

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S585	1580	mobility near1 management near1 (mapping or map\$4 or information)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/28 13:42
S586	22	S579 and S585	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/28 13:42
S587	70	(mobility near1(mapping or map\$4)) and S585	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/28 13:43
S588	10	(mobility near4 (mapping or map\$4)) same (condition or criteria or criterion) same (mobility near1 (support or level))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/28 13:46
S589	65	(mobility near4 (mapping or map\$4)) same (mobility near1 (support or level))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/28 13:47
S590	59	(mobility near1 management near1 information) same (map\$4 or mapping)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/28 13:49
S591	10	(map\$6 or mapping) near6 (mobility near1 management near1 information)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/28 13:51
S592	606	(map\$6 or mapping) near6 (mobility near1 (management or information))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/28 13:53
S593	11	(mobility near1 mechanism) same	US-PGPUB;	OR	ON	2019/10/28

		S592	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			13:54
S594	15	(mobility near1 mechanism) and S592	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/28 13:55
S595	12	(management near1 information) same S592	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/28 13:56
S596	80	UE same S592	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/28 13:57
S597	10	S592 same (condition or criteria or criterion) same (support\$4 or level\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/28 13:57
S598	11	(mobility near1 management near1 information) same (condition or criteria or criterion) same (support\$4 or level\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/28 13:59
S599	53	(mobility near1 management near1 information) same (condition or criteria or criterion)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/28 14:00
S600	67	(mobility near1 management near1 (information or mechanism)) same (condition or criteria or criterion)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/28 14:01
S601	68	(mobility near1 management near1 (information or mechanism or mapping)) same (condition or criteria or criterion)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2019/10/28 14:02

			IBM_TDB			
S602	48	(mobility near1 management near1 (information or mechanism or mapping)) same mapping	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/28 14:04
S603	43	(mobility near1 management near1 (information or mechanism or mapping)) same (mobility near1 (support\$4 or level))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/28 14:07
S604	31243	(condition\$1 or criteria or criterion) near4 ((user near1 equipment\$1) or UE\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/29 11:22
S605	1890	mobility same S604	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/29 11:22
S606	3643	mobility near1 ((management near1 mechanism) or level\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/29 11:23
S607	34	S604 same S606	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/29 11:23
S608	1580	mobility near1 management near1 ((mapping or map\$4) or information)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/29 11:24
S609	5	S608 same S604	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/29 11:25
S610	9	(condition\$1 or criteria or criterion) same S606 same S608	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2019/10/29 11:25

			EPO; JPO; DERWENT; IBM_TDB			
S611	15	S606 same S608	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/29 11:26
S612	4739	mobility near1 (mechanism or level\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/29 11:27
S613	12	S608 same S612	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/29 11:27
S614	34	S608 and S612	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/29 11:28
S615	574	S608 same ((user near1 equipment\$1) or UE\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/29 11:29
S616	17	(on-demand or (on near1 demand)) near1 (mobility near1 management)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/29 11:30
S617	1017	(mobility near1 management) near1 support\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/29 11:34
S618	59	S617 and S608	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/29 11:35
S619	13	(desired or desir\$4) near1 (mobility near1 management\$1)	US-PGPUB; USPAT;	OR	ON	2019/10/29 11:37

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S620	17	S616 and (mobility near1 management\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/29 11:38
S621	458	mobility near1 (mapping or mapped or map\$4 or map)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/29 12:06
S622	70	S621 and S608	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/29 12:10
S623	169	mobility adj1 (mapping or mapped or map\$4 or map)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/29 12:11
S624	11	(mobility near1 (management near1 mechanism or level\$1)) and S623	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/29 12:13
S625	383	(mobility near1 (management near1 mechanism or level\$1)) same (mapping or map\$4 or mapped or map or table or list)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/29 12:14
S626	105	(mobility adj1 (management near1 mechanism or level\$1)) same (mapping or map\$4 or mapped or map or table or list)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/29 12:15
S627	13	(mobility near1 management\$1) same (mobility adj1 (mechanism or level\$1)) same (mapping or map\$4 or mapped or map or table or list)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/29 12:16

S628	3	(IMS or type or (smart near1 phone)) and S620	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/29 12:24
S629	9400	(block\$4 or blocked or block\$6) near4 (packet\$4 near1 (transmission\$1 or transmit\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 09:33
S630	190	whether near4 S629	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 09:34
S631	329307	((frequency near1 bandwidth\$1) or ((transmission or transmit\$4) near1 rate\$1) or (buffer\$4 near1 permission near1 time\$1) or (packet near1 transmission near1 priority))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 09:36
S632	2	S630 near6 S631	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 09:37
S633	4	S630 same S631	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:13
S634	27952	(category or categories) near4 (applications or application)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:14
S635	2593	((quality near1 service) or QoS) near6 (category or categories)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:15
S636	524169	(category or categories or index\$1 or index or ID or identifier or identification identif\$4) near4 (applications or application)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/10/30 10:17

			DERWENT; IBM_TDB			
S637	192732	(applications or application) near1 (information or informations)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:18
S638	21202	S636 same S637	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:19
S639	74	(congestion or congest\$4) near8 (network near1 session\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:30
S640	353	(congestion or congest\$4 or condition or criteria or criterion) near8 (network near1 session\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:30
S641	5	(S636 or S637) same S640	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:32
S642	75	(applications or application) same S640	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:33
S643	21202	S636 same S637	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:33
S644	2	S643 and S642	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:33
S645	28	(S636 or S637) and S642	US-PGPUB; USPAT; USOCR;	OR	ON	2019/10/30 10:34

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S646	5	((congestion or congest\$4) near4 (condition or criteria or criterion)) near8 (network near1 session\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:35
S647	857812	(applications or application) near6 (information or informations)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:37
S648	98044	S647 same S636	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:37
S649	234	((controlling or control or controlled or control\$4) near4 traffic) same S648	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:39
S650	45	((controlling or control or controlled or control\$4) near4 traffic) same S648 same (traffic near1 flow\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:39
S651	5264	S648 same (policy or policies)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:41
S652	80	S648 same (policy or policies) same S649	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:41
S653	210621	(category or categories or index\$1 or index or ID or identifier or identification identif\$4) near1 (applications or application)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:42
S654	727	((controlling or control or controlled	US-PGPUB;	OR	ON	2019/10/30

		or control\$4) near4 traffic) same S653	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			10:43
S655	2	((congestion or congest\$4) near4 (condition or criteria or criterion)) same S654	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:44
S656	5	"20140026169".pn. or "20140153402".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:47
S657	0	S656 and S653	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:47
S658	0	(S636 or S637) and S656	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:48
S659	21202	S636 same S637	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:50
S660	5146	((controlling or control or controlled or control\$4) near4 traffic) near6 (policy or policies)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:51
S661	7	S660 same S659	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:52
S662	82	S659 same (traffic near1 flow\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2019/10/30 10:54

			IBM_TDB			
S663	5	S659 same (traffic near1 flow\$4) same congest\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:55
S664	11	((controlling or control or controlled or control\$4) near4 (traffic near4 flow\$4)) same S636 same S637	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:56
S665	5	S635 same profile\$1 same (S636 or S637)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 11:14
S666	1828	(application or applications) near6 (network near1 (session or sessions))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 11:36
S667	27952	(category or categories) near4 (application or applications)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 11:37
S668	7	S666 same S667	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 11:37
S669	692831	(category or categories or information) near4 (application or applications)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 11:38
S670	278	S669 same S666	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 11:39
S671	23	S669 same S666 same ((quality near1 service) or QoS)	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2019/10/30 11:39

			EPO; JPO; DERWENT; IBM_TDB			
S672	0	"20130070599".pn. and (session or sessions)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 11:56
S673	0	(category or categories) and "8612612".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 11:57
S674	2	buffer\$4 near1 permission near1 time	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 14:15
S675	2611	blockage\$1 near1 (condition\$1 or criteria or criterion or characteristic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/01 21:28
S676	25	timer\$1 same S675	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/01 21:28
S677	14	S675 near6 (satisfied or satisfy or satisf\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/01 21:29
S678	5557	(radio near1 link\$1) near5 (measurement or measur\$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/01 21:32
S679	209	S678 near6 threshold\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/01 21:32
S680	3	S675 same S679	US-PGPUB; USPAT;	OR	ON	2019/11/01 21:32

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S681	3	blockage\$1 same S679	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/01 21:33
S682	19	blockage\$1 same S678	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/01 21:33
S683	11	(low-energy or (low near1 energy)) near1 radio near1 technology	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 09:34
S684	32676	Bluetooth near1 (low-energy or (low near1 energy))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 09:35
S685	5	(S683 or S684) near1 (user near1 interface)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 09:36
S686	0	(classic-energy or (classic near1 energy)) near1 radio near1 technology	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 09:37
S687	128	(classic-energy or (classic near1 energy))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 09:37
S688	0	S687 near4 (radio near1 technology)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 09:37

S689	0	S687 near4 (user near1 interface)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 09:38
S690	22	(S683 or S684) same S687	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 09:38
S691	993	(low-energy or (low near1 energy)) near1 radio	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 09:41
S692	391	(S683 or S684 or S691) same ((advertising or advertis\$6) near4 data)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 09:42
S693	118	(low-energy or (low near1 energy)) near4 ((advertising or advertis\$6) near4 data)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 09:42
S694	84	S693 same (S683 or S684 or S691)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 09:43
S695	0	S694 same S691	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 09:43
S696	0	S691 near6 ((advertising or advertis\$6) near4 data)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 09:43
S697	3	S691 near6 (advertising or advertis\$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/11/05 09:43

			DERWENT; IBM_TDB			
S698	9	(subset\$1 or sub-set\$1) same (record\$6 near6 (identities or identity)) same (advertising or advertis\$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 09:46
S699	565	(subset\$1 or sub-set\$1) same (record\$6 near6 (identities or identity))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 09:47
S700	10	(S683 or S684 or S691) same (record\$6 near6 (identities or identity))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 09:47
S701	464692	(Bluetooth near1 ((Low near1 energy) or low-energy)) OR BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 10:34
S702	1590	classic near1 Bluetooth	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 10:34
S703	1155	S701 same S702	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 10:35
S704	10247	(reestablishment or re-establishment or reestablish\$6 or re-establish\$6) near6 link\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 10:35
S705	1	S703 same S704	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 10:36
S706	0	((Low near1 energy) or low-energy) near1 radio near1 peripheral\$1	US-PGPUB; USPAT; USOCR;	OR	ON	2019/11/05 10:38

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S707	993	((Low near1 energy) or low-energy) near1 radio	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 10:38
S708	1	S707 near4 (advertising or advertisement or advertis\$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 10:39
S709	2	"20180295660".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 10:41
S710	0	identities and S709	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 10:42
S711	2	(identities or identity or ID or identification or identif\$4) and S709	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 11:04
S712	181	favorite near1 (subset or sub-set)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 11:08
S713	0	S707 and S712	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 11:08
S714	177858	(favorite or select\$6 or choos\$6 or chos\$6) near4 (subset or sub-set)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 11:09
S715	0	S707 same S714	US-PGPUB;	OR	ON	2019/11/05

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			11:10
S716	46	S707 and S714	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 11:10
S717	0	S708 and S714	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 11:10
S718	0	S708 same (subset or sub-set)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 11:11
S719	0	S708 and (subset or sub-set)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 11:11
S720	27	S707 same (advertising or advertisement or advertis\$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 11:11
S721	3	S720 and S714	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 11:12
S722	993	((low-energy or (low near1 energy)) near1 (radio or radios)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 11:14
S723	1856	((Bluetooth near1 ((Low near1 energy) or low-energy)) OR BLE) near1 (radio or radios)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2019/11/05 11:15

			IBM_TDB			
S724	99	(S722 or S723) near4 (advertisement or advertis\$6 or advertising or broadcast\$6 or multicast\$6 or multit-cast\$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 11:16
S725	352349	(record\$6 or recorded or recorded) near4 (identity or identities or ID or identification or identifier\$1 or Identif\$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 11:17
S726	3	S725 same S724	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 11:18
S727	12	S725 same (S722 or S723)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 11:18
S728	23	S724 and S725	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 11:19
S729	445	(S722 or S723) same (advertisement or advertis\$6 or advertising or broadcast\$6 or multicast\$6 or multit-cast\$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 11:21
S730	9	S729 same S725	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 11:21
S731	12	(S722 or S723) same S725	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 11:23
S732	993	(low-energy or (low near1 energy)) near1 (radio or radios)	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2019/11/05 11:59

			EPO; JPO; DERWENT; IBM_TDB			
S733	3	S732 near6 (advertising or advertises or advertise or advertisement or advertis\$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 12:00
S734	868238	(type\$1 or class\$4) near1 (peripheral or device\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 12:03
S735	0	S732 same (advertising or advertises or advertise or advertisement or advertis\$6) same S734	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 12:04
S736	10	S732 same S734	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/05 12:04
S737	1004	(low-energy or (low\$4 near1 energy)) near1 radio	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/06 12:38
S738	1	S737 near4 (advertise or advertising or advertis\$6 or advertisement)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/06 12:39
S739	4	monitor\$6 near4 S737	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/06 12:40
S740	27	S737 same (advertise or advertising or advertis\$6 or advertisement)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/06 12:40
S741	24	S740 same (monitor\$6 or type\$1 or peripheral or device)	US-PGPUB; USPAT;	OR	ON	2019/11/06 12:41

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S742	5	"20150043520".pn. or "20140314041".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/06 14:18
S743	261	((low-energy or (low near1 energy)) near1 (radio or radios)) and RFID	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/06 14:43
S744	61	((low-energy or (low near1 energy)) near1 (radio or radios)) and RFID and (BLE same Bluetooth)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/06 14:43
S745	7	((low-energy or (low near1 energy)) near1 (radio or radios)) and RFID and (BLE near1 Bluetooth)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/06 14:44
S746	140	Classic near1 BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/07 16:16
S747	103	S746 near1 Bluetooth\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/07 16:17
S748	2	S747 near1 radio	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/07 16:17
S749	235	management/point-of-sale or (management near1 point-of-sale)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 05:51

S750	4	(advertising or advertise or advertisement or advertis\$6) same S749	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 05:52
S751	58028	point-of-sale or (management near1 point-of-sale)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 05:53
S752	2407	(advertising or advertise or advertisement or advertis\$6) same S751	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 05:53
S753	3	(advertising or advertise or advertisement or advertis\$6) same S751 same BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 05:53
S754	464846	(Bluetooth near1 (low-energy or (low near1 energy))) or BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 05:55
S755	7	(advertising or advertise or advertisement or advertis\$6) same S751 same S754	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 05:56
S756	7	S755 and S754	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 05:59
S757	0	NRRW and S755	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 06:19
S758	2	(discoverable or discover\$6) and S755	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/11/08 06:20

			DERWENT; IBM_TDB			
S759	3	(advertising or advertise or advertisement or advertis\$6) same serviceuid	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 07:42
S760	736	(discoverable or discover\$6) near6 BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 08:15
S761	0	BLE near1 favorite	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 08:17
S762	1	BLE near10 favorite	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 08:19
S763	994	(low-energy or (low near1 energy)) near1 radio	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 08:20
S764	51	Bluetooth near1 low-energy near1 radio	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 08:22
S765	0	S763 near1 (advertising or advertise or advertisement or advertis\$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 08:23
S766	20664	monitor\$6 near6 (advertising or advertise or advertisement or advertis\$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 08:24
S767	1	(S763 or S764) near4 (advertising or advertise or advertisement or advertis\$6)	US-PGPUB; USPAT; USOCR;	OR	ON	2019/11/08 08:24

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S768	1	(S763 or S764) same (advertising or advertise or advertisement or advertis\$6) same monitor\$6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 08:25
S769	8	(S763 or S764) and S766	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 08:26
S770	1	(S763 or S764) and (advertising or advertise or advertisement or advertis\$6) and S767	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 08:27
S771	4	monitor\$6 near4 (S763 or S764)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 08:28
S772	8	S766 and (S763 or S764)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 08:29
S773	0	(discoverable or discover\$6 or monitor\$6) and S767	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 08:29
S774	1475	(low-energy or (low near1 energy) or BLE) near1 (advertising or advertise or advertisement or advertis\$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 08:31
S775	217681	(select\$6 or choos\$6 or chos\$6) near6 (favorite or subset\$1 or sub- set\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 08:32
S776	50	S774 and S775	US-PGPUB;	OR	ON	2019/11/08

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			08:32
S777	0	S774 same S775	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 08:33
S778	40	(discoverable or discover\$6 or monitor\$6) and S776	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 08:33
S779	13565	(discoverable or discover\$6 or monitor\$6) same S775	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 08:33
S780	3	S779 and S774	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 08:34
S781	44484	radio near1 range\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 08:42
S782	7	S774 same S781	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 08:43
S783	3	(S763 or S764) near6 (advertising or advertise or advertisement or advertis\$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 08:47
S784	59796	H04W4/80.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2019/11/08 09:21

			IBM_TDB			
S785	291	S784 and (S763 or S764)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 09:21
S786	128	S785 and (advertising or advertise or advertisement or advertis\$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 09:22
S787	14	S785 and ((advertising or advertise or advertisement or advertis\$6) same (S763 or S764))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 09:22
S788	1593	classic near1 Bluetooth	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 14:35
S789	5431	BLE near1 Bluetooth	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 14:36
S790	1	(reconnect\$6 or re-connect\$6) same S788 same S789	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 14:37
S791	4472	attempt\$6 near4 (reconnect\$6 or re-connect\$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 14:39
S792	7	BLE near6 S791	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 14:39
S793	19	BLE same S791	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2019/11/08 14:40

			EPO; JPO; DERWENT; IBM_TDB			
S794	0	(favorites or favorit\$6) near4 S791	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 14:41
S795	1	(favorites or favorit\$6) same S791	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 14:42
S796	80771	attempt\$6 near4 (reconnect\$6 or re-connect\$6 or connect or connecting or connectes or connecte or connect\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 14:47
S797	0	CaptureHelperUI	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 14:48
S798	0	BLE near1 favorite\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 14:49
S799	1	BLE near6 (favorited or favorite or favorite\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 14:50
S800	71	BLE same (favorited or favorite or favorite\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 14:50
S801	27	S800 same (reconnect\$6 or re- connect\$6 or connect or connecting or connectes or connecte or connect\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 14:52
S802	99	BLE near1 (favor or favorite or favorites)	US-PGPUB; USPAT;	OR	ON	2019/11/08 14:53

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S803	3152	(favor or favorite or favorites) near4 (reconnect\$6 or re-connect\$6 or connect or connecting or connectes or connecte or connect\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 14:54
S804	15	(favor or favorite or favorites) near4 (reconnect\$6 or re-connect\$6 or (re near1 (connect or connecting or connectes or connecte or connect\$4)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 14:55
S805	2	(favor or favorite or favorites) same (reconnect\$6 or re-connect\$6 or (re near1 (connect or connecting or connectes or connecte or connect\$4))) same BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 14:56
S806	1978	(reconnect\$6 or re-connect\$6 or (re near1 (connect or connecting or connectes or connecte or connect\$4))) same BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 14:56
S807	156	(reconnect\$6 or re-connect\$6 or (re near1 (connect or connecting or connectes or connecte or connect\$4))) near10 BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 14:57
S808	0	(favor or favorite or favorites) same S807	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 14:58
S809	5	(favor or favorite or favorites) AND S807	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 14:58
S810	0	Off/Reset same S807	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 14:59

S811	0	Off/Reset and S807	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 15:00
S812	414424	(favor or favorite or favorites) or (special near1 event\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 15:00
S813	2	(reconnect\$6 or re-connect\$6 or (re near1 (connect or connecting or connectes or connecte or connect\$4))) same BLE same S812	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 15:01
S814	1978	(reconnect\$6 or re-connect\$6 or (re near1 (connect or connecting or connectes or connecte or connect\$4))) same BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 15:01
S815	20	S814 and S812	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 15:02
S816	48	S788 and S789 and (dual-mode or (dual near1 mode\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 15:03
S817	8	(reconnect\$6 or re-connect\$6 or (re near1 (connect or connecting or connectes or connecte or connect\$4))) and S816	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 15:03
S818	15	S788 same S789 same (dual-mode or (dual near1 mode\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 15:09
S819	2	"20190150215".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/11/08 15:13

			DERWENT; IBM_TDB			
S820	0	(reconnect\$6 or re-connect\$6 or (re near1 (connect or connecting or connectes or connecte or connect\$4))) and S819	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 15:14
S821	3	(reconnect\$6 or re-connect\$6 or (re near1 (connect or connecting or connectes or connecte or connect\$4))) and S818	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 15:14
S822	19	(reconnect\$6 or re-connect\$6 or (re near1 (connect or connecting or connectes or connecte or connect\$4))) same (S788 or S789)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 15:15
S823	6	"2014018002".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 15:21
S824	0	WO2018000134-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 15:22
S825	2	WO-2018000134-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 15:22
S826	4	"20190253857".pn. or "20190150215".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 15:25
S827	2	(reconnect\$6 or re-connect\$6 or (re near1 (connect or connecting or connectes or connecte or connect\$4))) and S826	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 15:26
S828	1	(attempt\$6 or attempting or attempts or attempte) and S826	US-PGPUB; USPAT; USOCR;	OR	ON	2019/11/08 15:32

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S829	9978	attempt\$4 near4 (re-connecting or re-connect\$4 or reconnect\$4 or re-establish\$4 or reconnect\$4 or re-establish\$4 or reestablish\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/09 09:57
S830	38	BLE same S829	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/09 09:58
S831	0	S830 and (favorites or favorite)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/09 09:59
S832	0	S830 same monitor\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/09 09:59
S833	1039	S829 same monitor\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/09 10:00
S834	0	S830 and S833	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/09 10:00
S835	35	S830 and monitor\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/09 10:00
S836	0	S830 same (monitor\$4 or track\$4 or tracking)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/09 10:01
S837	35	S830 and (monitor\$4 or track\$4 or	US-PGPUB;	OR	ON	2019/11/09

		tracking)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			10:01
S838	23	S830 and ((monitor\$4 or track\$4 or tracking) same BLE)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/09 10:01
S839	13	"20190253857".pn. or "20190150215".pn. or "10070292".pn. or "20170094696".pn. or "20180295660".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/09 10:08
S840	2	(pairing or pair\$4) and S839	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/09 10:09
S841	107	friendly-pairing or friendly-pair\$4 or (friendly near1 (pairing or pair\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/09 20:55
S842	1015	(low-energy or (low near1 energy)) near1 (radio ro radios)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/09 20:57
S843	464859	(Bluetooth near1 (low-energy or (low near1 energy))) OR BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/09 20:58
S844	5922	(advertising or advertise or advertisement or advertise or advertises or advertis\$4) same (S842 or S843)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/09 20:59
S845	20667	monitor\$4 near6 (advertising or advertise or advertisement or advertise or advertises or advertis\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2019/11/09 21:00

