311941") or ("20150192953") or ("20080251680") or ("9010597") or ("20120327588") or ("7933123") or ("10490961") or ("8519326") or ("20060035767") or ("20110297578") or ("20160018847") or ("20080111032") or ("20190277441") or ("20030122457") or ("8138469") or				