			IBM_TDB			
S846	169	S844 same S845	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/09 21:00
S847	9978	attempt\$4 near4 (reconnect\$4 or re-connect\$4 or reestablish\$4 or re- establish\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/09 21:02
S848	48	S847 same (S842 or S843)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/09 21:02
S849	0	S846 and S848	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/09 21:03
S850	0	S845 and S848	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/09 21:03
S851	1271	(advertising or advertise or advertisement or advertise or advertises or advertis\$4) near6 favorite	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/09 21:03
S852	1	S851 same (S842 or S843)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/09 21:04
S853	539	S845 and (S842 or S843)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/09 21:05
S854	1	S845 and (S842 or S843) and S847	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2019/11/09 21:05

			EPO; JPO; DERWENT; IBM_TDB			
S855	19	(S842 or S843) near6 S847	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/09 21:07
S856	359	(S842 or S843) near4 (reconnect\$4 or re-connect\$4 or reestablish\$4 or re-establish\$4 or attempt\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/09 21:08
S857	19	S856 same S847	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/09 21:09
S858	27	S856 and S847	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/09 21:09
S859	263	(S842 or S843) and S847	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/09 21:11
S860	78	S844 and S859	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/09 21:11
S861	20136159	(Re)connect or reconnect\$4 or re- connect\$4 or reconnection or re- connection or reestablish\$4 or re- establish\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 08:05
S862	235065	S861 same BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 08:05
S863	54681	S861 near1 state	US-PGPUB; USPAT;	OR	ON	2019/11/11 08:05

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S864	25791	available near1 state	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 08:06
S865	9	S862 and S863 and S864	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 08:06
S866	561	status same S862	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 08:07
S867	0	AKA and S866	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 08:07
S868	9	(favorite or favorites) and S866	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 08:09
S869	145008	(automatic or automatically) near4 S861	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 08:10
S870	5082	(advertise or advertising or advertis\$4 or advertisement) same BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 08:11
S871	92	S862 and S870 and S869	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 08:11

S872	63650	(attempt\$4 or attemptes or attempte) near4 S861	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 08:19
S873	183	S872 and S870 and S862	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 08:20
S874	30	S872 and S870 and S862 and S869	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 08:20
S875	294	(friendly or friend\$4) near1 (pairing or pair\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 08:25
S876	0	S872 and S862 and S875	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 08:25
S877	183	S872 and S862 and S870	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 08:25
S878	1532	S862 same S870	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 08:25
S879	135	S872 and S878	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 08:26
S880	43	S872 same S878	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/11/11 08:26

			DERWENT; IBM_TDB			
S881	994	(low-enery or (low near1 energy)) near1 (radio or radios)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 08:28
S882	53	classic same BLE same dual-mode	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 08:29
S883	93	classic same BLE same (dual-mode or dual-modes or (dual near1 (modes or mode)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 08:30
S884	10	S883 and S872	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 08:30
S885	281	S872 same BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 08:36
S886	5	S883 and S885	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 08:36
S887	10	S883 and S872	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 08:37
S888	94	classic same BLE same (dual-mode or dual-modes or (dual same(modes or mode)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 08:39
S889	166	classic same BLE same (mode or modes)	US-PGPUB; USPAT; USOCR;	OR	ON	2019/11/11 08:39

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S890	12	(S888 or S889) and S872	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 08:40
S891	6	"20190253857".pn. or "20190150215".pn. or "20140323048".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 08:45
S892	2	S891 and S872	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 08:46
S893	27786496	(re)connect or (re)connection or reconnect or reconnect\$4 or re- connect\$4 or reestablish\$4 or re- establish\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 16:04
S894	97366	(attempting or attempt\$4 or attempes or attempte) near4 S893	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 16:05
S895	18388	S893 near6 BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 16:05
S896	139	S894 same S895	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 16:06
S897	0	(monitor\$4 near6 BLE) same S896	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 16:06
S898	23	(monitor\$4 near6 BLE) and S896	US-PGPUB;	OR	ON	2019/11/11

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			16:06
S899	4049	S895 same (pairing or pair\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 16:09
S900	47	S895 same (pairing or pair\$4) same monitor\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 16:09
S901	4049	S895 same (pairing or pair\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 16:11
S902	144	classic same BLE same Bluetooth same mode	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 16:11
S903	8	S901 and S902	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 16:12
S904	91	classic same BLE same Bluetooth same S895	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 16:13
S905	6	classic same BLE same Bluetooth same S894	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 16:14
S906	6	classic same BLE same S894	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2019/11/11 16:14

			IBM_TDB			
S907	414	BLE same S894	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 16:15
S908	25	(classic same BLE same Bluetooth) and S907	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 16:15
S909	1313	monitor\$6 near6 S894	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 16:20
S910	90	BLE near6 S894	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 16:21
S911	1	S909 and S910	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 16:21
S912	0	(favorite or favorit\$4) near4 BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 18:55
S913	72	(favorite or favorit\$4) same BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 18:55
S914	20	(advertising or advertis\$4 or advertisement or advertises or advertise) and S913	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 18:56
S915	465158	((low-energy or (low near1 energy)) near1 radio) OR (Bluetooth near1 (low-energy or (low near1 energy))) OR BLE	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2019/11/11 19:02

			EPO; JPO; DERWENT; IBM_TDB			
S916	27786500	reestablishment or re-establishment or reestablish\$4 or re-establish\$4 or S893	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:03
S917	247171	(automatically or automatic\$4) near\$4 S916	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:04
S918	2470	S917 same S915	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:04
S919	110	friendly-pairing or (friendly near1 pair\$4) or friend-pair\$4 or friendly- pair\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:05
S920	0	S918 and S919	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:05
S921	7	S915 and S919	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:06
S922	1450	S915 near1 (advertising or advertis\$4 or advertisement or advertises or advertise)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:08
S923	42	S918 and S922	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:08
S924	97366	attempt\$4 near\$4 S916	US-PGPUB; USPAT;	OR	ON	2019/11/11 19:15

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S925	3909	S917 same S924	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:16
S926	10	S917 same S924 same S915	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:16
S927	2907	(S917 or S924) same S915	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:16
S928	148	S917 and S924 and S927	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:17
S929	20	S917 and S924 and S927 and (classic same S915)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:17
S930	3771	Bluetooth same S917	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:21
S931	479	S924 same S915	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:22
S932	8	S930 and S931	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:22

S933	1158	(classic near1 Bluetooth) same S915	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:23
S934	23	S933 same (S917 or S924)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:24
S935	0	WO2018000134-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:27
S936	2	WO-2018000134-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:36
S937	420	(advertising or advertis\$4 or advertisement or advertises or advertise) same S915 same monitor\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:38
S938	394	S937 and (S917 or S924 or S916)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:39
S939	141	(advertising or advertis\$4 or advertisement or advertises or advertise) same S915 same monitor\$4 same S916	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:39
S940	5350	favorite near4 data	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:40
S941	58	S915 and S940	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/11/11 19:41

			DERWENT; IBM_TDB			
S942	16545	(advertising or advertis\$4 or advertisement or advertises or advertise) near6 (prefer\$4 or preference or favorites or favorite or preferences)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:44
S943	231	monitor\$4 near6 S942	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:44
S944	0	S943 same S915	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:44
S945	16	S942 same S915	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:45
S946	2284	S915 near4 (prefer\$4 or preference or favorites or favorite or preferences)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:49
S947	1455	S946 same S916	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:50
S948	0	S946 same S917 same S924	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:50
S949	6	S946 same (S917 or S924)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:50
S950	67043	(prefer\$4 or preference or favorites or favorite or preferences) near6 S916	US-PGPUB; USPAT; USOCR;	OR	ON	2019/11/11 19:51

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S951	1300	S915 same S950	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:52
S952	1227	S950 same (S917 or S924)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:52
S953	8	S950 same (S917 or S924) same S915	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:52
S954	842	(advertising or advertis\$4 or advertisement or advertises or advertise) same S950	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:53
S955	5922	(advertising or advertis\$4 or advertisement or advertises or advertise) same S915	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:54
S956	31	S951 and S955	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:55
S957	16	S951 and S955 and (S917 or S924)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:56
S958	2688	(prefer\$4 or preference or favorites or favorite or preferences) near6 S915	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 19:59
S959	0	S958 near6 (S917 or S924)	US-PGPUB;	OR	ON	2019/11/11

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			20:00
S960	7	S958 same (S917 or S924)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:00
S961	2153	S915 near6 S958	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:01
S962	1617	(prefer\$4 or preference or favorites or favorite or preferences) near1 S915	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:01
S963	1561	S915 near4 S962	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:01
S964	0	S917 near4 S962	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:01
S965	0	S924 near4 S962	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:02
S966	146	(prefer\$4 or preference or favorites or favorite or preferences) near4 S924	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:02
S967	3	S915 and S966	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2019/11/11 20:03

			IBM_TDB			
S968	2284	(prefer\$4 or preference or favorites or favorite or preferences) near4 S915	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:03
S969	2	S968 same S924	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:03
S970	232419	(select\$4 or choos\$4 or chos\$4) near6 (prefer\$4 or preference or favorites or favorite or preferences)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:04
S971	166	S970 same S924	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:05
S972	1	S970 same S924 same S915	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:05
S973	447	S970 same S915	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:05
S974	4	S973 and S924	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:05
S975	3646	S970 and S915	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:06
S976	447	S970 same S915	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2019/11/11 20:06

			EPO; JPO; DERWENT; IBM_TDB			
S977	446	S970 same S915 same BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:06
S978	234	S970 same S915 same S916	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:06
S979	2191	(prefer\$4 or preference or favorites or favorite or preferences) same S924	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:12
S980	34	(prefer\$4 or preference or favorites or favorite or preferences) same S924 same S915	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:12
S981	34	(prefer\$4 or preference or favorites or favorite or preferences) same S924 same Bluetooth	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:13
S982	0	BLE near1 friend\$4 near1 pair\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:14
S983	0	BLE near4 friend\$4 near1 pair\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:14
S984	0	S915 same ((friend\$4 near1 pair\$4) or (friendly near1 pairing) or (friend\$4 near1 pair\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:15
S985	103557	S915 same pair\$4	US-PGPUB; USPAT;	OR	ON	2019/11/11 20:15

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S986	532	S915 near1 pair\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:16
S987	2	S915 near1 pair\$4 same S924	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:16
S988	92	S915 same pair\$4 same S924	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:16
S989	2191	(prefer\$4 or preference or favorites or favorite or preferences) same S924	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:18
S990	159	S915 and S989	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:18
S991	3	S955 and S989	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:19
S992	304	(prefer\$4 or preference or favorites or favorite or preferences) same S955	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:19
S993	16	S970 and S992	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:20

S994	331	(prefer\$4 or preference or favorites or favorite or preferences) near10 S924	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:22
S995	0	S955 and S994	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:22
S996	14	S915 and S994	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:23
S997	90446	(prefer\$4 or preference or favorites or favorite or preferences) near10 S916	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:24
S998	423	(S915 same Bluetooth) and S997	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:24
S999	18	(S915 same Bluetooth) same S997	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:24
S1000	4	"20140323048".pn. or "20190253857".pn. or "201901502315".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:27
S1001	0	(prefer\$4 or preference or favorites or favorite or preferences) and S1000	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:27
S1002	51391	(prefer\$4 or preference or favorites or favorite or preferences) same BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/11/11 20:27

			DERWENT; IBM_TDB			
S1003	35070	(prefer\$4 or preference or favorites or favorite or preferences) same BLE same (S916 or S917 or S924)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:28
S1004	35070	(prefer\$4 or preference or favorites or favorite or preferences) same BLE same S916	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:37
S1005	121	S1003 and S924	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:38
S1006	23	S1003 and S924 and S917	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:38
S1007	23	S1005 and S955	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:39
S1008	331	S924 near10 (prefer\$4 or preference or favorites or favorite or preferences)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:39
S1009	0	S1008 and S955	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:40
S1010	214	S924 near6 (prefer\$4 or preference or favorites or favorite or preferences)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:40
S1011	0	S1010 same BLE	US-PGPUB; USPAT; USOCR;	OR	ON	2019/11/11 20:40

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1012	67043	S916 near6 (prefer\$4 or preference or favorites or favorite or preferences)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:41
S1013	1298	S1012 same BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:41
S1014	233	monitor\$4 near6 S1012	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:42
S1015	1	S1013 and S1014	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:42
S1016	72	S1012 and S955	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:43
S1017	35412	(prefer\$4 or preference or favorites or favorite or preferences) near1 data	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:46
S1018	0	S1017 same S924 same S915	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:46
S1019	26	S1017 same S924	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:46
S1020	2282	BLE near4 (prefer\$4 or preference	US-PGPUB;	OR	ON	2019/11/11

		or favorites or favorite or preferences)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			20:47
S1021	1616	BLE near1 (prefer\$4 or preference or favorites or favorite or preferences)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:48
S1022	7	S1021 and S924	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:48
S1023	1033	S1021 same S916	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:48
S1024	4	S1021 same S917	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:48
S1025	12	S1023 and S917	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:49
S1026	29	S1020 and S955	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:49
S1027	465158	((low-energy or (low near1 energy)) near1 radio) OR (Bluetooth near1 (low-energy or (low near1 energy))) OR BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 20:56
S1028	52018	(advertising or advertises or advertises or advertisement or advertis\$4) same (favorite or preference or prefer\$4 or favor\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2019/11/11 20:59

			IBM_TDB			
S1029	904258	(select\$4 or choos\$4 or chos\$4) same (favorite or preference or prefer\$4 or favor\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:00
S1030	624	S1027 and S1028 and S1029	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:00
S1031	50	(S1027 same S1029) and (S1028 same S1029)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:01
S1032	94	S1027 and S1028 and S1029 and (service-UUID or (service near1 UUID) or UUID)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:06
S1033	10043	(S1027 same (S1028 or S1029))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:10
S1034	4	S1033 same (service-UUID or (service near1 UUID) or UUID)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:10
S1035	8512	((re)connect or reconnect or re-connect or reestablish or re-establish) and S1033	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:13
S1036	5541	((re)connect or reconnect or re-connect or reestablish or re-establish) same S1033	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:13
S1037	236306	((re)connect or reconnect or re-connect or reestablish or re-establish) same S1027	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2019/11/11 21:14

			EPO; JPO; DERWENT; IBM_TDB			
S1038	27	S1031 and S1037	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:14
S1039	918	(reconnect or re-connect or reestablish or re-establish) same S1027	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:15
S1040	0	S1031 and S1039	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:15
S1041	2070	(reconnect\$4 or re-connect\$4 or reestablish\$4 or re-establish\$4) same S1027	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:16
S1042	0	S1031 and S1041	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:16
S1043	68	S1033 and S1041	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:16
S1044	19083	(attempt\$4 or automatic\$4) near4 (reconnect\$4 or re-connect\$4 or reestablish\$4 or re-establish\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:18
S1045	0	S1044 and S1027 and S1028 and S1029	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:18
S1046	75	S1044 and S1027 and (S1028 or S1029)	US-PGPUB; USPAT;	OR	ON	2019/11/11 21:18

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1047	157	S1041 same (favorite or preference or prefer\$4 or favor\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:22
S1048	51	S1047 and (S1028 or S1029)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:22
S1049	0	S1047 and S1028 and S1029	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:22
S1050	1	S1041 and S1028 and S1029	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:23
S1051	232	S1041 and (S1028 OR S1029)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:24
S1052	157	S1041 same (favorite or preference or prefer\$4 or favor\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:25
S1053	6039	(reconnect\$4 or re-connect\$4 or reestablish\$4 or re-establish\$4) same (favorite or preference or prefer\$4 or favor\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:26
S1054	824	(reconnect\$4 or re-connect\$4 or reestablish\$4 or re-establish\$4) near10 (favorite or preference or prefer\$4 or favor\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:26

S1055	9	S1041 and S1054	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:27
S1056	227	S1041 and S1029	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:27
S1057	41	S1041 same S1029	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:27
S1058	1355	(reconnect\$4 or re-connect\$4 or reestablish\$4 or re-establish\$4) same (S1028 or S1029)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:28
S1059	197	S1058 and S1027	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:28
S1060	2	S1058 and S1028 and S1029 and S1027	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:29
S1061	605	(reconnect\$4 or re-connect\$4 or reestablish\$4 or re-establish\$4) near6 (favorite or preference or prefer\$4 or favor\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:30
S1062	22	S1061 and S1027	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:30
S1063	11347	((re)connect or reconnect or re- connect or reestablish or re- establish) same ((condition or criteria or criterion) near6 (favorite or preference or prefer\$4 or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/11/11 21:32

		favor\$4))	DERWENT; IBM_TDB			
S1064	600	S1063 same S1027	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:33
S1065	284	(reconnect\$4 or re-connect\$4 or reestablish\$4 or re-establish\$4) same ((condition or criteria or criterion) near6 (favorite or preference or prefer\$4 or favor\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:33
S1066	36	S1027 and S1065	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:34
S1067	79	(reconnect\$4 or re-connect\$4 or reestablish\$4 or re-establish\$4) same (condition or criteria or criterion) same (favorite or preference or prefer\$4 or favor\$4) same S1027	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:34
S1068	157	(reconnect\$4 or re-connect\$4 or reestablish\$4 or re-establish\$4) same (favorite or preference or prefer\$4 or favor\$4) same S1027	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:35
S1069	8688	(favorite or preference or prefer\$4 or favor\$4) near1 (status or history)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:36
S1070	0	S1069 same S1027	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:36
S1071	2070	(reconnect\$4 or re-connect\$4 or reestablish\$4 or re-establish\$4) same S1027	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:37
S1072	0	S1069 and S1071	US-PGPUB; USPAT; USOCR;	OR	ON	2019/11/11 21:37

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1073	2070	(reconnect\$4 or re-connect\$4 or reestablish\$4 or re-establish\$4) and S1071	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:37
S1074	157	(reconnect\$4 or re-connect\$4 or reestablish\$4 or re-establish\$4) same S1068	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:38
S1075	515	(reconnect\$4 or re-connect\$4 or reestablish\$4 or re-establish\$4) and S1069	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:38
S1076	9	S1027 and S1075	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:38
S1077	6039	(reconnect\$4 or re-connect\$4 or reestablish\$4 or re-establish\$4) same (favorite or preference or prefer\$4 or favor\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:40
S1078	624	(reconnect\$4 or re-connect\$4 or reestablish\$4 or re-establish\$4) same (favorite or preference or prefer\$4 or favor\$4) same (pairing or pair\$4 or bonding)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:41
S1079	144	S1027 and S1078	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:41
S1080	37	S1027 same S1078	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:41
S1081	157	(reconnect\$4 or re-connect\$4 or	US-PGPUB;	OR	ON	2019/11/11

		reestablish\$4 or re-establish\$4) same (favorite or preference or prefer\$4 or favor\$4) same S1027	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			21:42
S1082	26861	(reconnect\$4 or re-connect\$4 or reestablish\$4 or re-establish\$4 or connect\$4 or establish\$4) same (favorite or preference or prefer\$4 or favor\$4) same S1027	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:43
S1083	5538	S1082 and (S1028 or S1029)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:43
S1084	64	S1082 and S1028 and S1029	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:44
S1085	149	S1082 and (S1028 same S1027)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:45
S1086	16	(reconnect\$4 or re-connect\$4 or reestablish\$4 or re-establish\$4) and (S1028 same S1027)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:45
S1087	145	S1041 same S1044	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:52
S1088	0	S1087 and S1069	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:52
S1089	72	(favorite or preference or prefer\$4 or favor\$4) and S1087	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2019/11/11 21:53

			IBM_TDB			
S1090	31497	(reconnect\$4 or re-connect\$4 or reestablish\$4 or re-establish\$4) near6 disconnect\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:58
S1091	401	(favorite or preference or prefer\$4 or favor\$4) same S1090	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:58
S1092	51	(favorite or preference or prefer\$4 or favor\$4) same S1090 same S1044	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:59
S1093	2	S1027 and S1092	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/11 21:59
S1094	825	(reconnect\$4 or re-connect\$4 or reestablish\$4 or re-establish\$4) near10 (favorite or preference or prefer\$4 or favor\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:01
S1095	995	(low-energy or (low near1 energy)) near1 (radio or radios)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:02
S1096	465004	(Bluetooth near1 (low-energy or (low near1 energy))) OR BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:03
S1097	120	(disconnection or disconnect\$4) same S1094	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:03
S1098	9986	(attempt\$4 or attempting or attempte or attemptes) near4 (reconnect\$4 or re-connect\$4 or reestablish\$4 or re-establish\$4)	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2019/11/12 05:04

			EPO; JPO; DERWENT; IBM_TDB			
S1099	46	S1098 same S1094	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:05
S1100	1	(S1095 or S1096) and S1099	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:05
S1101	1	S1098 and S1094 and (S1095 or S1096)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:06
S1102	56	(S1098 or S1094) same (S1095 or S1096)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:06
S1103	6	S1094 and S1102	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:07
S1104	6	S1094 same (S1095 or S1096)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:07
S1105	6042	(reconnect\$4 or re-connect\$4 or reestablish\$4 or re-establish\$4) same (favorite or preference or prefer\$4 or favor\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:08
S1106	157	S1105 same (S1095 or S1096)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:08
S1107	5	S1106 and S1098	US-PGPUB; USPAT;	OR	ON	2019/11/12 05:09

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1108	120	S1094 same S1097	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:09
S1109	5	S1108 and (S1095 or S1096)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:09
S1110	2072	(reconnect\$4 or re-connect\$4 or reestablish\$4 or re-establish\$4) same (S1095 or S1096)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:10
S1111	1085	(disconnection or disconnect\$4) same S1105	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:11
S1112	46	S1110 and S1111	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:11
S1113	5935	(advertisement or advertise or advertises or advertis\$4 or advertising) same (S1095 or S1096)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:13
S1114	3	S1113 and S1094	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:14
S1115	34	S1098 near10 (favorite or preference or prefer\$4 or favor\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:15

S1116	1	S1115 and (S1095 or S1096)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:15
S1117	139	S1098 same S1105	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:16
S1118	2	S1117 and BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:16
S1119	40	S1098 same BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:16
S1120	34	S1119 and (favorite or preference or prefer\$4 or favor\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:17
S1121	329	(S1105 or S1106) and S1098	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:18
S1122	5	S1106 and S1098	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:19
S1123	10	S1105 and (S1098 same BLE)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:19
S1124	10323	automatic\$4 near4 (reconnect\$4 or re-connect\$4 or reestablish\$4 or re- establish\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/11/12 05:20

			DERWENT; IBM_TDB			
S1125	10	(S1124 same S1094) and S1098	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:21
S1126	153	(BLE or S1095 or S1096) same (S1094 or S1098 or S1124)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:23
S1127	79	S1126 and (favorite or preference or prefer\$4 or favor\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:24
S1128	2	"20150170133".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:28
S1129	3	"20180012276".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:28
S1130	0	S1129 and (S1094 or S1105 or S1098)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:29
S1131	2	"20180288594".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:29
S1132	0	S1131 and (S1094 or S1105 or S1098)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:29
S1133	5	"20180098375".pn. or "20140323048".pn.	US-PGPUB; USPAT; USOCR;	OR	ON	2019/11/12 05:30

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1134	1	S1133 and (S1094 or S1105)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:30
S1135	11	S1097 and S1098	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:31
S1136	1	S1097 same BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:32
S1137	40	S1098 same BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:32
S1138	3	((reconnect\$4 or re-connect\$4 or reestablish\$4 or re-establish\$4 or connect\$4) near10 (favorite or preference or prefer\$4 or favor\$4)) and S1137	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:33
S1139	40	S1098 same BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:34
S1140	3589765	"20160088424".pn. or (favorite or favorit\$4 or prefer\$4 or preference\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:39
S1141	1	"20160088424".pn. and (favorite or favorit\$4 or prefer\$4 or preference\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:39
S1142	34	S1139 and (favorite or favorit\$4 or	US-PGPUB;	OR	ON	2019/11/12

		prefer\$4 or preference\$1)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			05:40
S1143	6	S1094 same BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:43
S1144	25	S1094 and BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:43
S1145	34	S1098 near10 (favorite or preference or prefer\$4 or favor\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:44
S1146	7	S1145 and (Bluetooth or BLE or S1095 or S1096)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:45
S1147	1099523	(Bluetooth or BLE or S1095 or S1096)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:50
S1148	465300	(BLE or S1095 or S1096)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:51
S1149	29	S1094 and S1148	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:51
S1150	669	S1105 and S1148	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2019/11/12 05:52

			IBM_TDB			
S1151	157	S1105 same S1148	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:52
S1152	139	S1148 near6 (reconnect\$4 or re-connect\$4 or reestablish\$4 or re-establish\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:54
S1153	19	S1148 near6 S1098	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:54
S1154	1698	(disconnection or disconnect\$4) same S1098	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:55
S1155	42	S1148 and S1154	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:55
S1156	2564	S1148 near4 (advertisement or advertis\$4 or advertise or advertises)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:58
S1157	62	S1156 and (S1094 or S1098)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 05:59
S1158	0	S1138 and S1157	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 06:01
S1159	31	S1157 and (favorite or preference or prefer\$4 or favor\$4)	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2019/11/12 06:01

			EPO; JPO; DERWENT; IBM_TDB			
S1160	232575	(select\$4 or choos\$4 or chos\$4 or selecting or select or choose or chose) near6 (favorite or preference or prefer\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 07:47
S1161	232575	(select\$4 or choos\$4 or chos\$4 or selecting or select or choose or chose) near6 (favorite or favorites or preference or prefer\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 07:49
S1162	995	(low-energy or (low near1 energy)) near1 (radio or radios)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 07:49
S1163	5453	Bluetooth near1 BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 07:50
S1164	446	BLE same S1161	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 07:50
S1165	9986	(attempt or attempting or attempt\$4) near4 (reconnect or reconnect\$4 or re-connect\$4 or reestablish or reestablishes or reestablish\$4 or reconnection or re-connection or reestablish\$4 or re-establish\$4 or reestablishment or re-establishment)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 07:52
S1166	395	S1165 and S1161	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 07:53
S1167	13	S1165 same S1161	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 07:53
S1168	14	S1161 and S1165 and (S1162 or	US-PGPUB;	OR	ON	2019/11/12

		S1163 or BLE)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			07:54
S1169	2930	S1161 and (S1162 or S1163 or BLE)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 07:56
S1170	446	S1161 same (S1162 or S1163 or BLE)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 07:56
S1171	83891	(attempt or attempting or attempt\$4) near4 (reconnect or re-connect or reconnect\$4 or re-connect\$4 or reestablish or reestablishes or reestablish\$4 or reconnection or re-connection or reestablish\$4 or re-establish\$4 or reestablishment or re-establishment or connect\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 07:56
S1172	154	S1171 same S1160	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 07:57
S1173	1	BLE and S1172	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 07:57
S1174	137	S1160 and S1171 and BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 07:57
S1175	446	S1160 same BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 07:58
S1176	4	S1175 and S1171	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2019/11/12 07:58

			EPO; JPO; DERWENT; IBM_TDB			
S1177	290	S1171 same (S1162 or S1163 or BLE)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 07:58
S1178	30	S1177 and S1160	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 07:59
S1179	834	Classic same BLE same Bluetooth	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:00
S1180	18	S1179 and S1161	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:00
S1181	13	S1161 same S1165	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:03
S1182	1592	(select\$4 or choos\$4 or chos\$4 or selecting or select or choose or chose) same S1165	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:03
S1183	16	S1182 same (S1162 or S1163 or BLE)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:04
S1184	4611	(select\$4 or choos\$4 or chos\$4 or selecting or select or choose or chose) near4 (reconnect or re-connect or reconnect\$4 or re-connect\$4 or reestablish or reestablishes or reestablish\$4 or reconnection or re-connection or reestablish\$4 or re-establish\$4 or reestablishment or re-establishment)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:05

S1185	56	(S1184 or S1165) same (S1162 or S1163 or BLE)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:06
S1186	56	S1185 and (S1162 or S1163 or BLE)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:08
S1187	1533	disconnect\$4 near4 (favorites or favorite or preference or preferences or prefer\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:14
S1188	348	(reconnect or re-connect or reconnect\$4 or re-connect\$4 or reestablish or reestablishes or reestablish\$4 or reconnection or reconnection\$4 or reestablish\$4 or reestablishment or re-establishment or connect\$4) near6 S1187	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:15
S1189	8	S1188 and (S1162 or S1163 or BLE)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:15
S1190	26531	(reconnect or re-connect or reconnect\$4 or re-connect\$4 or reestablish or reestablishes or reestablish\$4 or reconnection or reconnection\$4 or reestablish\$4 or reestablishment or re-establishment) near4 disconnect\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:16
S1191	97	S1190 same (S1162 or S1163 or BLE)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:17
S1192	31515	(reconnect or re-connect or reconnect\$4 or re-connect\$4 or reestablish or reestablishes or reestablish\$4 or reconnection or reconnection\$4 or reestablish\$4 or reestablishment or re-establishment) near6 disconnect\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:20
S1193	125	(S1162 or S1163 or BLE) same S1192	US-PGPUB; USPAT;	OR	ON	2019/11/12 08:20

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1194	688	(S1162 or S1163 or BLE) and S1192	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:21
S1195	34	(S1162 or S1163 or BLE) and S1192 and S1165	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:21
S1196	241115	(select\$4 or choos\$4 or chos\$4 or selecting or select or choose or chose or mark or marking) near6 (favorite or preference or prefer\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:25
S1197	241115	(select\$4 or choos\$4 or chos\$4 or selecting or select or choose or chose or mark or marking) near6 (favorite or preference or prefer\$4 or favorites)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:25
S1198	31	(reconnect or re-connect or reconnect\$4 or re-connect\$4 or reestablish or reestablishes or reestablish\$4 or reconnection or reconnection or reestablish\$4 or re-establish\$4 or reestablishment or re-establishment) same disconnect\$4 same S1197	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:26
S1199	13	S1198 and (low-enery or S1162 or S1163 or Bluetooth or BLE)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:27
S1200	260	(reconnect or re-connect or reconnect\$4 or re-connect\$4 or reestablish or reestablishes or reestablish\$4 or reconnection or reconnection or reestablish\$4 or re-establish\$4 or reestablishment or re-establishment) same S1197	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:30
S1201	83	S1200 and (low-enery or S1162 or S1163 or Bluetooth or BLE)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2019/11/12 08:30

			IBM_TDB			
S1202	19	S1200 and (low-enery or S1162 or S1163 or BLE)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:31
S1203	216	(reconnect or re-connect or reconnect\$4 or re-connect\$4 or reestablish or reestablishes or reestablish\$4 or reconnection or reconnection\$4 or re-establish\$4 or reestablishment or re-establishment) and S1197 and BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:32
S1204	2022	(reconnect or re-connect or reconnect\$4 or re-connect\$4 or reestablish or reestablishes or reestablish\$4 or reconnection or reconnection\$4 or re-establish\$4 or reestablishment or re-establishment) same BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:32
S1205	31	S1204 and S1197	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:32
S1206	2986	BLE and S1197	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:33
S1207	493	BLE same S1197	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:33
S1208	115	(BLE same S1197) and (attempt\$4 or reconnect\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:33
S1209	449	(select\$4 or choos\$4 or chos\$4 or selecting or select or choose or chose or mark or marking) same (favorite or preference or prefer\$4 or favorites) same (reconnect\$4 or re-connect\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:35
S1210	9	S1209 same BLE	US-PGPUB; USPAT; USOCR;	OR	ON	2019/11/12 08:35

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1211	17033	(select\$4 or choos\$4 or chos\$4 or selecting or select or choose or chose or mark or marking) same (reconnect\$4 or re-connect\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:36
S1212	161	S1211 same BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:36
S1213	10	S1212 and S1171	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:36
S1214	3090	(S1162 or S1163 or BLE) and S1197	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:37
S1215	493	(S1162 or S1163 or BLE) same S1197	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:37
S1216	2024	(reconnect or re-connect or reconnect\$4 or re-connect\$4 or reestablish or reestablishes or reestablish\$4 or reconnection or reconnection\$4 or reestablish\$4 or reestablishment or re-establishment) same (S1162 or S1163 or BLE)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:37
S1217	95	S1216 and S1171	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:38
S1218	302431	(select\$4 or choos\$4 or chos\$4 or selecting or select or choose or chose or mark or marking) near10 (favorite or preference or prefer\$4 or favorites)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:40

S1219	9336	(reconnect or re-connect or reconnect\$4 or re-connect\$4 or reestablish or reestablishes or reestablish\$4 or reconnection or re-connection or reestablish\$4 or re-establish\$4 or reestablishment or re-establishment) and S1218	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:40
S1220	2675	(reconnect or re-connect or reconnect\$4 or re-connect\$4 or reestablish or reestablishes or reestablish\$4 or reconnection or re-connection or reestablish\$4 or re-establish\$4 or reestablishment or re-establishment or S1218) same BLE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:41
S1221	60	S1219 and S1220	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:41
S1222	40214	(select\$4 or choos\$4 or chos\$4 or selecting or select or choose or chose or favorite or preference or prefer\$4 or favorites) same (reconnect or re-connect or reconnect\$4 or re-connect\$4 or reestablish or reestablishes or reestablish\$4 or reconnection or re-connection or reestablish\$4 or re-establish\$4 or reestablishment or re-establishment)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:43
S1223	568	S1222 same (BLE or S1162 or S1163)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:43
S1224	6958	(select\$4 or choos\$4 or chos\$4 or selecting or select or choose or chose or favorite or preference or prefer\$4 or favorites) near6 (reconnect or re-connect or reconnect\$4 or re-connect\$4 or reestablish or reestablishes or reestablish\$4 or reconnection or re-connection or reestablish\$4 or re-establish\$4 or reestablishment or re-establishment)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:44
S1225	26	S1224 same (BLE or S1162 or S1163)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:44
S1226	10514	(select\$4 or choos\$4 or chos\$4 or selecting or select or choose or chose or favorite or preference or prefer\$4 or favorites or mark or	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2019/11/12 08:45

		marking or mark\$4) near10 (reconnect or re-connect or reconnect\$4 or re-connect\$4 or reestablish or reestablishes or reestablish\$4 or reconnection or re- connection or reestablish\$4 or re- establish\$4 or reestablishment or re-establishment)	EPO; JPO; DERWENT; IBM_TDB			
S1227	47	S1226 same (S1162 or S1163 or BLE)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 08:46
S1228	8297	(beams or beam) near1 (identifier or identification or identif\$4 or ID)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 13:19
S1229	71644	(plurality or plural\$4) near1 (beam or beams)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 13:19
S1230	13	(combined or combine or combining or combin\$4 or sum or summation or sumation or sum\$4) near1 reference near1 signal near1 measurement near1 (value or values)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 13:21
S1231	2377	(Offset or Off-set or Offsets or Off- sets or value or values) same "L13"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 13:26
S1232	13	(Offset or Off-set or Offsets or Off- sets or value or values) same S1230	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 13:26
S1233	5	((Offset or Off-set or Offsets or Off- sets) near1 (value or values)) same S1230	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 13:27
S1234	0	WO2018204863-\$.did.	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2019/11/12 13:30

			EPO; JPO; DERWENT; IBM_TDB			
S1235	2	WO-2018204863-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/12 13:30
S1236	289	dynamic near1 position near1 information	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 12:18
S1237	286	(altitude or altitudes) near1 (band or bands)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 12:19
S1238	3	S1236 same S1237	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 12:19
S1239	36	(altitude or altitudes) same S1236	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 12:19
S1240	470067	(position near1 information) or (dynamic near1 position near1 information)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:01
S1241	7574	(altitude or altitudes) same S1240	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:02
S1242	389	(position near1 information) same (dynamic near1 position)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:04
S1243	34	(altitude or altitudes) same S1242	US-PGPUB; USPAT;	OR	ON	2019/11/13 13:05

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1244	513316	(position near1 information) or (dynamic\$4 near4 position)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:06
S1245	7795	(altitude or altitudes) same S1244	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:07
S1246	480349	(position near1 information) or (dynamic\$4 near1 position)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:07
S1247	7629	(altitude or altitudes) same S1246	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:07
S1248	443	(position near1 information) same (dynamic\$4 near1 position)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:08
S1249	34	(altitude or altitudes) same S1248	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:08
S1250	1013	(position near1 information) same (dynamic\$4 near2 position)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:08
S1251	48	(altitude or altitudes) same S1250	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:09

S1252	2	"20120202430".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:10
S1253	0	S1252 and S1240	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:10
S1254	120690	air-to-ground or (air near1 ground) or ATG	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:12
S1255	101002	air-to-ground or (air near1 to near1 ground) or ATG	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:13
S1256	115	(dynamic\$4 near4 position\$4) and S1255	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:13
S1257	35	(dynamic\$4 near4 position\$4) same S1255	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:13
S1258	344	(dynamic\$4 near4 position\$4) same (altitude or altitudes)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:15
S1259	37	S1255 and S1258	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:18
S1260	2528	(frequency or frequencies) near6 (altitude or altitudes)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/11/13 13:24

			DERWENT; IBM_TDB			
S1261	53	S1255 and S1260	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:24
S1262	592828	(select\$4 or select or chooses or choos\$4 or chose or chos\$4) near6 (frequency or frequencies)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:27
S1263	24	S1260 and S1262 and S1255	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:27
S1264	215	S1262 same ((altitude or altitudes) near6 aircraft)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:30
S1265	38	S1244 and S1264	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:30
S1266	13	S1255 and S1264	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:32
S1267	3817	S1255 and S1262	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:34
S1268	156	S1267 and ((altitude or altitudes) near6 aircraft)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:34
S1269	216	S1260 same S1262	US-PGPUB; USPAT; USOCR;	OR	ON	2019/11/13 13:39

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1270	15	S1269 and S1254	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:40
S1271	1074446	(select\$4 or select or chooses or choos\$4 or chose or chos\$4 or determin\$4) near6 (frequency or frequencies)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:41
S1272	2070	S1271 near10 (altitude or altitudes or aircraft)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:42
S1273	89	S1255 and S1272	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:42
S1274	201	S1272 same ((altitude or altitudes) near6 aircraft)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:44
S1275	43	S1272 and ((altitude or altitudes) near6 aircraft) and S1255	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:44
S1276	11	"20120202430".pn. or "20140004853".pn. or "20110263199".pn. or "20080102812".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:51
S1277	0	(position near4 information) and S1276	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:52
S1278	3	position and S1276	US-PGPUB;	OR	ON	2019/11/13

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			13:54
S1279	9869	position same ((altitude or altitudes) near6 aircraft)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:55
S1280	0	S1276 and S1279	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:55
S1281	4	S1276 and ((altitude or altitudes) near6 aircraft)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:55
S1282	2353	((frequency or frequencies) same ((altitude or altitudes) near6 aircraft)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:56
S1283	130	S1282 and S1255	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:57
S1284	70	S1271 and S1283	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:57
S1285	435	S1271 same ((altitude or altitudes) near6 aircraft)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 13:58
S1286	12	S1271 same ((altitude or altitudes) near6 aircraft) same ((dynamic\$4 or information) near1 position)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2019/11/13 13:59

			IBM_TDB			
S1287	49	S1285 and ((dynamic\$4 or information) near1 position)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 14:00
S1288	22	S1285 and S1255	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 14:04
S1289	9	"20140004853".pn. or "20120202430".pn. or "20080102812".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 14:08
S1290	6	S1289 and (S1254 or S1255)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 14:08
S1291	3	S1289 and (S1254 or S1255) and (position or positions or altitude or altitudes)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 14:09
S1292	0	S1289 and (S1254 or S1255) and ((position or positions or altitude or altitudes) near8 (information or informations))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 14:10
S1293	3	S1289 and (S1254 or S1255) and (position or positions or altitude or altitudes)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 14:10
S1294	3	S1289 and (S1254 or S1255) and ((position or positions or altitude or altitudes) near4 (in-flight or flight or aircraft))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/13 14:11
S1295	1791	(beamforming or beamform\$4 or beam) same ((altitude or altitudes or (altitude near1 band)) near6 (aircraft or flight or in-flight))	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2019/11/14 12:04

			EPO; JPO; DERWENT; IBM_TDB			
S1296	4827	determin\$4 near6 ((altitude or altitudes or (altitude near1 band)) near6 (aircraft or flight or in-flight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 12:05
S1297	543	((frequency or frequencies) near6 ((altitude or altitudes or (altitude near1 band)) near6 (aircraft or flight or in-flight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 12:06
S1298	317	S1295 and S1296	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 12:06
S1299	105	S1295 and S1297	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 12:06
S1300	12	ATG and S1299	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 12:07
S1301	67	ATG and S1295	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 12:07
S1302	2988	((frequency or frequencies) same ((altitude or altitudes or (altitude near1 band)) near6 (aircraft or flight or in-flight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 12:14
S1303	22	S1302 and S1301	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 12:15
S1304	56	((frequency or frequencies) and S1301	US-PGPUB; USPAT;	OR	ON	2019/11/14 12:16

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1305	728342	(determin\$6 or chooses or choose or chose or choses or chos\$4) near6 (frequency or frequencies)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 12:21
S1306	37	S1305 and S1299	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 12:21
S1307	37	S1306 and (aircraft or flight or in- flight)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 12:26
S1308	37	S1306 and ((altitude or altitudes or (altitude near1 band)) near6 (aircraft or flight or in-flight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 12:27
S1309	2988	(frequency or frequencies) same ((altitude or altitudes or (altitude near1 band)) near6 (aircraft or flight or in-flight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 12:28
S1310	37	S1306 and S1309	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 12:28
S1311	102	(altitude near1 band) near6 (aircraft or flight or in-flight)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 12:29
S1312	17	S1295 and S1311	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 12:29

S1313	5	(altitude near1 band) and S1306	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 12:30
S1314	17	(altitude near1 band) same S1295	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 12:31
S1315	22	(beamforming or beamform\$4 or beam) same (altitude near1 band) same (aircraft or flight or in-flight)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 12:31
S1316	102	(altitude near1 band) near6 (aircraft or flight or in-flight)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 12:33
S1317	17	S1295 and S1316	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 12:33
S1318	3091	(beamforming or beamform\$4 or beam) same (altitude or altitudes or (altitude near1 band)) same (aircraft or flight or in-flight)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 12:34
S1319	20	S1316 and S1318	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 12:34
S1320	29	(beamforming or beamform\$4 or beam) same (altitude near1 band)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 12:36
S1321	61617	(aircraft or flight or in-flight) same altitude	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/11/14 12:36

			DERWENT; IBM_TDB			
S1322	26	S1320 and S1321	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 12:36
S1323	25	S1295 and (altitude near1 band)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 12:38
S1324	3091	(beamforming or beamform\$4 or beam) same (altitude or altitudes or (altitude near1 band)) same (aircraft or flight or in-flight)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 12:38
S1325	34	S1324 and (altitude near1 band)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 12:39
S1326	233437	beamforming or beam-forming or (beam near1 forming) or beamform or beam-form or (beam near1 form)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 16:56
S1327	140658	(altitude or altitudes or position or location) near6 (aircraft or flight or in-flight)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 16:57
S1328	287	S1326 same S1327	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 16:58
S1329	90	((altitude or altitudes) near1 band) near6 aircraft	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 16:59
S1330	12	S1329 and S1328	US-PGPUB; USPAT; USOCR;	OR	ON	2019/11/14 16:59

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1331	12	S1329 and S1328	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 16:59
S1332	13	((altitude or altitudes) near1 band) and S1328	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:00
S1333	15	((altitude or altitudes) near1 band) and S1326 and S1327	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:00
S1334	19	((altitude or altitudes) near1 band) and S1326	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:01
S1335	224	((altitude or altitudes) near1 band) and S1327	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:01
S1336	144	((altitude or altitudes) near1 band) same S1327	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:01
S1337	17	S1336 same beam	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:02
S1338	6574	S1327 same beam	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:02
S1339	21	S1336 and S1338	US-PGPUB;	OR	ON	2019/11/14;

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			17:02
S1340	15	S1335 and S1326	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:03
S1341	1	((altitude or altitudes) near1 band) and "20190239134".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:04
S1342	17	((altitude or altitudes) near1 band) near6 (frequency or frequencies)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:06
S1343	28	((altitude or altitudes) near1 band) near10 (frequency or frequencies)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:06
S1344	2529	(altitude or altitudes) near6 (frequency or frequencies)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:07
S1345	22	((altitude or altitudes) near1 band) same S1344	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:07
S1346	90	((altitude or altitudes) near1 band) near6 aircraft	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:09
S1347	50	S1346 and frequency	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2019/11/14 17:09

			IBM_TDB			
S1348	144	((altitude or altitudes) near1 band) same S1327	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:10
S1349	90	S1346 and S1348	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:11
S1350	179	((altitude or altitudes) near4 band) same (frequency or frequencies)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:12
S1351	105	S1350 and S1327	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:13
S1352	49	((altitude or altitudes) near1 band) same (frequency or frequencies)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:14
S1353	28708	(altitude or altitudes or position or location) near1 band	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:15
S1354	98	S1353 near6 aircraft	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:16
S1355	224	((altitude or altitudes) near1 band) and S1327	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:16
S1356	144	((altitude or altitudes) near1 band) same S1327	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2019/11/14 17:16

			EPO; JPO; DERWENT; IBM_TDB			
S1357	73	S1356 and (frequency or frequencies)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:16
S1358	4	((altitude or altitudes) near1 band same S1326	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:19
S1359	29	((altitude or altitudes) near1 band same (S1326 or beam)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:19
S1360	163096	(frequency or frequencies) near10 (S1326 or beam)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:21
S1361	9348	((selects or select\$4 or choos\$4 or chos\$4) near6 (frequency or frequencies)) near10 (S1326 or beam)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:22
S1362	19	S1361 same S1327	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:22
S1363	4	((altitude or altitudes) near1 band and S1361 and S1327	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:23
S1364	227	((altitude or altitudes) near1 band and (S1361 or S1327)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:24
S1365	27	((selects or select\$4 or choos\$4 or chos\$4) near6 (frequency or	US-PGPUB; USPAT;	OR	ON	2019/11/14 17:24

		frequencies)) and S1364	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1366	95	((altitude or altitudes) near1 band) near10 S1327	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:25
S1367	12	((selects or select\$4 or choos\$4 or chos\$4) near6 (frequency or frequencies)) and S1366	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:26
S1368	15603	(basestation or base-station or BS or (base near1 station) or eNodeB or eNode-B or eNB or eN-B or NodeB or Node-B or (Node near1 B)) same S1327	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:28
S1369	80	((altitude or altitudes) near1 band) and S1368	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:29
S1370	55	((altitude or altitudes) near1 band) and S1368 and frequency	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:30
S1371	22	((altitude or altitudes) near6 (frequency or frequencies)) same (altitude near1 band)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:32
S1372	44	((altitude or altitudes) near6 (frequency or frequencies)) and (altitude near1 band)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:32
S1373	54	((altitude or altitudes) near10 (frequency or frequencies)) and (altitude near1 band)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:33

S1374	39	((altitude or altitudes) same (frequency or frequencies)) and ((altitude near1 band) near6 aircraft)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:34
S1375	39	((altitude or altitudes) same (frequency or frequencies)) and ((altitude near1 band) near6 (aircraft or flight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:36
S1376	63	((altitude or altitudes) same (frequency or frequencies)) and ((altitude near1 band) same (aircraft or flight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 17:37
S1377	140658	(altitude or altitudes or position or location) near6 (aircraft or flight or in-flight)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:13
S1378	6626	(beamforming or beam-forming or (beam near1 forming) or beamform or beam-form or (beam near1 form) or beam) same S1377	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:14
S1379	287	(altitude or altitudes) near1 (band or bands)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:15
S1380	102	S1379 near6 (aircraft or flight or in-flight)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:18
S1381	39	(determines or determin\$4 or determine) near6 S1379	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:20
S1382	26	S1381 same (aircraft or flight or in-flight)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/11/14 21:20

			DERWENT; IBM_TDB			
S1383	184	S1379 same (aircraft or flight or in-flight)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:22
S1384	22	S1378 and S1383	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:22
S1385	2987	S1377 same (band or bands)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:23
S1386	524	S1378 and S1385	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:23
S1387	389	S1378 same S1385	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:23
S1388	231	S1378 same S1385 same (frequency or frequencies)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:24
S1389	147	S1378 same S1385 same ((frequency or frequencies) near6 (band or altitude or altitudes))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:24
S1390	287	(beamforming or beam-forming or (beam near1 forming) or beamform or beam-form or (beam near1 form)) same S1377	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:26
S1391	13	S1390 same (band or bands)	US-PGPUB; USPAT; USOCR;	OR	ON	2019/11/14 21:26

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1392	51	S1390 same (frequency or frequencies)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:27
S1393	178	(beamforming or beam-forming or (beam near1 forming) or beamform or beam-form or (beam near1 form) or beam) same ATG	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:32
S1394	14	S1379 and S1393	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:32
S1395	14	(beamforming or beam-forming or (beam near1 forming) or beamform or beam-form or (beam near1 form) or beam) and ATG and S1379	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:33
S1396	4414106	(beamforming or beam-forming or (beam near1 forming) or beamform or beam-form or (beam near1 form) or beam) or ATG or air-to-ground or (air near1 to near1 groud)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:33
S1397	31	S1396 same S1379	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:34
S1398	49	S1379 same (frequency or frequencies)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:35
S1399	2017	(altitude or altitudes) same (frequency or frequencies) same (band or bands)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:37
S1400	18	(beamforming or beam-forming or	US-PGPUB;	OR	ON	2019/11/14;

		(beam near1 forming) or beamform or beam-form or (beam near1 form) or beam) and ATG and S1399	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			21:38
S1401	14	(beamforming or beam-forming or (beam near1 forming) or beamform or beam-form or (beam near1 form)) and ATG and S1399	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:39
S1402	119250	(altitude or altitudes or position or location) same (frequency or frequencies) same (band or bands)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:39
S1403	34	(beamforming or beam-forming or (beam near1 forming) or beamform or beam-form or (beam near1 form)) and ATG and S1402	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:39
S1404	2	"20190239134".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:44
S1405	1	((altitude or altitudes) near1 (band or bands)) and S1404	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:45
S1406	8	(beamforming or beam-forming or (beam near1 forming) or beamform or beam-form or (beam near1 form)) same ((altitude or altitudes) near6 (frequency or frequencies))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:49
S1407	282	(beamforming or beam-forming or (beam near1 forming) or beamform or beam-form or (beam near1 form) or beam) same ((altitude or altitudes) near6 (frequency or frequencies))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:50
S1408	11	(beamforming or beam-forming or (beam near1 forming) or beamform or beam-form or (beam near1 form) or beam) same ((altitude or altitudes) near6 (frequency or frequencies)) same ATG	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2019/11/14 21:50

			IBM_TDB			
S1409	13	S1407 and ATG	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:51
S1410	105	(beamforming or beam-forming or (beam near1 forming) or beamform or beam-form or (beam near1 form)) and ((altitude or altitudes) near6 (frequency or frequencies))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:51
S1411	593082	(select\$4 or choos\$4 or chos\$4) near6 (frequency or frequencies)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:58
S1412	140634	(altitude or altitudes or position or location) near6 (aircraft or flight)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:59
S1413	139	S1411 near10 S1412	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 21:59
S1414	369999	(first or second or secondary or third or plurality or plural) near1 (frequency or frequencies)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 22:00
S1415	6	S1413 same S1414	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 22:01
S1416	4	S1413 same (beamforming or beamform\$4 or beam-form\$4 or beam-forming)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 22:02
S1417	8	S1413 and (beamforming or beamform\$4 or beam-form\$4 or beam-forming)	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2019/11/14 22:02

			EPO; JPO; DERWENT; IBM_TDB			
S1418	713	S1411 same S1412	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 22:03
S1419	183	S1411 same S1412 same (cell or cells or basestation or base-station or (base near1 station) or BS or eNodeB or eNode-B or eNB or eN-B or NodeB or Node-B or (Node near1 B))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 22:04
S1420	36489	(beamforming or beamform\$4 or beam-form\$4 or beam-forming) same (cell or cells or basestation or base-station or (base near1 station) or BS or eNodeB or eNode-B or eNB or eN-B or NodeB or Node-B or (Node near1 B))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 22:06
S1421	6	S1418 and S1420	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 22:07
S1422	57	(beamforming or beamform\$4 or beam-form\$4 or beam-forming) and (cell or cells or basestation or base-station or (base near1 station) or BS) and S1418	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 22:08
S1423	6231	S1411 and S1412	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 22:10
S1424	95	S1411 and S1412 and ATG	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 22:10
S1425	2099	(frequency or frequencies) near10 S1412	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 22:16
S1426	20	(beamforming or beamform\$4 or beam-form\$4 or beam-forming) and	US-PGPUB; USPAT;	OR	ON	2019/11/14 22:17

		(cell or cells or basestation or base-station or (base near1 station) or BS) and S1411 and S1425	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1427	20	(beamforming or beamform\$4 or beam-form\$4 or beam-forming) and S1411 and S1425	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 22:18
S1428	50	(beamforming or beamform\$4 or beam-form\$4 or beam-forming) and S1425	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 22:18
S1429	290861	(frequency or frequencies) near6 (altitude or altitudes or position or location)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 22:21
S1430	24070	S1429 same (S1412 or S1411)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 22:21
S1431	930	S1430 and S1412 and S1411	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 22:21
S1432	1891	S1429 same S1412	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 22:22
S1433	191	S1429 same S1412 same S1411	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 22:22
S1434	7	(beamforming or beamform\$4 or beam-form\$4 or beam-forming) and S1433	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 22:22

S1435	41	(beamforming or beamform\$4 or beam-form\$4 or beam-forming) and S1432	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 22:23
S1436	29	ATG and S1432	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 22:24
S1437	2	"20070161347".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 22:27
S1438	1	S1437 and (beamforming or beamform\$4 or beam-form\$4 or beam-forming or beam)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 22:27
S1439	1	S1438 and S1436	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 22:30
S1440	1	S1438 and S1436 and S1412	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/14 22:31
S1441	0	loss near1 sensitive near1 (congestion or congest\$4) near1 control\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/18 09:06
S1442	0	loss near1 sensitive near1 (congestion or congest\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/18 09:06
S1443	0	loss near1 (sensitive or insensitive) near1 (congestion or congest\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/11/18 09:08

			DERWENT; IBM_TDB			
S1444	61	(loss near4 (sensitive or insensitive)) near4 (congestion or congest\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/18 09:08
S1445	14	S1444 same TCP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/18 09:09
S1446	213	(loss near4 (sensitive or insensitive)) same TCP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/18 09:10
S1447	105	(loss near4 (sensitive or insensitive)) near1 (congestion or congest\$6 or control\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/18 09:17
S1448	0	S1443 same TCP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/18 09:17
S1449	0	S1443 and TCP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/18 09:18
S1450	294	(loss near4 (sensitive or insensitive)) near4 (congestion or congest\$6 or control\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/18 09:18
S1451	29	S1450 same TCP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/18 09:18
S1452	724902	(block or blocking or block\$4) near6 (packet or transmission or transmit\$4 or transmitting)	US-PGPUB; USPAT; USOCR;	OR	ON	2019/11/18 13:33

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1453	1	((congestion or congest\$4) near1 information) same ((characteristic near1 information) near4 (application or applications))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/18 13:35
S1454	3	((congestion or congest\$4) near1 information) same (characteristic near1 information) same (application or applications)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/18 13:44
S1455	8	"20150009826".pn. or "20120051216".pn. or "20140177535".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/18 13:51
S1456	6593	(frequency near1 bandwidth near1 information) or (transmission near1 rate near1 information) or (buffering near1 permission near1 time near1 information) or (packet near1 transmission near1 (priority or priorities))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 08:25
S1457	48	whether near4 (block near4 (packet near1 transmission))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 08:27
S1458	2	S1457 same S1456	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 08:28
S1459	6593	(frequency near1 bandwidth near1 information) or (transmission near1 rate near1 information) or (buffering near1 permission near1 time near1 information) or (packet near1 transmission near1 (priority or priorities))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 08:31
S1460	83	whether near4 (block near4 (packet near1 (transmission or transmit or transmitting)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 08:43
S1461	2	S1460 same S1459	US-PGPUB;	OR	ON	2019/11/19;

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			08:43
S1462	596	(loss or lossing or lossy) near1 insensitive	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 12:04
S1463	23971	(congestion or congest\$4) near1 control\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 12:53
S1464	0	(latency or latencies) same S1462 same S1463	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 12:55
S1465	3	S1462 same S1463	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 12:55
S1466	5	S1462 near4 control\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 12:57
S1467	0	S1466 same congest\$4 same latency	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 12:58
S1468	0	S1462 same congest\$4 same latency	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 12:58
S1469	31	S1462 same (latency or delay)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2019/11/19 12:58

			IBM_TDB			
S1470	4	S1462 same (latency or delay) same (congestion or congest\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 12:59
S1471	0	S1462 near1 (congestion or congest\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 13:00
S1472	2	S1462 near4 (congestion or congest\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 13:00
S1473	3	S1462 same (congestion or congest\$4) same TCP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 13:01
S1474	2	S1462 near1 (control\$4 or control)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 13:03
S1475	8	S1462 near6 (control\$4 or control)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 13:03
S1476	36788	TCP near1 (connections or connection)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 13:04
S1477	0	S1462 same S1476	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 13:04
S1478	0	S1462 and S1476	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2019/11/19 13:04

			EPO; JPO; DERWENT; IBM_TDB			
S1479	179	S1476 same (latency or latencies) same (acknowledgement\$1 or acknowledgment\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 13:05
S1480	0	S1462 and S1479	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 13:05
S1481	123	(loss or lossing or lossy or insensitive) and S1479	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 13:06
S1482	27	(loss or lossing or lossy or insensitive) same S1479	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 13:06
S1483	2470	(acknowledgement\$1 or acknowledgment\$1) near1 (protocol or protocols)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 13:10
S1484	3552	(acknowledgement\$1 or acknowledgment\$1 or ACKs or ACK) near1 (protocols or protocol)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 13:10
S1485	0	S1484 same S1462	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 13:10
S1486	2	S1484 and S1462	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 13:11
S1487	2	(acknowledgement\$1 or acknowledgment\$1 or ACKs or ACK)	US-PGPUB; USPAT;	OR	ON	2019/11/19 13:11

		same S1462	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1488	2	(acknowledgement\$1 or acknowledgment\$1 or ACKs or ACK or NAK or NAKs) same S1462	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 13:12
S1489	3	S1462 near6 TCP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 13:14
S1490	3	"20130070599".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 14:41
S1491	1	(congestion or congest\$4) and S1490	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 14:42
S1492	2	"20180183718".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/19 15:46
S1493	44669	device-to-device or D2D	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/20 11:03
S1494	6	(re-configure or re-configur\$4 or reconfigur\$4 or reconfigure or reconfiguring) near6 (wireless near1 access\$4 near1 interface\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/20 11:04
S1495	0	S1494 same S1493	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/20 11:04

S1496	3	S1494 and S1493	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/20 11:04
S1497	13608	(transmitter near1 (identification or identifier or identifiers or ID or identifier)) or TxID	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/20 13:23
S1498	1021	S1497 near1 (codes or code)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/20 13:23
S1499	2	(tier or tiers) same S1498 same (generator near1 polynomial)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/20 13:24
S1500	13	(loss\$4 near1 sensitive) near6 (loss near1 insensitive)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 16:46
S1501	2955	(loss\$4 near1 sensitive) OR (loss near1 insensitive)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 16:48
S1502	36	whether near6 S1501	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 16:49
S1503	31	(acknowledgement or acknowledgment or ACK or ACKs) same S1501	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 16:51
S1504	9	S1503 same TCP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/11/21 16:51

			DERWENT; IBM_TDB			
S1505	0	(acknowledgement or acknowledgment or ACK or ACKs) same S1502	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 16:53
S1506	0	TCP same S1502	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 16:53
S1507	10	TCP and S1502	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 16:53
S1508	2912154	(latency or delay or delaying) samne S1502	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 16:54
S1509	2912151	(latency or delay or delaying) samne S1502 same TCP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 16:54
S1510	37352	(acknowledgement or acknowledgment or ACK or ACKs) same S1509	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 16:55
S1511	1233	(reduce near6 (acknowledgement or acknowledgment or ACK or ACKs)) same S1509	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 16:55
S1512	422135	latency samne S1502 same TCP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 16:56
S1513	33	whether near4 (loss\$4 near1 sensitive)	US-PGPUB; USPAT; USOCR;	OR	ON	2019/11/21 16:57

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1514	422135	latency same S1513 same TCP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 16:57
S1515	33	(whether near4 (loss\$4 near1 sensitive))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 16:57
S1516	0	latency same S1515	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 16:58
S1517	0	TCP same S1515	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 16:58
S1518	9	TCP and S1515	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 16:58
S1519	36810	TCP near1 (connection or connections)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 16:59
S1520	596	loss-insensitive or (loss near1 insensitive)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 17:00
S1521	0	whether near6 S1520	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 17:00
S1522	0	S1519 same S1520	US-PGPUB;	OR	ON	2019/11/21

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			17:00
S1523	5	TCP same S1520	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 17:01
S1524	3	(acknowledgement or acknowledgements or acknowledgment or acknowledgments or ACK or ACKs) and S1523	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 17:02
S1525	7	S1520 near4 (control or controlling or control\$4 or congestion or congest\$4 or congestions)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 17:05
S1526	11	S1520 same (congestion or congest\$4 or congestions)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 17:07
S1527	31	S1520 same (delay or latency)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 17:10
S1528	0	(acknowledgement or acknowledgements or acknowledgment or acknowledgments or ACK or ACKs) same S1527	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 17:10
S1529	5	S1520 same TCP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 17:11
S1530	6	S1526 and TCP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2019/11/21 17:12

			IBM_TDB			
S1531	4	(acknowledgement or acknowledgements or acknowledgment or acknowledgments or ACK or ACKs) and S1530	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 17:13
S1532	0	bottleneck same S1520	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 17:14
S1533	5	lossy same S1520	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 17:14
S1534	12	BBR near4 (congestion or congest or congest\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 17:16
S1535	0	S1520 and S1534	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 17:16
S1536	1	insensitive and S1534	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 17:16
S1537	14	((acknowledgement or acknowledgements or acknowledgment or acknowledgments or ACK or ACKs) same TCP) and S1520	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 17:18
S1538	0	BBR and TCP and S1520	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 17:21
S1539	5	(TCP same (congestion or congestions or congest\$4 or congeste or congestes or congest)) and S1520	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2019/11/21 17:22

			EPO; JPO; DERWENT; IBM_TDB			
S1540	7165	(reduce or reducing or reduces or reduce) near6(acknowledgement or acknowledgements or acknowledgment or acknowledgments or ACK or ACKs)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 19:56
S1541	41	S1540 near6 S1519	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 19:57
S1542	29	S1541 same (delay or delaying or delayed or delay\$4 or latency or latencies)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 19:58
S1543	0	S1542 same (loss or loss\$4 or lossy)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 19:59
S1544	2	S1542 same (TCP near4 control\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 19:59
S1545	99	S1540 same S1519	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 20:00
S1546	54	S1545 same (delay or delaying or delayed or delay\$4 or latency or latencies)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 20:00
S1547	1284	(reduce or reducing or reduces or reduce) near6 ((total or number) near4 (acknowledgement or acknowledgements or acknowledgment or acknowledgments or ACK or ACKs))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 20:01
S1548	55	S1547 same S1519	US-PGPUB; USPAT;	OR	ON	2019/11/21 20:01

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1549	0	S1547 same S1519 same BBR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 20:02
S1550	0	S1548 and BBR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 20:02
S1551	0	S1548 and S1520	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 20:02
S1552	19	S1548 same (delay or delaying or delayed or delay\$4 or latency or latencies)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 20:03
S1553	84	S1547 near6 (TCP or connection or connections)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 20:04
S1554	16	S1547 same (TCP or connection or connections) same (loss or insensitive or sensitive or lossy)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 20:05
S1555	12	S1554 and (congestion or congest\$4 or congestions)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 20:12
S1556	1	S1547 same ((TCP or connection or connections) near6 (loss or insensitive or sensitive or lossy))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 20:15

S1557	0	S1547 near6 if	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 20:15
S1558	0	S1547 same if	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 20:16
S1559	3	TCP near6 S1520	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 20:16
S1560	0	(reduce or reducing or reduces or reduce or ((total or number) near4 (acknowledgement or acknowledgements or acknowledgment or acknowledgments or ACK or ACKs))) and S1559	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 20:17
S1561	3	(reduce or reducing or reduces or reduce or acknowledgement or acknowledgements or acknowledgment or acknowledgments or ACK or ACKs) and S1559	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 20:17
S1562	0	S1540 and S1520	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 20:18
S1563	2910	loss-insensitive or (loss near1 insensitive) or (loss near1 sensitive) or loss-sensitive	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 20:18
S1564	0	(S1540 or S1547) same S1563	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 20:19
S1565	4	(S1540 or S1547) and S1563	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/11/21 20:19

			DERWENT; IBM_TDB			
S1566	31	(acknowledgement or acknowledgements or acknowledgment or acknowledgments or ACK or ACKs) same S1563	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 20:20
S1567	9	(acknowledgement or acknowledgements or acknowledgment or acknowledgments or ACK or ACKs) same S1563 same TCP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 20:21
S1568	4	(S1540 or S1547) and S1563	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 20:22
S1569	504	(S1540 or S1547) same (congestion or congest\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 20:23
S1570	2	S1569 and S1563	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/21 20:23
S1571	2910	loss-insensitive or (loss near1 (insensitive or sensitive)) or loss-sensitive	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 08:22
S1572	28958	number near4 (acknowledgements or acknowledgement or acknowledgment or acknowledgments or ACK or ACKs)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 08:23
S1573	18123	(limiting or limit\$4 or eliminate or eliminating or eliminat\$4 or reduce or reducing or reduc\$4) near6 (acknowledgements or acknowledgement or acknowledgment or acknowledgments or ACK or ACKs)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 08:24
S1574	0	S1571 same (S1572 or S1573)	US-PGPUB; USPAT; USOCR;	OR	ON	2019/11/22 08:26

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1575	41	S1571 and (S1572 or S1573)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 08:26
S1576	9	(acknowledgements or acknowledgement or acknowledgment or acknowledgments or ACK or ACKs) same S1571 same TCP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 08:43
S1577	31	(acknowledgements or acknowledgement or acknowledgment or acknowledgments or ACK or ACKs) same S1571	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 08:43
S1578	19	S1577 and TCP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 08:44
S1579	31	(acknowledgements or acknowledgement or acknowledgment or acknowledgments or ACK or ACKs or NAK) same S1571	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 08:44
S1580	19	S1579 and TCP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 08:45
S1581	122	packet near6 S1571	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 09:03
S1582	14	S1581 same TCP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 09:03
S1583	354	((space or spaced) near6 (period	US-PGPUB;	OR	ON	2019/11/22

		near1 time)) same (arrival or arriv\$4)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			09:08
S1584	0	S1571 and S1583	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 09:08
S1585	4	((space or spaced) near6 (period near1 time)) and S1571	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 09:09
S1586	48351	((space or spaced) near6 (period near1 time)) or SIFS	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 09:10
S1587	12	(acknowledgements or acknowledgement or acknowledgment or acknowledgments or ACK or ACKs or NAK) and S1571 and S1586	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 09:10
S1588	4264	packet near1 arrival near1 time	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 09:12
S1589	2	S1588 and S1571	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 09:12
S1590	49	(packet near1 arrival) and S1571	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 09:13
S1591	23	(acknowledgements or acknowledgement or acknowledgment or acknowledgments or ACK or ACKs or NAK) and S1590	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2019/11/22 09:13

			IBM_TDB			
S1592	105	S1571 same (congestion or congestions or congests or congest\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 09:17
S1593	22	S1571 same (congestion or congestions or congests or congest\$4) same TCP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 09:17
S1594	10	S1571 near4 (congestion or congest or congesting or congestes or congeste or congest\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 11:27
S1595	38362	((transmission near1 control near1 protocol) or TCP) near1 (connection or connections)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 11:40
S1596	4355	(loss-insensitive or (loss near1 (insensitive or sensitive)) or loss-sensitive or lossless or loss) same (TCP or (transmission near1 control near1 protocol)) same (congestion or congestions or congest\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 11:51
S1597	687	(loss-insensitive or (loss near1 (insensitive or sensitive)) or loss-sensitive or lossless or loss) same (TCP or (transmission near1 control near1 protocol)) same (congestion or congestions or congest\$4) same latency	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 11:52
S1598	192	S1597 same S1595	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 11:52
S1599	139	(acknowledgements or acknowledgement or acknowledgment or acknowledgments or ACK or ACKs or NAK) same S1598	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 11:53
S1600	2958	whether near6 (arrival near1 time)	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2019/11/22 12:22

			EPO; JPO; DERWENT; IBM_TDB			
S1601	3199	whether near6 (arrival near1 (time or packet))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 12:22
S1602	0	S1571 same S1601	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 12:22
S1603	1	S1571 same (arrival near1 (time or packet))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 12:23
S1604	18	TCP near6 S1571	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 12:23
S1605	6882	(packet or frame or packets or frames) near1 (arrival or arriv\$4) near1 (time or timing or time\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 12:42
S1606	221	(analyze or analyz\$4 or whether) near6 S1605	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 12:43
S1607	248	(acknowledgements or acknowledgement or acknowledgment or acknowledgments or ACK or ACKs or NAK) same S1605	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 12:43
S1608	5	(acknowledgements or acknowledgement or acknowledgment or acknowledgments or ACK or ACKs or NAK) and S1605 and S1571	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 12:44
S1609	2	S1606 and S1571	US-PGPUB; USPAT;	OR	ON	2019/11/22 12:45

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1610	57372	(packet or frame or packets or frames) near1 (arrival or arriv\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 12:45
S1611	2742	(analyze or analyz\$4 or whether) near6 (S1605 or S1610)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 12:46
S1612	6	S1571 and S1611	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 13:11
S1613	26	S1611 same S1595	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 13:12
S1614	0	(acknowledgements or acknowledgement or acknowledgment or acknowledgments or ACK or ACKs or NAK) same S1613	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 13:13
S1615	118	(acknowledgements or acknowledgement or acknowledgment or acknowledgments or ACK or ACKs or NAK) same S1611	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 13:13
S1616	22	S1615 and S1595	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 13:14
S1617	46	S1606 and S1595	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 13:14

S1618	3	(acknowledgements or acknowledgement or acknowledgment or acknowledgments or ACK or ACKs or NAK) same S1606	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 13:15
S1619	7	S1606 same TCP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 13:15
S1620	30	(analyze or analyz\$4 or whether) same S1605 same TCP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 13:17
S1621	14	((analyze or analyz\$4 or whether) near6 (packets or packet)) same S1605 same TCP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 13:21
S1622	9	(acknowledgements or acknowledgement or acknowledgment or acknowledgments or ACK or ACKs or NAK) and S1621	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 13:24
S1623	124555	(decrease or decreas\$4 or improv\$4 or reduc\$4) near4 latency	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 15:12
S1624	1	S1623 same S1571 same (congestion or congest\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 15:13
S1625	115357	(reducing or reduce or reduc\$4 or improve or improv\$4) near4 latency	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 15:21
S1626	10289	(reducing or reduce or reduc\$4 or improve or improv\$4) near4 (acknowledgements or acknowledgement or acknowledgment or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/11/22 15:22

		acknowledgments or ACK or ACKs or NAK)	DERWENT; IBM_TDB			
S1627	10303	(reducing or reduce or reduc\$4 or improve or improv\$4 or suppress\$4) near4 (acknowledgements or acknowledgement or acknowledgment or acknowledgments or ACK or ACKs or NAK)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 15:22
S1628	14423	(reducing or reduce or reduc\$4 or improve or improv\$4 or suppress\$4) near6 (acknowledgements or acknowledgement or acknowledgment or acknowledgments or ACK or ACKs or NAK)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 15:23
S1629	0	S1628 same S1571	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 15:23
S1630	4	S1628 and S1571	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 15:23
S1631	98	S1625 and S1571	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 15:24
S1632	29	S1625 same S1571	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 15:24
S1633	24595	(packets or packet or frame or frames) near4 (arrival or arriv\$4) near4 (times or time or timing)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 19:39
S1634	22901	(spaced or spaces or spac\$4) near4 (period near4 (time or timing or times))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 19:40
S1635	1	S1633 near10 S1634	US-PGPUB; USPAT; USOCR;	OR	ON	2019/11/22 19:41

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1636	1167	S1633 near6 (period\$4 near1 (time or timing or times))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 19:42
S1637	35	whether near6 S1636	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 19:42
S1638	54621	((transmission near1 control near1 protocol) or TCP) near4 (packet or packets)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 19:43
S1639	2646	S1638 near10 (loss\$4 or loss or loss-insensitive or (loss near1 insensitive) or loss-sensitive or (loss near1 sensitive))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 19:44
S1640	0	S1637 same S1639	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 19:44
S1641	3	S1636 same S1639	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 19:45
S1642	30	S1633 same S1639	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 19:46
S1643	2287	(reduce or reducing or limit\$4 or limit) near6 ((total or number) near4 (acknowledgement or acknowledgements or acknowledgment or acknowledgments or ACKs or ACK or NAK or NAKs))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 19:48
S1644	182	S1639 and S1643	US-PGPUB;	OR	ON	2019/11/22

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			19:49
S1645	0	S1639 same S1643	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 19:49
S1646	51	S1638 same S1643	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 19:49
S1647	82899	(TCP or packets or packet) near10 (loss\$4 or loss or loss-insensitive or (loss near1 insensitive) or loss- sensitive or (loss near1 sensitive))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 19:50
S1648	42	S1647 same S1643	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 19:50
S1649	0	S1647 same S1643 same S1633	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 19:50
S1650	0	S1648 and S1633	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 19:51
S1651	14278	(reduce or reducing or limit\$4 or limit) near6 (acknowledgement or acknowledgements or acknowledgment or acknowledgments or ACKs or ACK or NAK or NAKs)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 19:51
S1652	19	S1633 same S1651	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2019/11/22 19:51

			IBM_TDB			
S1653	352	(analyzing or analyzes or analyz\$4 or analysis) near6 S1633	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 19:55
S1654	0	S1653 same S1639	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 19:55
S1655	2	S1653 and S1639	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 19:55
S1656	2320	S1633 same (period\$4 near1 (time or timing or times))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 19:58
S1657	11	S1656 same S1647 same TCP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 19:59
S1658	104698	((transmission near1 control near1 protocol) or TCP) near4 (packet or packets or connections or connection)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 20:01
S1659	50	S1658 same S1656	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 20:02
S1660	3	S1653 and S1659	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 20:02
S1661	21	S1659 and S1647	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2019/11/22 20:03

			EPO; JPO; DERWENT; IBM_TDB			
S1662	729	whether near6 S1633	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 20:03
S1663	58	S1662 same S1656	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 20:03
S1664	25	S1663 and S1647	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 20:04
S1665	134	S1656 same S1647	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 20:05
S1666	11	S1656 same S1647 same TCP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 20:05
S1667	11	S1656 same S1647 same TCP same loss\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 20:08
S1668	7444	(packets or packet or frame or frames) near1 ((arrival or arriv\$4) near1 (times or time or timing))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 20:09
S1669	473	S1668 same (period\$4 near1 (time or timing or times))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 20:10
S1670	26	S1668 same (period\$4 near1 (time or timing or times)) same S1647	US-PGPUB; USPAT;	OR	ON	2019/11/22 20:10

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1671	1	S1651 and S1669	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 20:12
S1672	2	S1670 same (acknowledgement or acknowledgements or acknowledgment or acknowledgments or ACKs or ACK or NAK or NAKs)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 20:13
S1673	6	"20170332279".pn. or "20160182387".pn. or "20170195231".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 20:30
S1674	4	"20150156129".pn. or "20160156534".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 20:31
S1675	1	S1674 and (acknowledgement or acknowledgements or acknowledgment or acknowledgments or ACKs or ACK or NAK or NAKs)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 20:32
S1676	2	(S1633 or S1668) and S1674	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 20:33
S1677	163702	((transmission near1 control near1 protocol) or TCP) near1 (control or control\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 20:36
S1678	489	S1677 near6 (loss\$4 or loss or loss-insensitive or (loss near1 insensitive) or loss-sensitive or (loss near1 sensitive))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 20:37

S1679	62	S1678 same (acknowledgement or acknowledgements or acknowledgment or acknowledgments or ACKs or ACK or NAK or NAKs)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 20:37
S1680	14	S1651 and S1678	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 20:38
S1681	751	S1651 same (loss\$4 or loss or loss-insensitive or (loss near1 insensitive) or loss-sensitive or (loss near1 sensitive))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 20:40
S1682	6	S1681 and S1678	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 20:40
S1683	83	S1643 same (loss\$4 or loss or loss-insensitive or (loss near1 insensitive) or loss-sensitive or (loss near1 sensitive))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 20:42
S1684	20	S1643 same (loss\$4 or loss or loss-insensitive or (loss near1 insensitive) or loss-sensitive or (loss near1 sensitive)) same TCP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 20:45
S1685	11	"9294409".pn. or "7698453".pn. or "8717871".pn. or "8218443".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 21:10
S1686	3	S1685 and S1633	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 21:11
S1687	2	S1685 and S1633 and S1647	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/11/22 21:11

			DERWENT; IBM_TDB			
S1688	0	S1685 and S1643	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 21:12
S1689	0	S1685 and (loss-insensitive or (loss near1 insensitive) or loss-sensitive or (loss near1 sensitive))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 21:12
S1690	0	S1685 and S1669	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 21:13
S1691	0	S1685 and S1668	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/22 21:13
S1692	31	(beams or beam or beamforming or beamform\$4) near1 (selection or select\$4 or choose or chose) near1 (protocol or protocols)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 21:28
S1693	406710	(signal\$4 near1 (quality or qualities)) or (signal near1 noise near1 ratio) or SNR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 21:29
S1694	0	(mobility or (change near1 (position or distance)) or positioning) same S1692 same S1693	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 21:30
S1695	0	(mobility or position or distance or positioning) same S1692 same S1693	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 21:30
S1696	11644	(mobility or (change near1 (position or distance)) or positioning) same S1693	US-PGPUB; USPAT; USOCR;	OR	ON	2019/11/23 21:31

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1697	72	S1696 same ((beams or beam or beamforming or beamform\$4) near4 (selection or select\$4 or choose or chose))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 21:31
S1698	14	(mobility or position or distance or positioning) and S1692	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 21:36
S1699	1203408	(mobility or (change near1 (position or distance)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 21:40
S1700	3	(S1699 or S1693) same S1692	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 21:40
S1701	0	S1700 and S1699 and S1693	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 21:41
S1702	3	(mobility or position or distance or positioning) and S1700	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 21:41
S1703	0	((measurement or measure or measur\$4) near1 resource\$1) same S1692	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 21:43
S1704	8	(measurement or measure or measur\$4) same S1692	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 21:44
S1705	0	WO2017214969-\$.did.	US-PGPUB;	OR	ON	2019/11/23

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			21:46
S1706	2	WO-2017214969-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 21:46
S1707	4	"20190253108".pn. or "20180242273".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 21:48
S1708	3	((mobility or (change near1 (position or distance)) or positioning or movement) or S1693) same S1692	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 21:49
S1709	2	((mobility or (change near1 (position or distance)) or positioning or movement) or S1693) and S1707	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 21:50
S1710	2	((mobility or (change near1 (position or distance)) or positioning or movement) or S1693) and S1707 and S1692	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 21:51
S1711	37909	(beams or beam or beamforming or beamform\$4) near1 (selection or select\$4 or choose or chose)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 21:53
S1712	685	S1711 near1 (protocols or patterns)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 21:53
S1713	76	((mobility or (change near1 (position or distance)) or positioning or movement) or S1693) same S1712	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2019/11/23 21:53

			IBM_TDB			
S1714	1	((mobility or (change near1 (position or distance)) or positioning or movement) same S1693) same S1712	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 21:54
S1715	537047	(signal\$4 near1 (quality or qualities)) or (signal near1 noise near1 ratio) or SNR or (signal-to-noise near1 ratio)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 21:56
S1716	3416	(mobility or (change near1 (position or distance)) or positioning or movement) near6 S1715	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 21:58
S1717	6	S1711 same S1716	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 21:58
S1718	3	S1707 and S1692	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 21:59
S1719	3	S1707 and S1692 and protocols	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 22:00
S1720	31	S1692 and protocols	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 22:02
S1721	21	beam near1 (selection or management) near1 protocols	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 22:12
S1722	25615	(selection or choose or chose) near4 (protocol or protocols)	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2019/11/23 22:12

			EPO; JPO; DERWENT; IBM_TDB			
S1723	13	S1722 and S1721	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 22:13
S1724	13	S1720 and S1721	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 22:13
S1725	847	(repeated or repeat\$4) near1 (occasions or occasion)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 22:17
S1726	0	S1721 and S1725	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 22:17
S1727	21	beam near1 (selection or management) near1 protocol	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 22:17
S1728	0	((beams or beam or beamforming or beamform\$4) near4 (selection or select\$4 or choose or chose)) same S1725	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 22:20
S1729	31	(beams or beam) near1 (selection or selecting or select\$4 or choose or choos\$4 or chose or chos\$4) near1 (protocol or protocols)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 22:39
S1730	112244	(mobility or distance or position or positioning or movement) same (((signal or signaling) near1 (quality or qualities)) or signal-to-noise or (signal near1 noise) or SRN or CSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 22:56
S1731	31	S1729 or "20190253108".pn.	US-PGPUB; USPAT;	OR	ON	2019/11/23 22:57

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1732	37	S1729 or "20190253108".pn. or "20180242273".pn. or "20180192411".pn. or "20180205483".pn. or "20180375558".pn. or "20170264357".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 22:58
S1733	31	S1732 and S1731	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 22:58
S1734	5	S1733 and S1730	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 22:59
S1735	31	S1729 or "20190253108".pn. or "20190274127".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 23:00
S1736	31	S1735 and protocols	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 23:00
S1737	1	(mobility or distance or position or positioning or movement) same S1735	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 23:01
S1738	4	((signal or signaling) near1 (quality or qualities)) or signal-to-noise or (signal near1 noise) or SRN or CSI) same S1735	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/23 23:02
S1739	208596	((tracking near1 area) near1 (identifier or identification or identif\$4 or ID)) OR TAI	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 19:39

S1740	183	(allowed or allow\$4) near1 (tracking near1 area)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 19:40
S1741	137	(forbidden or forbid\$4) near1 (tracking near1 area)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 19:41
S1742	7	S1740 same S1741	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 19:41
S1743	9	S1740 and S1741 and S1739	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 19:46
S1744	1142	(allowed or allow\$4) near1 ((tracking near1 area) or TA)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 19:49
S1745	206	(forbidden or forbid\$4) near1 ((tracking near1 area) OR TA)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 19:49
S1746	114	S1745 near1 list\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 19:49
S1747	57	S1746 and S1739	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 19:50
S1748	19	S1746 and S1739 and S1744	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/11/24 19:50

			DERWENT; IBM_TDB			
S1749	19	(remove or removing or remov\$4 or deletes or delete or delet\$4) near6 (TA or TAI) near6 S1745	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 19:52
S1750	39786	(remove or removing or remov\$4 or deletes or delete or delet\$4 or update or updat\$4 or modif\$4 or adjust\$4 or change or chang\$4) near6 (TA or TAI or (tracking near1 area))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 19:55
S1751	69	S1750 same S1745	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 19:56
S1752	1198	(allowed or allow\$4) near1 (TA or TAI or (tracking near1 area))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 19:56
S1753	214	(forbidden or forbid\$4) near1 (TA or TAI or (tracking near1 area))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 19:56
S1754	121	S1753 near1 (list or lists)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 19:57
S1755	55	S1750 same S1754	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 19:57
S1756	1685	(allowed or allow\$4 or accept\$4) near1 (TA or TAI or (tracking near1 area))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 19:57
S1757	21	S1755 and S1756	US-PGPUB; USPAT; USOCR;	OR	ON	2019/11/24 19:57

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1758	6	(maintain or maintaining or maintain\$4) near6 S1754	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 20:04
S1759	22	(maintain or maintaining or maintain\$4 or update or updating or adjust\$4 or change or chang\$4 or modify or modif\$4) near6 S1754	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 20:16
S1760	26	emergency same S1753	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 20:23
S1761	218	(forbidden or forbid\$4 or not-allowed or non-allow\$4) near1 (TA or TAI or (tracking near1 area))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 20:29
S1762	8	match\$4 near6 S1761	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 20:30
S1763	5	"20140092871".pn. or "20140295837".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 20:39
S1764	2	S1762 and S1763	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 20:39
S1765	38960	emergency near1 service	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 20:41
S1766	26	(emergency near1 (service or	US-PGPUB;	OR	ON	2019/11/24

		services)) and S1761	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			20:42
S1767	26	emergency same S1753	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 20:46
S1768	21610	updat\$4 near1 command\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 20:55
S1769	438	service near1 area near1 list\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 20:55
S1770	35	S1768 same S1769	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 20:55
S1771	2	S1761 and S1770	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 20:56
S1772	78	S1769 same updat\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 20:56
S1773	2	S1761 and S1772	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 20:56
S1774	3	S1769 same S1761	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2019/11/24 20:57

			IBM_TDB			
S1775	6	S1769 and S1761	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 20:57
S1776	4114	register\$4 near6 emergency	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 20:58
S1777	4	S1753 and S1776	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 20:59
S1778	221	((forbidden or forbid\$4) near1 (TA or TAI or ((track or tracking) near1 area))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 21:02
S1779	149804	(registration or register\$4) near4 request\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 21:03
S1780	2	S1778 same S1779	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 21:04
S1781	33	S1778 and S1779	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/24 21:04
S1782	862891	((tracking or track\$4) near1 area) or TA	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:10
S1783	8031	((tracking or track\$4) near1 area) or TA) near1 (ID or identifier or identification or identity or identif\$4)	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2019/11/25 08:11

			EPO; JPO; DERWENT; IBM_TDB			
S1784	211257	TAI or TA-ID or S1783	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:12
S1785	1290	S1784 near1 (list\$1 or list)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:12
S1786	28	(forbidden or forbid\$4 or forbad or forbade or prohibit\$4 or banned) near1 S1785	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:13
S1787	3803	(forbidden or forbid\$4 or forbad or forbade or prohibit\$4 or banned) near1 list	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:15
S1788	50	S1787 same S1784	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:15
S1789	700	(maintain\$4 or add\$4 or adding or removing or remov\$4 or resetting or reset\$4 or re-set\$4) near6 S1787	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:16
S1790	14	S1789 same S1784	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:17
S1791	149804	(registration or register\$4) near4 request\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:22
S1792	0	S1791 same S1788	US-PGPUB; USPAT;	OR	ON	2019/11/25 08:22

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1793	43	S1791 same S1787	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:22
S1794	4	S1793 and S1784	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:22
S1795	116	(TAI or TA-ID) same S1791	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:24
S1796	53	(forbidden or forbid\$4 or forbad or forbade or prohibit\$4 or banned) near1 (S1785 or S1784)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:25
S1797	2	S1795 and S1796	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:25
S1798	42	(TAI or TA-ID) and S1796	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:25
S1799	40	(TAI or TA-ID) same S1796	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:25
S1800	5	(TAI or TA-ID) same emergency same S1796	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:27

S1801	276	(forbidden or forbid\$4 or forbad or forbade or prohibit\$4 or banned) near1 (TAI or TA-ID or S1783 or S1782)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:30
S1802	4	(5G or NR) same S1801	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:30
S1803	48	(5G or NR) and S1801	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:31
S1804	581	(forbidden or forbid\$4 or forbad or forbade or prohibit\$4 or banned) near4 (TAI or TA-ID or S1783 or S1782)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:33
S1805	5	(5G or NR) same S1804	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:33
S1806	353	(5G or NR) near4 (TAI or TA-ID or S1783 or S1782)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:34
S1807	5	S1806 and S1801	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:34
S1808	1287	5G same (TAI or TA-ID or S1783 or S1782)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:36
S1809	5	S1808 and S1796	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/11/25 08:36

			DERWENT; IBM_TDB			
S1810	28	(forbidden or forbid\$4 or forbad or forbade or prohibit\$4 or banned) near1 (S1784 near1 list)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:48
S1811	1	(reset\$4 or re-set\$4) near6 (S1784 near1 list)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:48
S1812	53	(reset\$4 or re-set\$4) near6 S1784	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:49
S1813	1	S1812 and S1810	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:49
S1814	5153	(registered or register\$4 or registration) near6 emergency	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:55
S1815	8099	(remove or remov\$4 or delete or deletes or delet\$4) near6 (S1784 or S1783 or S1782)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:56
S1816	19	S1815 same S1810	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:56
S1817	2	S1816 and S1814	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:56
S1818	5	S1815 and S1814	US-PGPUB; USPAT; USOCR;	OR	ON	2019/11/25 08:57

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1819	4	S1816 same emergency	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 08:58
S1820	5	"20140092871".pn. or "20140295837".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 09:50
S1821	2	(allowed or allow or allow\$4) and S1820	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 09:51
S1822	72215	((second or second\$4) near1 (control\$4 near1 channel\$4)) OR (physical near1 downlink near1 control near1 channel) or PDCCH or (enhance near1 physical near1 downlink near1 control near1 channel) or EPDCCH	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/26 13:10
S1823	731	(repetitive or repetition or repetit\$4) near6 ((physical near1 downlink near1 shared near1 channel) or PDSCH)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/26 13:13
S1824	723	(repetitive or repetition or repetit\$4) near6 ((transport near1 block) or TB)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/26 13:14
S1825	30	(repetitive or repetition or repetit\$4) near6 ((second\$4 or secondary) near1 ((transport near1 block) or TB))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/26 13:16
S1826	3	S1822 near10 S1825	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/26 13:16
S1827	9571	(uplink-downlink or (uplink near1	US-PGPUB;	OR	ON	2019/11/26

		downlink) or (up-link near1 down-link) or UL-DL) near1 configuration	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			13:19
S1828	64	(schedule or schedul\$4 or scheduling) near6 S1824	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/26 13:21
S1829	1	S1827 same S1828	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/26 13:21
S1830	68367	(first near1 control near1 channel) or (physical near1 downlink near1 control near1 channel) or PDCCH	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/26 13:30
S1831	11910	(sub-channels or (sub near1 channels) or subchannels) near6 (allocation or allocates or allocate or allocat\$4 or assign\$4 or assignes or assign)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/29 13:27
S1832	580	to-be-scheduled or to-be-schedul\$4 or not-to-be-scheduled or not-to-be-schedul\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/29 13:28
S1833	1	S1831 same S1832	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/29 13:28
S1834	597	PDSCH near4 repetition	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 09:18
S1835	105	(scheduling or schedul\$4) near6 S1834	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2019/12/03 09:19

			IBM_TDB			
S1836	4609	(TB or (transport near1 block)) near6 ((transmission near1 time near1 unit) or (transmission near1 time near1 interval) or TTI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 09:20
S1837	1	S1836 same S1835	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 09:21
S1838	2743	(control-plane or (control near1 plane) or CP) near1 connection	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 10:27
S1839	110	(no or without) near4 S1838	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 10:28
S1840	10	S1839 same MME	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 10:28
S1841	8722	S1-MME	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 10:32
S1842	12	S1841 and S1839	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 10:33
S1843	475	((transport near1 network near1 layer) or TNL) near1 (address or addresses)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 12:36
S1844	43	(obtain\$4 or obtains or obtaining) near6 S1843	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2019/12/03 12:37

			EPO; JPO; DERWENT; IBM_TDB			
S1845	24	(establishes or establish\$4 or establish) same S1844	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 12:37
S1846	78567	(evolved near1 universal near1 terrestrial near1 radio near1 access) or E-UTRA	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 12:41
S1847	668	((new near1 radio) or NR) same S1846 same (RAT or (radio near1 access near1 technology))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 12:42
S1848	0	S1847 and S1845	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 12:42
S1849	0	S1847 and S1844	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 12:42
S1850	2	((new near1 radio) or NR) same S1846) and (S1844 or S1845)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 12:43
S1851	3	((new near1 radio) or NR) and S1846 and (S1844 or S1845)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 12:44
S1852	2	((transport near1 network near1 layer) or TNL) same (establish\$4 or establishment) same E-UTRA	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 12:49
S1853	1055	((transport near1 network near1 layer) or TNL) same (establish\$4 or	US-PGPUB; USPAT;	OR	ON	2019/12/03 12:49

		establishment)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1854	2	((transport near1 network near1 layer) or TNL) same (establish\$4 or establishment or setup or set-up) same E-UTRA	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 12:50
S1855	13	((transport near1 network near1 layer) or TNL) same (establish\$4 or establishment or setup or set-up) same (control-plane or CP)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 12:51
S1856	558	(no or without) near4 (control-plane or C-plane)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 14:21
S1857	1	gNB same MME same S1856	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 14:23
S1858	124	(LTEeNB or (LTE near1 eNB)) same MME same gNB	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 14:24
S1859	2	(control-plane or C-plane) same S1858	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 14:24
S1860	15502	(no or without) near4 (control-plane or C-plane or CP)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 14:26
S1861	1	gNB same MME same S1860	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 14:26

EAST Search History

S1862	45	MME same S1860	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 14:26
S1863	48	(MME or gNB) same S1860	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 14:26
S1864	2	S1860 near10 gNB	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 14:27
S1865	14	S1860 near10 (gNB or MME)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 14:28
S1866	3	S1-MME same Xx-C	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 14:48
S1867	1	S1866 and TNL	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/03 14:57
S1868	155	(TNL near1 (address or addresses)) and S1-MME	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/04 11:28
S1869	9	(TNL near1 (address or addresses)) same S1-MME	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/04 11:29
S1870	68	(requesting or request\$4 or request) near6 (TNL near1 (address or addresses))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/12/04 11:41

			DERWENT; IBM_TDB			
S1871	1	S1870 same S1-MME	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/04 11:42
S1872	22	S1870 and S1-MME	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/04 11:42
S1873	15284	((transport near1 network enar1 layer) or TNL) near1 (address or addresses)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/04 18:57
S1874	2040	(request\$4 or discovery or broadcast\$4 or multicast\$4 or discover\$4 or obtain\$4) near6 S1873	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/04 18:58
S1875	105	proxy same S1874	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/04 18:59
S1876	220	proxy near10 (S1874 or S1873)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/04 19:05
S1877	99	proxy near4 (S1874 or S1873)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/04 19:05
S1878	0	proxy same S1874 same S-GW	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/04 19:08
S1879	1	proxy same S1873 same S-GW	US-PGPUB; USPAT; USOCR;	OR	ON	2019/12/04 19:08

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1880	4	S1875 and S-GW	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/04 19:08
S1881	9623	E-UTRA and ((new near1 radio) or NR or 5G)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/04 19:17
S1882	260	S1881 and (S1873 or S1874)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/04 19:17
S1883	18	S1881 and S1874	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/04 19:17
S1884	18	proxy near6 (request\$4 near4 S1873)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/04 19:20
S1885	34	proxy same (request\$4 near4 S1873)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/04 19:22
S1886	291	proxy and (request\$4 near4 S1873)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/04 19:36
S1887	27	proxy and (request\$4 near4 S1873) and E-UTRA	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/04 19:37
S1888	498	proxy same S1873	US-PGPUB;	OR	ON	2019/12/04

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			19:39
S1889	19	S1888 and S1874 and E-UTRA	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/04 19:39
S1890	538	obtain\$4 near6 S1873	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/04 19:44
S1891	977	request\$4 near6 S1873	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/04 19:44
S1892	124	S1890 and S1891	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/04 19:44
S1893	13	E-UTRA and S1892	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/04 19:45
S1894	4	"20180227919".pn. or "20160212775".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/04 20:09
S1895	2	S1894 and (core near1 network)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/04 20:10
S1896	18563	(transmission or transmit\$4 or transmitting) near6 ((common near1 reference near1 signal) or CRS)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2019/12/06 14:39

			IBM_TDB			
S1897	486278	(assign\$4 or assigning or assigned or allocate or allocates or allocat\$4 or determine or determines or determin\$4) near4 (resource or resources)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 14:40
S1898	1702	S1896 same S1897	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 14:40
S1899	27	((minimum or possible) near1 (resource or resources)) same S1898	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 14:41
S1900	53	((minimum or possible) near1 (resource or resources)) same S1896	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 14:49
S1901	1073	((minimum or possible) near1 (resource or resources)) near6 (transmission or transmissions or transmitting or transmit\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 14:52
S1902	22	((common near1 reference near1 signal) or CRS) same S1901	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 14:53
S1903	153	S1896 and S1901	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 14:54
S1904	4131907	(common near1 reference near1 signal) or CRS	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 16:41
S1905	162	((narrow near1 band) or narrowband or narrow-band) near4 S1904	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2019/12/06 16:42

			EPO; JPO; DERWENT; IBM_TDB			
S1906	18563	(transmission or transmissions or transmit\$4 or transmitting or transmiting) near6 S1904	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 16:43
S1907	101245	(minimum or min or minimiz\$4) near4 (resource or resources or bandwidth or bandwidths)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 16:44
S1908	171326	(minimum or min or minimiz\$4 or possible) near4 (resource or resources or bandwidth or bandwidths)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 16:44
S1909	274	S1908 same (S1905 or S1906)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 16:45
S1910	8	S1909 and S1905 and S1906	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 16:45
S1911	153	S1907 same (S1905 or S1906)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 16:46
S1912	586504	(determin\$4 or assign\$4 or allocat\$4) near4 (resource or resources or bandwidth or bandwidths)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 16:47
S1913	83	S1912 same S1907 same S1904	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 16:47
S1914	1404	(S1907 or S1912) near6 S1904	US-PGPUB; USPAT;	OR	ON	2019/12/06 16:48

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1915	382	S1914 and S1907	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 16:48
S1916	4131907	(common near1 reference near1 signal) or CRS	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:01
S1917	5531	S1916 near4 (resource or resources)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:02
S1918	4265	(minimum or min) near4 (resource or resources) near4 (allocat\$4 or assign\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:03
S1919	21	S1918 same S1916	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:03
S1920	18563	(transmission or transmit\$4) near6 S1916	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:05
S1921	49	((minimum or min) near4 (resource or resources)) same S1920	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:05
S1922	2417	S1917 same S1920	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:08

S1923	321	((minimum or min) near4 (resource or resources)) and S1922	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:08
S1924	18	((minimum or min) near4 (resource or resources)) same S1922	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:08
S1925	110	(minimum or min) same S1922	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:10
S1926	350	(minimum or min or possible or available) same S1922	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:11
S1927	32751	(minimum or min or possible or available) near4 (resource or resources) near4 (allocat\$4 or assign\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:11
S1928	253	S1922 and S1927	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:11
S1929	3762	(resource or resources or bandwidth or bandwidth or sub or RB or (resource near1 block)) near6 S1920	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:16
S1930	2133	((minimum or min or possible or available) near4 (resource or resources)) and S1929	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:18
S1931	2133	S1930 and S1929	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/12/06 20:19

			DERWENT; IBM_TDB			
S1932	144	((minimum or min or possible or available) near4 (resource or resources)) same S1929	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:19
S1933	1666	((minimum or min) near4 (resource or resources)) near6 (transmission or transmit\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:21
S1934	18	S1933 same S1920	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:22
S1935	34	S1933 same S1916	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:22
S1936	5591	((minimum or min) near4 (resource or resources)) near6 (transmission or transmit\$4 or allocat\$4 or assign\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:24
S1937	450	S1936 and S1920	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:25
S1938	26	S1936 same S1920	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:25
S1939	4136155	(common near1 reference near1 signal) or CRS or (common near1 RS)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:27
S1940	51	S1939 same S1936	US-PGPUB; USPAT; USOCR;	OR	ON	2019/12/06 20:27

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1941	37	S1940 and S1936 and S1920	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:29
S1942	21227	(transmission or transmit\$4 or allocat\$4 or assign\$4) near6 S1939	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:30
S1943	27	S1936 same S1942	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:31
S1944	27	S1943 and S1936 and S1942	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:32
S1945	55213	((minimum or min) near4 (resource or resources or bandwidth or bandwidths))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:34
S1946	18708	(limiting or limit\$4 or restriction or restrict\$4) near4 ((length or bandwidth or bandwidths or lengths or bandwidths or bandwidth) near4 (transmission or transmit\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:36
S1947	42	S1946 same S1920	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:37
S1948	68	S1946 same S1916	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:38
S1949	318448	(minimum or min or limiting or	US-PGPUB;	OR	ON	2019/12/06

		limit\$4) near4 (resource or resources or bandwidth or bandwidths or (length near4 transmission))	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			20:41
S1950	1124	S1949 same S1939	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:41
S1951	362	S1949 same S1942	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:42
S1952	140	S1949 near10 S1942	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:42
S1953	19	S1942 near10 S1945	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:43
S1954	313	S1920 same S1949	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:44
S1955	324	S1949 near10 S1916	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:45
S1956	147	S1955 same S1920	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:45
S1957	20990	(transmission or transmit\$4 or allocat\$4 or assign\$4) near6 S1916	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2019/12/06 20:46

			IBM_TDB			
S1958	130	S1957 near6 S1949	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:46
S1959	4762	(common near1 reference near1 signal) same CRS	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:49
S1960	4131907	(common near1 reference near1 signal) or CRS	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:49
S1961	18563	(transmission or transmission or transmit\$4) near6 S1960	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:50
S1962	64037	(minimum or min) near6 (resource or bandwidths or bandwidth)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:50
S1963	12673	limit\$4 near6 ((length or bandwidth) near4 transmission)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:51
S1964	160	(S1962 or S1963) same S1961	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:52
S1965	35	S1959 and S1964	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 20:52
S1966	920	CRS near4 ((resource or resources) near6 (allocat\$4 or assign\$4))	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2019/12/06 21:08

			EPO; JPO; DERWENT; IBM_TDB			
S1967	22650	(minimum or min or minimiz\$4 or limit\$4) near4 (resource or resources or bandwidth or bandwidths) near4 (allocat\$4 or assign\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 21:09
S1968	111	S1966 and S1967	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 21:10
S1969	4131907	CRS or (common near1 reference near1 signal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 21:13
S1970	351456	(minimum or min or limit\$4 or limiting) near6 (resource or resources or bandwidths or bandwidth)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 21:14
S1971	21012	(transmission or transmit\$4 or allocat\$4 or assign\$6) near6 S1969	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 21:15
S1972	132	S1970 near4 S1971	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/06 21:16
S1973	124224	(minimum or min or minimiz\$4 or limiting or limiting) near4 (resource\$ or bandwidth or bandwidths or resource)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/07 11:11
S1974	21227	(transmission or transmit\$4 or transmission or allocate or allocat\$4 or assign\$4) near6 (CRS or (common near1 reference near1 signal) or (common near1 RS))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/07 11:12
S1975	176	S1973 same S1974	US-PGPUB; USPAT;	OR	ON	2019/12/07 11:13

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1976	30	S1973 near6 S1974	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/07 11:13
S1977	6393	(resource\$ or bandwidth or bandwidths or resource) near4 (CRS or (common near1 reference near1 signal) or (common near1 RS))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/07 11:19
S1978	146	S1973 same S1977	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/07 11:20
S1979	134	S1978 and S1974	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/07 11:20
S1980	113	S1978 same S1974	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/07 11:20
S1981	4763	limit\$4 near6 ((length near1 transmission) or (bandwidth near1 transmission))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/07 11:24
S1982	101505	(minimum or min or minimiz\$4) near4 (resource\$ or bandwidth or bandwidths or resource)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/07 11:24
S1983	173	((S1981 or S1982) same CRS) and S1974	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/07 11:27

S1984	254	(S1981 or S1982) near6 (CRS or (common near1 reference near1 signal) or (common near1 RS) or (reference near1 signal))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/07 11:29
S1985	61196	(minimum or min or minimiz\$4 or possible) near1 (resource\$ or bandwidth or bandwidths or resource)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/07 11:30
S1986	2322	limit\$4 near1 ((length near1 transmission) or (bandwidth near1 transmission))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/07 11:30
S1987	117	(S1985 or S1986) near4 (CRS or (common near1 reference near1 signal) or (common near1 RS) or (reference near1 signal))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/07 11:31
S1988	250	(S1985 or S1986) near4 (CRS or (common near1 reference near1 signal) or (common near1 RS) or (reference near1 signal) or RS)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/07 11:31
S1989	148	(transmission near4 (CRS or (common near1 reference near1 signal) or (common near1 RS) or (reference near1 signal) or RS)) and S1988	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/07 11:32
S1990	55	(transmission near4 (CRS or (common near1 reference near1 signal) or (common near1 RS) or (reference near1 signal) or RS)) same S1988	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/07 11:33
S1991	941	(narrowband or narrow-band or (narrow near1 band)) same CRS	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/07 11:38
S1992	97	S1991 and (S1985 or S1986)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/12/07 11:39

EAST Search History

			DERWENT; IBM_TDB			
S1993	2570	(transmission or transmit\$4 or transmission or allocate or allocat\$4 or assign\$4) near6 (common near1 reference near1 signal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/07 11:40
S1994	294	S1993 and (S1985 or S1986)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/07 11:41
S1995	89	S1993 same (S1985 or S1986)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/07 11:41

12/ 8/ 2019 3:13:38 PM

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/191,465	11/15/2018	HUNG-CHEN CHEN	US74884

CONFIRMATION NO. 6215

54000
ScienBiziP, PC
550 South Hope Street
Suite 2825
Los Angeles, CA 90071

PUBLICATION NOTICE



OC000000108240613

Title:SYSTEM INFORMATION UPDATES IN BAND WIDTH PART (BWP) SWITCH OPERATION

Publication No.US-2019-0150064-A1

Publication Date:05/16/2019

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently <http://www.uspto.gov/patft/>.

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
16/191,465	11/15/2018		1720	US74884	20	2

CONFIRMATION NO. 6215

FILING RECEIPT



0000000104238493

54000
ScienBiziP, PC
550 South Hope Street
Suite 2825
Los Angeles, CA 90071

Date Mailed: 12/07/2018

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

HUNG-CHEN CHEN, Hsinchu, TAIWAN;
CHIE-MING CHOU, Hsinchu, TAIWAN;

Applicant(s)

FG Innovation IP Company Limited, Tuen Mun, CHINA;

Power of Attorney: The patent practitioners associated with Customer Number 54000

Domestic Priority data as claimed by applicant

This appln claims benefit of 62/586,598 11/15/2017

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 12/04/2018

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/191,465**

Projected Publication Date: 05/16/2019

Non-Publication Request: No

Early Publication Request: No
Title

SYSTEM INFORMATION UPDATES IN BAND WIDTH PART (BWP) SWITCH OPERATION

Preliminary Class

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 16/191,465				
APPLICATION AS FILED - PART I										
(Column 1)		(Column 2)		SMALL ENTITY		OTHER THAN SMALL ENTITY				
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)			
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	300			
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A	660			
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	760			
TOTAL CLAIMS (37 CFR 1.16(i))	20	minus 20 = *				x 100 =	0.00			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2	minus 3 = *				x 460 =	0.00			
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).						0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL		TOTAL	1720			
APPLICATION AS AMENDED - PART II										
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OTHER THAN SMALL ENTITY		
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=		x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=		x	=
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
TOTAL ADD'L FEE									TOTAL ADD'L FEE	
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=		x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=		x	=
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
TOTAL ADD'L FEE									TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** 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 found in the appropriate box in column 1.										

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Application Number	
Filing Date	
First Named Inventor	HUNG-CHEN CHEN
Title	SYSTEM INFORMATION UPDATES IN BAND WIDTH PART (BWP) SWITCH OPERATION
Art Unit	
Examiner Name	
Attorney Docket Number	US74884

SIGNATURE of Applicant or Patent Practitioner

Signature	/Calvin H Chai/	Date (Optional)	2018-11-14
Name	Calvin H Chai	Registration Number	68009
Title (if Applicant is a juristic entity)	Patent Practitioner		
Applicant Name (if Applicant is a juristic entity)	FG Innovation IP Company Limited		

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**UNITED STATES NON-PROVISIONAL PATENT APPLICATION
FOR**

**SYSTEM INFORMATION UPDATES IN BAND
WIDTH PART (BWP) SWITCH OPERATION**

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CROSS REFERENCE TO RELATED APPLICATIONS

[0001] This application claims the benefit of and priority to U.S. Provisional Application No. 62/586,598 filed on November 15, 2017 and entitled “SYSTEM INFORMATION UPDATE IN BWP SWITCH OPERATION,” Attorney Docket No. US72315 (hereinafter referred to as “US72315 application”). The disclosure of the US72315 application is hereby incorporated fully by reference into the present disclosure.

TECHNICAL FIELD

[0002] The present disclosure generally relates to a method for bandwidth part switching operations performed by a user equipment and user equipment performing the same.

BACKGROUND

[0003] In a cellular network, a UE-specific serving cell may configure one or more bandwidth parts (BWPs) in downlink and uplink respectively for a UE by dedicated RRC signaling. One the other hand, a UE may be allocated to with at most one active DL BWP and one active UL BWP at a given time by the cell. A single scheduled downlink control information (DCI) may be applied to switching from one active BWP to another for an operating UE.

[0004] For a UE, an initial active DL BWP is defined as the frequency location and bandwidth dedicated for broadcasting remaining minimum SI (RMSI). When the NW sends to a Connected_UE a system information (SI) change indication that notifies of system information change, the Connected_UE may have to switch from the currently active BWP to the initial active BWP for accessing the RMSI and updating to the changed SI if there is no SI broadcasting on the currently active BWP. Furthermore, the Connected_UE may not successfully complete SI update if there is no clear UE behavior defined for BWP switching. As a result of BWP switching inability problem, the UE may not be able to update system information.

SUMMARY

[0005] The present disclosure is directed to bandwidth part (BWP) switching operations in conjunction with system information updates for a user equipment.

[0006] In one aspect of the present disclosure, a method for bandwidth part (BWP) operations performed by a user equipment (UE) of a connected state is provided. The method comprises receiving a system information (SI) change indication broadcasted by a paging via a currently active bandwidth part (BWP) during a modification period; switching from the currently active bandwidth part (BWP) for data transmission to an initial active BWP for an SI update; receiving remaining minimum SI (RMSI) via the initial active BWP during a next modification period that immediately follows the modification period, the RMSI including information associated with changed system information blocks (SIBs); determining which of the changed SIBs is required to be updated for the UE; and receiving content of the required changed SIBs based on the determination.

[0007] In one aspect of the present disclosure, a user equipment (UE) of a connected state is configured to receive a system information (SI) change indication broadcasted by a paging via a currently active bandwidth part (BWP) during a modification period; to switch from the currently active bandwidth part (BWP) for data transmission to an initial active BWP for an SI update; to receive remaining minimum SI (RMSI) via the initial active BWP during a next modification period that immediately follows the modification period, the RMSI including information associated with changed system information blocks (SIBs); to determine which of the changed SIBs is required to be updated for the UE; and to receive content of the required changed SIBs based on the determination.

BRIEF DESCRIPTION OF THE DRAWINGS

[0008] Aspects of the exemplary disclosure are best understood from the following detailed description when read with the accompanying figures. Various features are not drawn to scale, dimensions of various features may be arbitrarily increased or reduced for clarity of discussion.

[0009] FIG. 1 is a schematic diagram illustrating a BWP switching operation for a Connected_UE due to receiving an SI change indication in accordance with one exemplary embodiment of the present disclosure.

[0010] FIG. 2 is a schematic diagram illustrating a BWP switching operation for a Connected_UE due to receiving an SI change indication in accordance with one exemplary embodiment of the present disclosure.

[0011] FIG. 3 is a schematic diagram illustrating a BWP switching operation for a Connected_UE due to receiving an SI change indication in accordance with one exemplary embodiment of the present disclosure.

[0012] FIG. 4 is a schematic diagram illustrating a BWP switching operation for a Connected_UE due to receiving an SI change indication in accordance with one exemplary embodiment of the present disclosure.

[0013] FIG. 5 is a schematic diagram illustrating a BWP switching operation for a Connected_UE due to receiving an SI change indication in accordance with one exemplary embodiment of the present disclosure.

[0014] FIG. 6 is a schematic diagram illustrating a BWP switching operation for a Connected_UE due to receiving an SI change indication in accordance with one exemplary embodiment of the present disclosure.

[0015] FIG. 7 is a schematic diagram illustrating a BWP switching operation for a Connected_UE due to receiving a public warning system (PWS) notification indication in accordance with one exemplary embodiment of the present disclosure.

[0016] FIG. 8 is a schematic diagram illustrating a BWP switching operation for a Connected_UE due to receiving a public warning system (PWS) notification indication in accordance with one exemplary embodiment of the present disclosure.

[0017] FIG. 9 is a schematic diagram illustrating a BWP switching operation for a Connected_UE due to receiving a public warning system (PWS) notification indication in accordance with one exemplary embodiment of the present disclosure.

[0018] FIG. 10 is a block diagram of a device for wireless communication in accordance with various embodiments of the present disclosure.

DETAILED DESCRIPTION

[0019] The following description contains specific information pertaining to exemplary implementations in the present disclosure. The drawings in the present disclosure and their accompanying detailed description are directed to merely exemplary implementations. However, the present disclosure is not limited to merely these exemplary implementations. Other variations and implementations of the present disclosure will occur to those skilled in the art. Unless noted otherwise, like or corresponding elements among the figures may be indicated by like or corresponding reference numerals. Moreover, the drawings and illustrations in the present disclosure are generally not to scale, and are not intended to correspond to actual relative dimensions.

[0020] The description uses the phrases “in one implementation,” or “in some implementations,” which may each refer to one or more of the same or different implementations. The term “coupled” is defined as connected, whether directly or indirectly through intervening components, and is not necessarily limited to physical connections. The term “comprising,” when utilized, means “including, but not necessarily limited to”; it specifically indicates open-ended inclusion or membership in the so-described combination, group, series and the equivalent.

[0021] It is noted that the term “and/or” includes any and all combinations of one or more of the associated listed items. It will also be understood that, although the terms first, second, third etc. may be used herein to describe various elements, components, regions, parts and/or sections, these elements, components, regions, parts and/or sections should not be limited by these terms. These terms are only used to distinguish one element, component, region, part or section from another element, component, region, layer or section. Thus, a first element, component, region, part or section discussed below could be termed a second element, component, region, layer or section without departing from the teachings of the present disclosure.

[0022] It should be noted that, in the present disclosure, a UE may include, but is not limited to, a mobile station, a mobile terminal or device, a user communication radio terminal. For example, a UE may be a portable radio equipment, which includes, but is not limited to, a mobile phone, a tablet, a wearable device, a sensor, a personal digital assistant (PDA), or a television display with wireless communication capability. The UE is configured to receive and transmit signals over an air interface to one or more cells in a radio access network.

[0023] A base station may include, but is not limited to a node B (NB) as in the UMTS, an evolved node B (eNB) as in the LTE-A, a radio network controller (RNC) as in the UMTS, a base station controller (BSC) as in the GSM/GERAN, an NG-eNB as in an E-UTRA base station in connection with the 5GC, a next generation node B (gNB) as in the 5G Access Network (5G-AN), and any other apparatus capable of controlling radio communication with cellular positioning technology and managing radio resources within a cell. The base station may connect to serve the one or more UEs through a radio interface to the network.

[0024] In one embodiment of the present disclosure, a Connected_UE may implicitly switch to an initial active BWP upon receiving a system information (SI) change indication broadcasted by paging from cellular network (NW). The SI change indication indicates a SI change/modification and notifies the UE to update to the changed SI if required by the UE. This results in reduction of redundant L1 signaling for switching from a currently active BWP to the initial active BWP for the UE. In FIG. 1, a BWP switching operation for a Connected_UE due to receiving an SI change indication is illustrated. In DL, the UE may operate on an indicated BWP as currently active DL BWP for DL data transmission (e.g., based on RRC configuration, DCI control or the behavior for BWP inactivity timer) or operate on an initial active DL BPW able to receive the content of changed SI required for the UE SI update. The UE may also have an uplink (UL) BWP for UL data transmission and an initial active UL BWP. Within n^{th} broadcast control channel modification period (denoted as BCCH modification period n), the UE may operate on the indicated BWP as the currently active BWP for data transmission according to L1 signaling.

[0025] The SI change indication is sent to the UE by paging (e.g., a Short Message) from the NW while the UE operates on the indicated BWP. Specifically, the UE receives indications about SI modifications and/or PWS notifications using Short Message transmitted with P-RNTI over downlink control information (DCI). At 101, upon receiving the SI change indication, UE may switch immediately to the initial active BWP from the indicated BWP during BCCH modification period n . The SI change indication is used to inform the UE that there is a system information change(s) or update(s), and may be carried as part of the Short Message. Then, RRC sublayer of the NW may inform the PHY sublayer that the paging has been sent to the UE and the switching of the UE to the initial active BWP has been performed. So, the NW may stop sending to the UE any other L1 signaling (e.g., DCI) for BWP switching operations.

[0026] After switching to the initial active BWP, the UE may continue to stay on the initial active BWP until BCCH modification period $n+1$ ends. The BCCH modification period $n+1$ immediately follows the BCCH modification period n in time sequence. Although the UE has switched to the initial active BWP at certain timing (e.g., at 101) within BCCH modification period n , it is in the next BCCH modification period $n+1$ that the UE performs the system information acquisition to update to changed system information. In modification period $n+1$, the UE may receive broadcast remaining minimum system information (RMSI) carrying information associated with changed system information blocks (SIBs) via the initial active BWP and perform the SI update(s) according to the information. The RMSI is also known as SIB1 (system information block 1). The UE may receive the RMSI at certain time point in modification period $n+1$ (e.g., at the start time point of the modification period $n+1$). After receiving the RMSI, the UE may determine which of the changed SIB(s) is (or are) required for the SI update(s) according to the received information. For example, the UE may identify one or more of the changed SIB(s) that the UE requires for the SI update(s). Then the UE may receive the content(s) of the changed SIBs which are identified as being required for the SI update(s) based on the determination. For another example, the UE may identify none of the changed SIBs is required to update and may not perform any SI update(s). The UE may not update the changed SIB(s) based on the identification within BCCH modification period $n+1$.

[0027] After the UE completes the SI update(s), the NW may re-take control over the BWP switching of the UE on the end of BCCH modification period $n+1$.

[0028] In this case, since the NW may know the UE by default will complete the SI update within modification period $n+1$, the PHY sublayer may re-take control over the BWP switching after BCCH modification period $n+1$ ends. Therefore, at 103 on the ending boundary of modification period $n+1$ the NW re-takes the BWP switching operations by sending L1 signaling to switch the initial active BWP to a BWP for subsequent data transmission.

[0029] In one embodiment, the currently active BWP happens to be the initial active BWP. In this case, it is not necessary that a BWP switching operation is involved for updating the SI when receiving the SI change indication. For example, the Connected UE has already been on the initial active BWP as currently active BWP because of certain on-going services in modification period n and will stay on the initial active BWP to perform system information acquisition to conduct the SI update in BCCH modification period $n+1$. The PHY sublayer of the NW may consider the

completeness of the SI update in the next BCCH modification period $n+1$. Then, the PHY sublayer of the NW may re-take control over the BWP switching operation on the end of BCCH modification period $n+1$.

[0030] In one embodiment, the UE may be only permitted to receive the Short Message of the paging on the initial active BWP. For example, based on the paging frame and paging occasion derived from an associated UE ID and per-configured parameters, the Short Message cannot be broadcasted on other BWPs but the initial active BWP. On occasions, the UE may switch to the initial active BWP automatically to detect whether there is a Short Message and receiving the Short Message. If receiving the SI change indication carried in the Short Message, the UE may stay on the initial active BWP for the subsequent SI update without the need for additional BWP switching. If receiving no Short Message or no SI change indication carried in the Short Message, the UE may switch back to the previous active BWP without involvement of the NW. Alternatively, the UE may not switch back but stay on the initial active BWP after modification period $n+1$ ends, waiting for next L1 signaling from the NW (e.g., DCI) for BWP switching.

[0031] In one embodiment of the present disclosure, the Connected UE may feedback to the NW while the SI update is completed, and the NW may re-take control over the BWP switching immediately upon receiving the feedback. In FIG. 2, a BWP switching operation for an RRC_connected UE due to receiving an SI change indication is illustrated. The UE may operate on an indicated BWP as currently active BWP for data transmission or operate on an initial active BPW able to receive the content of changed SI required for the UE SI update. Within modification period n , the UE may operate on the indicated BWP for data transmission according to L1 signaling.

[0032] The SI change indication is sent to the UE by paging (e.g., a Short Message) from the NW while the UE may operate on the indicated BWP. At 201, upon receiving the SI change indication, UE may switch to the initial active BWP immediately from the indicated BWP in BCCH modification period n . The SI change indication is used to inform the UE that there is SI change(s) or update(s), and may be carried as part of Short Message in the paging. Then, RRC sublayer of the NW may inform the PHY sublayer that the paging has been sent to the UE and the switching of the UE to the initial active BWP has been performed. So, the NW may stop sending to the UE any other L1 signaling for BWP switching operations, and wait for the UE feedback indicating the completeness of the SI update.

[0033] After switching to the initial active BWP, the UE may continue to stay on the initial active BWP until the update to SI is completed. At 203, the UE completed the SI update if required and feedback to the NW that the system information update is completed by sending an SI update complete indication. Upon receiving the SI update complete indication as the UE feedback, the PHY sublayer of the NW may re-take control over the BWP switching operation immediately. Although the UE has to operate on the initial active BWP for the SI update in DL, the NW may be still able to schedule data transmission on the initial active BWP.

[0034] The UE feedback of SI update complete may be sent by L1 signaling (via PUCCH) or by MAC-CE transmission on an uplink (UL) BWP paired with the initial active DL BWP. If using L1 signaling, the upper sublayer (e.g., RRC) of the UE may inform PHY sublayer that the SI update is completed, and the UE PHY sublayer may feedback it to the NW. The NW may re-take control over the BWP switching after receiving the feedback in NW PHY sublayer. Alternatively, if using MAC-CE transmission, the upper sublayer of the UE may inform MAC sublayer that the system information update is completed, and the UE MAC sublayer may feedback it to the NW. The NW may re-take control over the BWP switching once receiving the feedback in NW MAC sublayer.

[0035] In one embodiment of the present disclosure, upon receiving the SI change indication, the UE may not switch to the initial active BPW until the current BCCH modification period ends. In FIG. 3, a BWP switching operation for an RRC_connected UE due to receiving an SI change indication is illustrated. The UE may operate on an indicated BWP as currently active BWP for data transmission or operate on an initial active BPW able to receive the content of changed SI required for the UE SI update. Within BCCH modification period n, the UE may operate on the indicated BWP for data transmission according to L1 signaling.

[0036] The SI change indication is sent to the UE by paging (e.g., a Short Message) from the NW while the UE may operate on the indicated BWP. At 301, upon receiving the SI change indication, UE may continue to stay on the indicated BWP instead of switching immediately to the initial active BWP. Then, the UE switches to the initial active BWP automatically on the ending boundary of BCCH modification period n. The BWP switching operation(s) for the UE could be still performed for certain required services before the automatic switching to the initial active BWP takes place on the end of BCCH modification period n.

[0037] In this case, PHY sublayer of the NW may know that the UE switches to the initial active BWP automatically on the end of BCCH modification period n , and may stop sending to the UE any other L1 signaling for BWP switching operations after modification period n ends. The PHY sublayer of the NW may know the UE by default will complete the SI update within the next modification period $n+1$, the PHY sublayer may re-take control over the BWP switching after BCCH modification period $n+1$ ends. Therefore, at 303 on the ending boundary of modification period $n+1$ the NW re-takes the BWP switching operations by sending L1 signaling to switch the initial active BWP to a BWP for data transmission.

[0038] After switching to the initial active BWP on the end of modification period n , the UE may wait to receive, via the initial active BWP, broadcast information required for updating to the changed SI in a next BCCH modification period directly following modification period n . Therefore, within BCCH modification period $n+1$ (the next BCCH modification period as shown in FIG.3), the UE performs the system information acquisition to update the changed system information if required.

[0039] In this case, since the NW may know the UE by default will complete the SI update within the next modification period $n+1$, the PHY sublayer may re-take control over the BWP switching after BCCH modification period $n+1$ ends. Therefore, at 303 on the ending boundary of modification period $n+1$ the NW re-takes the BWP switching operations by sending L1 signaling to switch the initial active BWP to a BWP for data transmission.

[0040] In one embodiment of the present disclosure, the Connected UE may feedback to the NW while the SI update is completed, and the NW may take control over the BWP switching immediately upon receiving the feedback. In FIG. 4, a BWP switching operation for an RRC_connected UE due to receiving an SI change indication is illustrated. The UE may operate on an indicated BWP as currently active BWP for data transmission or operate on an initial active BPW able to receive the content of changed SI required for the UE SI update. Within BCCH modification period n , the UE may operate on the indicated BWP for data transmission according to L1 signaling.

[0041] The SI change indication is sent to the UE by paging (e.g., a Short Message) from the NW while the UE may operate on the indicated BWP. At 401, upon receiving the SI change indication, UE may continue to stay on the indicated BWP instead of switching immediately to the initial active BWP. Then, the UE switches to the initial active BWP automatically on the ending

boundary of BCCH modification period n. The BWP switching operation(s) for the UE could be still performed for certain required services before the automatic switching to the initial active BWP takes place on the end of modification period n. In this case, PHY sublayer of the NW may know that the UE switches to the initial active BWP automatically on the end of BCCH modification period n, and may stop sending to the UE any other L1 signaling for BWP switching operations after period n ends.

[0042] After switching to the initial active BWP on the end of modification period n, the UE may continue to stay on the initial active BWP until the update of the required SI change(s) is completed. At 403, the UE complete the SI update and feedback to the NW that the system information update is completed by sending an SI update complete indication. Upon receiving the SI update complete indication as the UE feedback, the PHY sublayer of the NW may re-take control over the BWP switching operation at 403. Although the UE has to operate on the initial active BWP for the SI update in DL, the NW may be still able to schedule data transmission on the initial active BWP.

[0043] The UE feedback of SI update complete may be sent by L1 signaling (via PUCCH) or by MAC-CE transmission on an uplink (UL) BWP paired with the initial active DL BWP. If using L1 signaling, the upper sublayer (e.g., RRC) of the UE may inform PHY sublayer that the SI update is completed, and the UE PHY sublayer may feedback it to the NW. The NW may re-take control over the BWP switching after receiving the feedback in NW PHY sublayer. Alternatively, if using MAC-CE transmission, the upper sublayer of the UE may inform MAC sublayer that the system information update is completed, and the UE MAC sublayer may feedback it to the NW. The NW may re-take control over the BWP switching once receiving the feedback in NW MAC sublayer.

[0044] In one embodiment of the present disclosure, after receiving an SI change indication the UE may not switch to an initial active BWP until an L1 signaling is received from the NW. In FIG. 5, a BWP switching operation for an RRC_connected UE due to receiving an SI change indication is illustrated. The UE may operate on an indicated BWP as currently active BWP for data transmission or operate on an initial active BPW able to receive the content of changed SI required for the UE SI update. Within BCCH modification period n, the UE may operate on the indicated BWP for data transmission according to L1 signaling.

[0045] The SI change indication is sent to the UE by paging (e.g., a Short Message) from the NW while the UE may operate on the indicated BWP in BCCH modification period n. At 501, upon receiving the SI change indication, the UE may not switch to the initial active BWP but continue to stay on the indicated BWP. On the NW side, the RRC sublayer may inform the PHY sublayer that the SI change indication is sent to the UE. The SI change indication may be carried as part of the Short Message in the paging. In response to the UE reception of the SI change indication, the PHY sublayer of the NW may schedule the L1 signaling and decide when to send the L1 signaling to switch the UE to the initial active BWP. After sending the SI change indication, the NW may perform the L1 signaling before BCCH modification period n ends.

[0046] At 503, the UE switches to the initial active BWP in response to receiving the L1 signaling sent from the NW in BCCH modification period n, and the NW may also stop sending to the UE any other L1 signaling for BWP switching operations. In this case, the PHY sublayer of the NW may know the UE by default will complete the SI update within the next modification period (i.e., BCCH modification period n+1 as shown in FIG. 5), and the PHY sublayer may re-take control over the BWP switching after BCCH modification period n+1 ends.

[0047] Thus, at 505 the NW re-takes control over the BWP switching operations on the ending boundary of modification period n+1 by sending L1 signaling to switch the initial active BWP to a BWP for data transmission.

[0048] Alternatively, the NW may re-take control over the BWP switching operations upon receiving a feedback from the UE indicating the SI update is complete before BCCH modification period n+1 ends. In FIG. 6, the UE receives a L1 signaling for switching to the initial active BWP at 603 after receiving the SI change indication at 601 in modification period n, followed by the SI update operations in modification period n+1. Once the UE completes the SI update at 605, the UE feedback of SI update complete (e.g., an SI update completeness indication) may be sent by another L1 signaling (via PUCCH) or by MAC-CE transmission on an uplink (UL) BWP paired with the initial active DL BWP. If using L1 signaling, the upper sublayer (e.g., RRC) of the UE may inform PHY sublayer that the SI update is completed, and the UE PHY sublayer may feedback it to the NW. The NW may re-take control over the BWP switching after receiving the feedback in NW PHY sublayer. If using MAC-CE transmission, the upper sublayer of the UE may inform MAC sublayer that the system information update is completed, and the UE MAC sublayer may

feedback it to the NW. The NW may re-take control over the BWP switching once receiving the feedback in NW MAC sublayer.

[0049] In one embodiment of the present disclosure, the UE may receive a public warning system (PWS) notification indication for ETWS indication or CMAS indication carried in Short Message of a paging. The PWS notification indication notifies the UE of immediate reception of a PWS notification. When a Connected_UE receives a PWS notification indication broadcasted by paging of the NW, the RRC sublayer of the UE may inform the PHY sublayer that a PWS notification reception is required immediately.

[0050] If the UE receives the PWS notification indication(s) of a paging from the NW, the UE has to immediately start receiving the PWS notification(s) according to the scheduling information in RMSI. The PWS notification indication may trigger the UE to perform re-acquisition of the scheduling information in RMSI for checking scheduling changes for the SIBs associated with the PWS notification(s). Once the SIB(s) associated with the corresponding PWS notification(s) is no longer scheduled, the UE could stop receives the SIB(s).

[0051] In FIG. 7, a BWP switching operation for an RRC_connected UE due to receiving a PWS notification indication is illustrated. The UE may operate on an indicated BWP as currently active BWP for data transmission or operate on an initial active BPW able to receive the content of changed SI required for the UE SI update. Within BCCH modification period n, the UE may operate on the indicated BWP as the current active BWP for data transmission according to L1 signaling.

[0052] The PWS notification indication is sent to the UE by paging (e.g., a Short Message) from the NW while the UE operates on the indicated BWP. At 701, upon receiving the PWS notification indication, UE may switch automatically to the initial active BWP from the indicated BWP in BCCH modification period n. The PWS notification indication may be carried as part of Short Message in the paging. Then, RRC sublayer of the NW may inform the PHY sublayer that the paging has been sent to the UE. So, the PHY sublayer of the NW knows successful automatic switching to the initial active BWP and may stop sending to the UE any other L1 signaling for BWP switching operations. The PHY sublayer of the NW would wait for the information from upper layer(s) indicating the stop of broadcasting PWS notification(s) at a certain time point, e.g. at 703 in BBCH modification period n+2. Then, the PHY sublayer in the NW could re-start to take control over BWP switching operation(s).

[0053] In another embodiment of the present disclosure, the Connected UE may feedback to the NW while the PWS notification is no longer scheduled, and the NW may re-take control over the BWP switching immediately upon receiving the feedback. In FIG. 8, a BWP switching operation for an RRC_connected UE due to receiving a PWS notification indication is illustrated. The UE may operate on an indicated BWP as currently active BWP for data transmission or operate on an initial active BPW able to receive the content of changed SI required for the UE SI update. Within BCCH modification period n, the UE may operate on the indicated BWP for data transmission according to L1 signaling.

[0054] The PWS notification indication is sent to the UE by paging (e.g., a Short Message) from the NW while the UE may operates on the indicated BWP. At 801, upon receiving the PWS notification indication, UE may switch to the initial active BWP automatically from the indicated BWP in BCCH modification period n. The PWS notification indication may be carried as part of Short Message in the paging. Then, RRC sublayer of the NW may inform the PHY sublayer that the paging has been sent to the UE and the switching of the UE to the initial active BWP has been performed. So, the NW may stop sending to the UE any other L1 signaling for BWP switching operations, and wait for the UE feedback indicating the PWS notification is no longer scheduled.

[0055] At 803, the UE may inform the NW of the stopping broadcast of the PWS notification(s) by a feedback that indicates the PWS notification is no longer scheduled.

[0056] In one embodiment of the present disclosure, after receiving a PWS notification indication the UE may not switch to an initial active BWP until an L1 signaling is received from the NW. Since the PWS notification is for emergence, the L1 signalling for switching the UE to the initial active BWP shall be transmitted as fast as possible. In FIG. 9, a BWP switching operation for an RRC_connected UE due to receiving a PWS notification indication is illustrated. The UE may operate on an indicated BWP as currently active BWP for data transmission or operate on an initial active BPW able to receive the content of changed SI required for the UE SI update. Within BCCH modification period n, the UE may operate on the indicated BWP for data transmission according to L1 signaling.

[0057] The PWS notification indication is sent to the UE by paging (e.g., a Short Message) from the NW while the UE may operate on the indicated BWP in BCCH modification period n. At 901, upon receiving the PWS notification indication, the UE may not switch to the initial active BWP but continue to stay on the indicated BWP until an L1 signaling from the NW is received. At 903,

the UE switches to the initial active BWP in response to receiving the L1 signaling sent from the NW in BCCH modification period n , and the NW may also stop sending to the UE any other L1 signaling for BWP switching operations. At 905, the PHY sublayer of the NW would wait for the information from upper layer(s) indicating the stop of broadcasting PWS notification(s) at a certain time point, e.g. in BCCH modification period $n+2$. Then, the PHY sublayer in the NW could re-start to take control over BWP switching operation(s).

[0058] Alternatively, the UE may inform the NW of the stopping broadcast of the PWS notification(s) by a feedback that indicates the PWS notification is no longer scheduled in this case.

[0059] In some embodiments of the present disclosure, a BWP inactivity timer is introduced to switch an ongoing indicated BWP (or the currently active BWP) to a default BWP after a certain inactive time. The BWP inactivity timer may start to run for an inactive time period immediately after the UE switches off the default BWP. In other words, no matter what BWPs the Connected_UE currently operates on, the UE may switch back to the default BWP immediately after the BWP inactivity timer expires.

[0060] If the initial active BWP is the default BWP, the currently running BWP inactivity timer would stop after receiving Short Message on the configured active BWP. The UE may switch to another BWP after SI acquisition in response to receiving an L1 signalling, and the BWP inactivity timer would reset with the configured value and start running.

[0061] If the initial active BWP is not the default BWP, the currently running BWP inactivity timer may keep running. In some embodiments, the BWP inactivity timer would restart with the configured value and start running. It is noted that the configured value may be different from the normal one (i.e., the normal one is not used for SI acquisition upon switching to the initial active BWP). For example, gNB(s) may configure the BWP inactivity timer with two values, one is 5ms, the other is 40ms (e.g., equal to the duration of one BCCH modification period), and UE will automatically apply the second one when the UE needs to perform SI acquisition after receiving the SI change indication carried in the Short Message.

[0062] In one embodiment of the present application, if the BWP inactivity timer expires but the SI update is not complete, the UE may keep staying on the initial active BWP until the next L1 signalling (e.g., DCI) controls the UE to perform another BWP switching. The NW may need the timing of the SI update completeness by an NW control mechanism (e.g., waiting for the whole BCCH modification period for SI updated as introduced in the above embodiments) or an UE

control mechanism (e.g., by waiting for the UE feedback as introduced in the above embodiments). The BWP inactivity timer would then reset and restart while the UE is switched to another BWP, which is not the default BWP. On the other hand, if the BWP inactivity timer is expired but the PWS notification receiving is not complete, the UE would keep staying on the initial active BWP until the next L1 signalling (e.g., DCI) controls the UE to perform another BWP switch. The NW would need the timing of the SI complete by an NW control mechanism (e.g., waiting for the whole BCCH modification period for SI updated as introduced in the embodiments) or an UE control mechanism (e.g., by waiting for the UE feedback as introduced in the embodiment). The BWP inactivity timer may then reset and restart while the UE switches to another BWP, which is not the default BWP. If there is no system information change indication or Public Warning System (PWS) notification indication indicating that the following SI update or PWS notification receiving procedure is required, once the BWP inactivity timer expires, the UE would automatically switch to the default BWP without L1 signalling.

[0063] Figure 10 illustrates a block diagram of a device for wireless communication, according to various exemplary implementations of the present disclosure. As shown in FIG. 10, device 1000 may include transceiver 1020, processor 1026, memory 1028, one or more presentation components 1034, and at least one antenna 1036. Device 1000 may also include an RF spectrum band module, a base station communications module, a network communications module, and a system communications management module, input/output (I/O) ports, I/O components, and power supply (not explicitly shown in FIG. 10). Each of these components may be in communication with each other, directly or indirectly, over one or more buses 1026.

[0064] Transceiver 1020 having transmitter 1022 and receiver 1024 may be configured to transmit and/or receive time and/or frequency resource partitioning information. In some implementations, transceiver 1020 may be configured to transmit in different types of subframes and slots including, but not limited to, usable, non-usable and flexibly usable subframes and slot formats. Transceiver 1020 may be configured to receive data and control channels.

[0065] Device 1000 may include a variety of computer-readable media. Computer-readable media can be any available media that can be accessed by device 1000 and include both volatile and non-volatile media, removable and non-removable media. By way of example, and not limitation, computer-readable media may comprise computer storage media and communication media. Computer storage media includes both volatile and non-volatile, removable and non-

removable media implemented in any method or technology for storage of information such as computer-readable instructions, data structures, program modules or other data.

[0066] Computer storage media includes RAM, ROM, EEPROM, flash memory or other memory technology, CD-ROM, digital versatile disks (DVD) or other optical disk storage, magnetic cassettes, magnetic tape, magnetic disk storage or other magnetic storage devices. Computer storage media does not comprise a propagated data signal. Communication media typically embodies computer-readable instructions, data structures, program modules or other data in a modulated data signal such as a carrier wave or other transport mechanism and includes any information delivery media. The term “modulated data signal” means a signal that has one or more of its characteristics set or changed in such a manner as to encode information in the signal. By way of example, and not limitation, communication media includes wired media such as a wired network or direct-wired connection, and wireless media such as acoustic, RF, infrared and other wireless media. Combinations of any of the above should also be included within the scope of computer-readable media.

[0067] Memory 1028 may include computer-storage media in the form of volatile and/or non-volatile memory. Memory 1028 may be removable, non-removable, or a combination thereof. Exemplary memory includes solid-state memory, hard drives, optical-disc drives, and etc. As illustrated in FIG. 10, memory 1028 may store computer-readable, computer-executable instructions 1032 (e.g., software codes) that are configured to, when executed, cause processor 1026 to perform various functions described herein, for example, with reference to FIGs. 1 through 9. Alternatively, instructions 1032 may not be directly executable by processor 1026 but be configured to cause device 1000 (e.g., when compiled and executed) to perform various functions described herein.

[0068] Processor 1026 may include an intelligent hardware device, e.g., a central processing unit (CPU), a microcontroller, an ASIC, and etc. Processor 1026 may include memory. Processor 1026 may process data 1030 and instructions 1032 received from memory 1028, and information through transceiver 1020, the base band communications module, and/or the network communications module. Processor 1026 may also process information to be sent to transceiver 1020 for transmission through antenna 1036, to the network communications module for transmission to a core network.

[0069] One or more presentation components 1034 presents data indications to a person or other device. Exemplary one or more presentation components 1034 include a display device, speaker, printing component, vibrating component, and etc.

[0070] From the above description it is manifest that various techniques can be used for implementing the concepts described in the present disclosure without departing from the scope of those concepts. Moreover, while the concepts have been described with specific reference to certain implementations, a person of ordinary skill in the art would recognize that changes can be made in form and detail without departing from the scope of those concepts. As such, the described implementations are to be considered in all respects as illustrative and not restrictive. It should also be understood that the present disclosure is not limited to the particular implementations described above, but many rearrangements, modifications, and substitutions are possible without departing from the scope of the present disclosure.

CLAIMS

What is claimed is:

1. A method for a user equipment (UE) of a connected state, the method comprising:
receiving a system information (SI) change indication broadcasted by a paging via a currently active bandwidth part (BWP) during a modification period;
switching from the currently active BWP to an initial active BWP for an SI update;
receiving remaining minimum SI (RMSI) via the initial active BWP during a next modification period that immediately follows the modification period, wherein the RMSI includes information associated with changed system information blocks (SIBs);
determining which of the changed SIBs is required to be updated for the UE; and
receiving content of the required changed SIBs based on the determination.
2. The method of claim 1, wherein the currently active BWP is switched to the initial active BWP automatically on the end of the modification period.
3. The method of claim 1, wherein the currently active BWP is switched to the initial active BWP immediately upon receiving the SI change indication.
4. The method of claim 1, wherein the currently active BWP is switched to the initial active BWP in response to receiving downlink control information (DCI).
5. The method of claim 1, further comprising:
completing the SI update of the required changed SIBs within the next modification period in response to receiving the content of the required changed SIBs.
6. The method of claim 1, further comprising:
sending an SI update complete indication as a feedback indicating completeness of the SI update via an uplink BWP.
7. The method of claim 1, wherein the UE is pre-configured with a default BWP and a BWP inactivity timer for the connected state, and wherein the UE starts the BWP inactivity timer after switching off the default BWP and switches back to the default BWP after the BWP inactivity timer expires.
8. The method of claim 7, wherein the BWP inactivity timer stops after the currently active BWP for data transmission is switched to an initial active BWP in response to receiving the SI change indication.

9. The method of claim 7, wherein the BWP inactivity timer is further configured to have a short period and a long period, and wherein the UE selects the long period for the BWP inactivity timer upon receiving the SI change indication.
10. The method of claim 7, wherein the UE stays on the initial active BWP in order to complete the SI update after the BWP inactivity timer expires.
11. A user equipment (UE) for wireless communication, comprising:
 - a non-transitory machine-readable medium storing computer-executable instructions;
 - a processor coupled to the non-transitory computer-readable medium, and configured to execute the computer-executable instructions to cause the UE of a connected state to perform operations comprising:
 - receiving a system information (SI) change indication broadcasted by a paging via a currently active bandwidth part (BWP) during a modification period;
 - switching from currently active BWP to an initial active BWP for an SI update; and
 - receiving remaining minimum SI (RMSI) via the initial active BWP during a next modification period that immediately follows the modification period, wherein the RMSI includes information associated with changed system information block (SIB);
 - determining which of the changed SIBs is required to be updated for the UE; and
 - receiving content of the required changed SIBs based on the determination.
12. The UE of claim 11, wherein the currently active BWP is switched to the initial active BWP automatically on the end of the modification period.
13. The UE of claim 11, wherein the currently active BWP is switched to the initial active BWP immediately upon receiving the SI change indication.
14. The UE of claim 11, wherein the currently active BWP is switched to the initial active BWP in response to receiving downlink control information (DCI).
15. The UE of claim 11, wherein the processor is further configured to execute the computer-executable instructions to cause the UE of a connected state to perform operations comprising:
 - completing the SI update of the required changed SIBs within the next modification period in response to receiving the content of the required changed SIBs.
16. The UE of claim 15, wherein the processor is further configured to execute the computer-executable instructions to cause the UE of a connected state to perform operations comprising:

sending an SI update complete indication as a feedback indicating completeness of the SI update via an uplink BWP.

17. The UE of claim 11, wherein the UE is pre-configured with a default BWP and a BWP inactivity timer for the connected state, and wherein the UE starts the BWP inactivity timer after switching off the default BWP and switches back to the default after the BWP inactivity timer expires.

18. The UE of claim 17, wherein the BWP inactivity timer stops after the currently active BWP for data transmission is switched to an initial active BWP in response to receiving the SI change indication.

19. The UE of claim 17, wherein the BWP inactivity timer is further configured to have a short period and a long period, and wherein the UE selects the long period for the BWP inactivity timer upon receiving the SI change indication.

20. The UE of claim 17, wherein the UE stays on the initial active BWP in order to complete the SI update after the BWP inactivity timer expires.

ABSTRACT

A user equipment (UE) for wireless communication is configured to perform bandwidth part (BWP) switching operation in response to receiving a system information change indication. The UE receives the system information change indication via a currently active BWP in a BCCH modification period. The system information change indication notifies the UE that contents of system information have been changed. The UE switches from the currently active BWP to an initial active BWP to receive the changed contents of system information which are required for the UE. The UE receives the changed contents of system information via the initial active BWP in a next BCCH modification period that immediately follows the BCCH modification period. The UE updates the system information according to the changed contents.

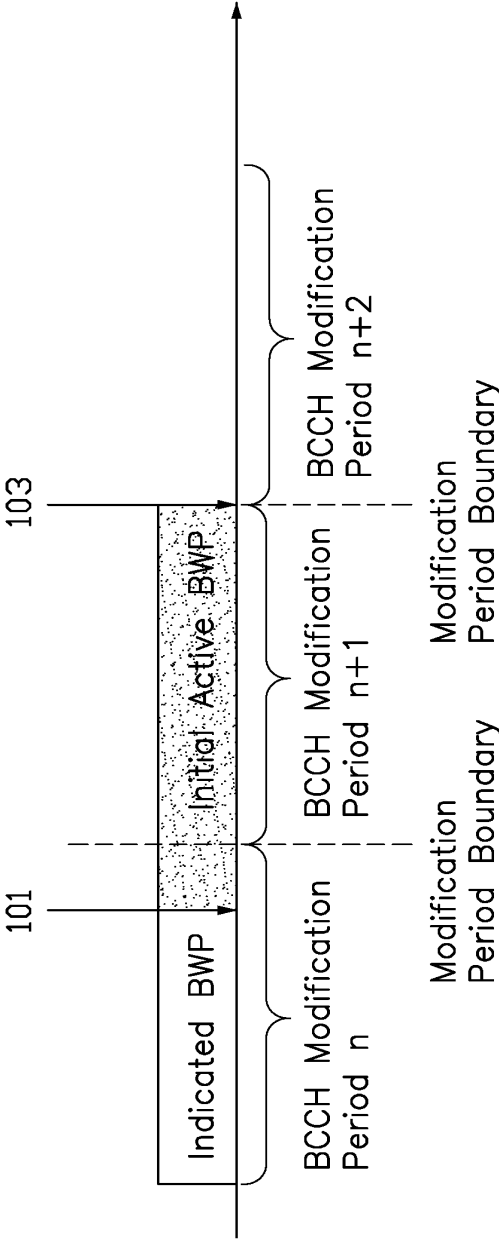


FIG. 1

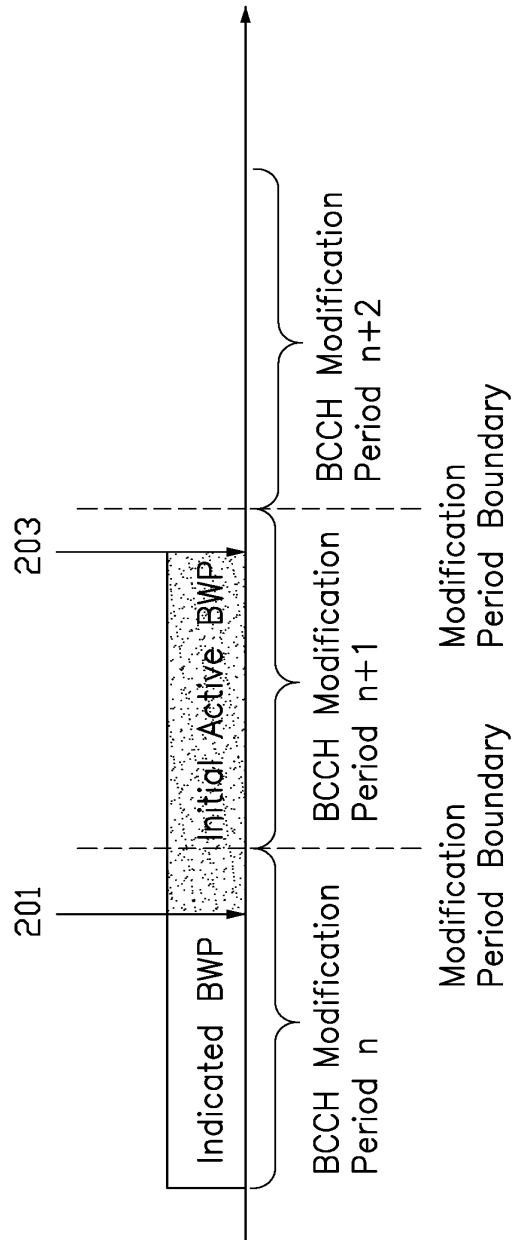


FIG. 2

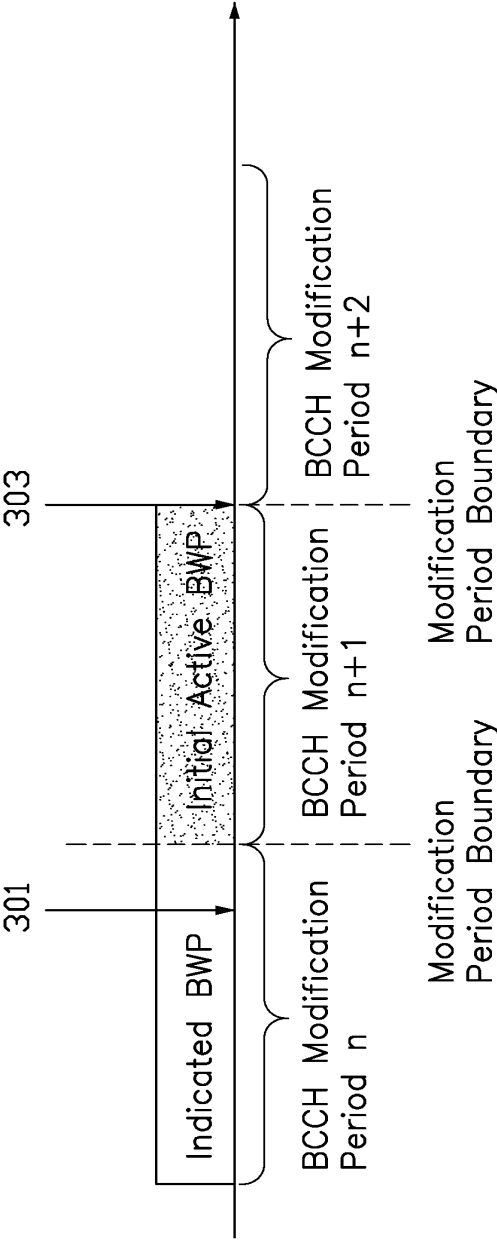


FIG. 3

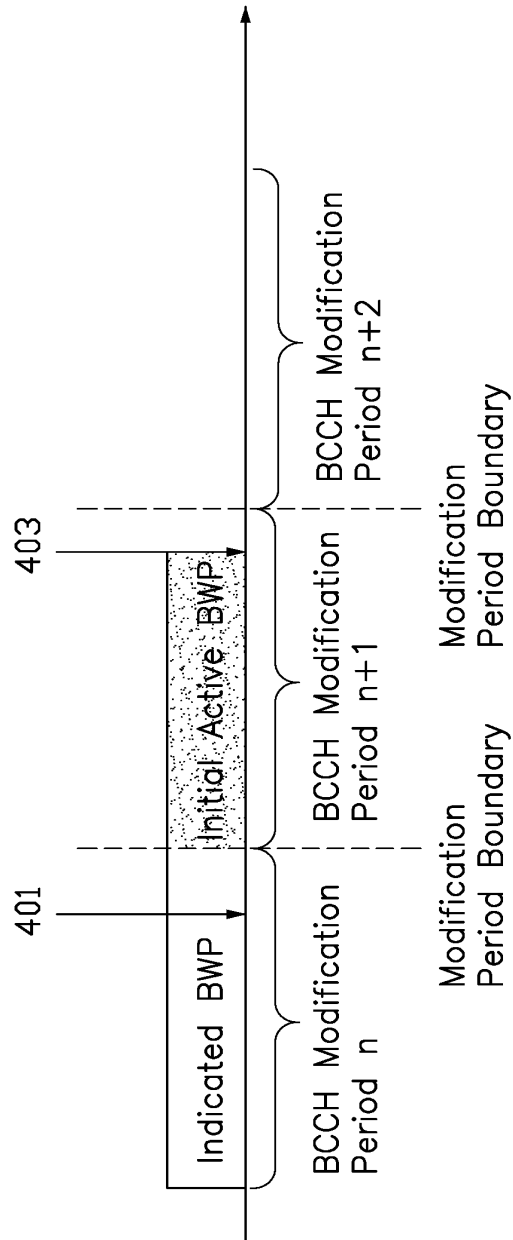


FIG. 4

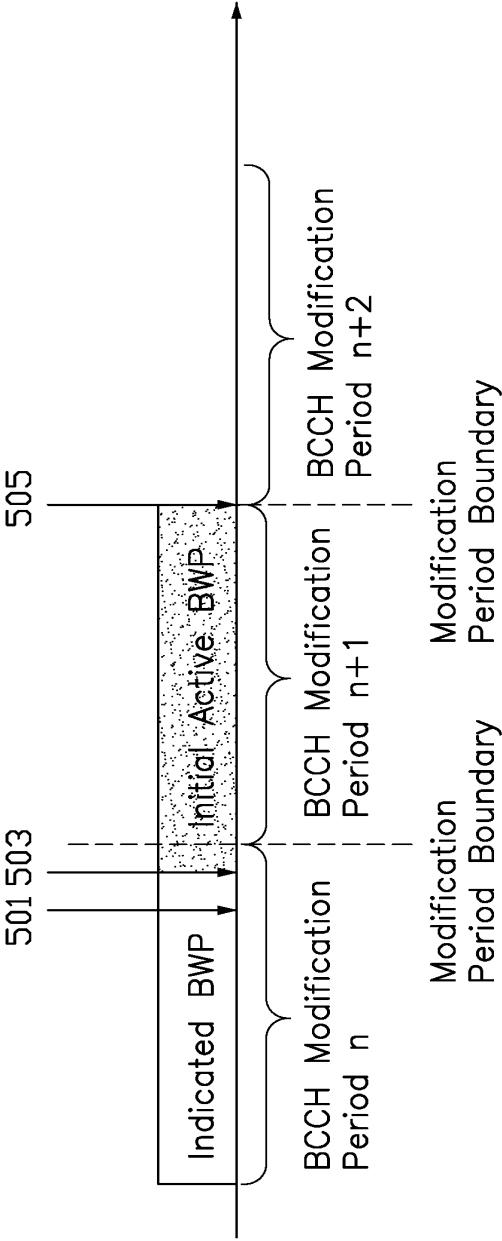


FIG. 5

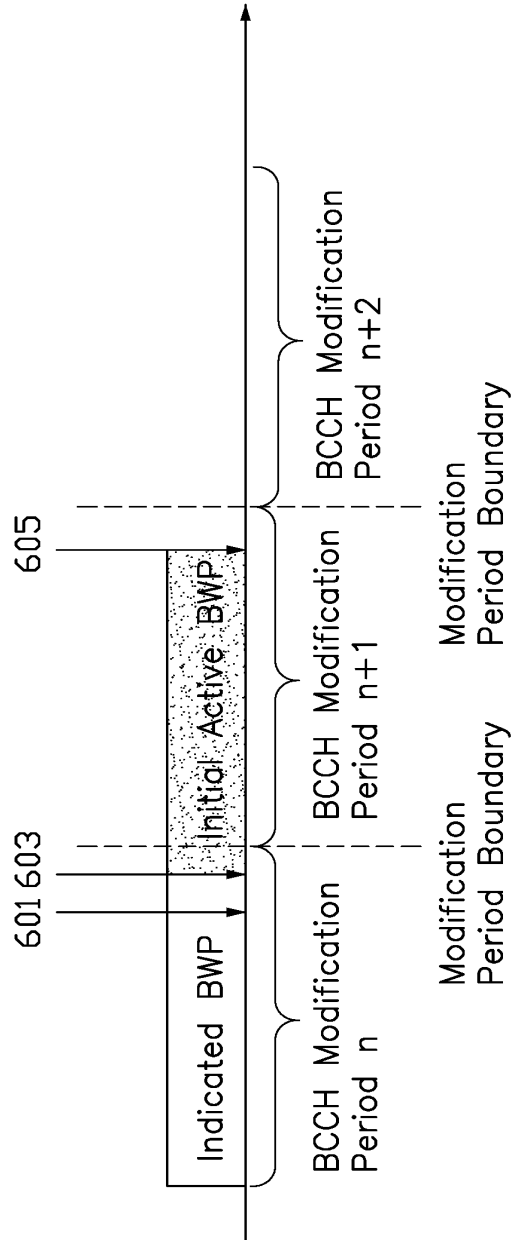


FIG. 6

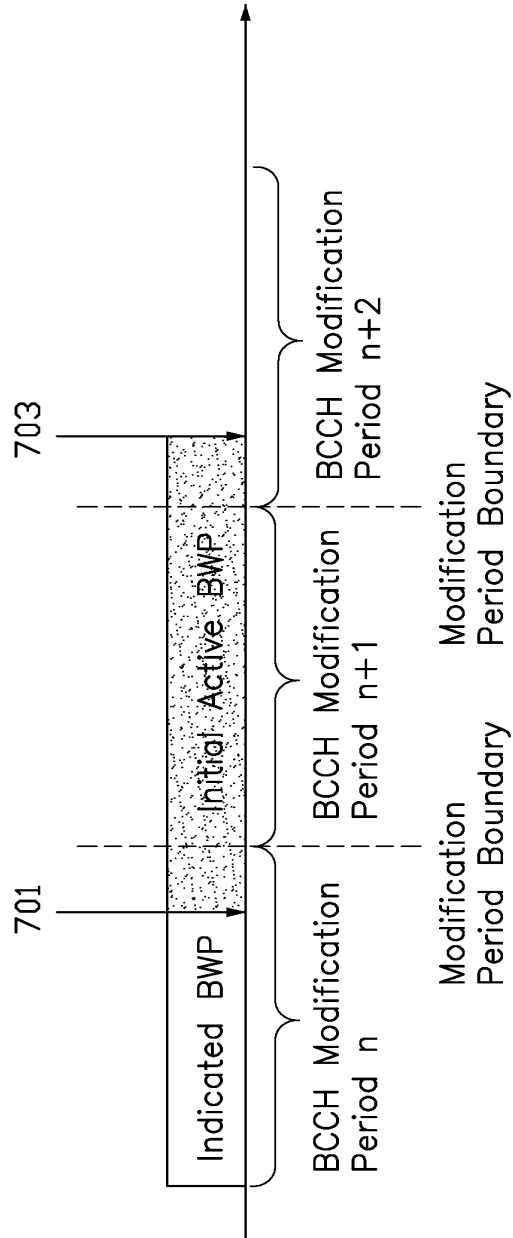


FIG. 7

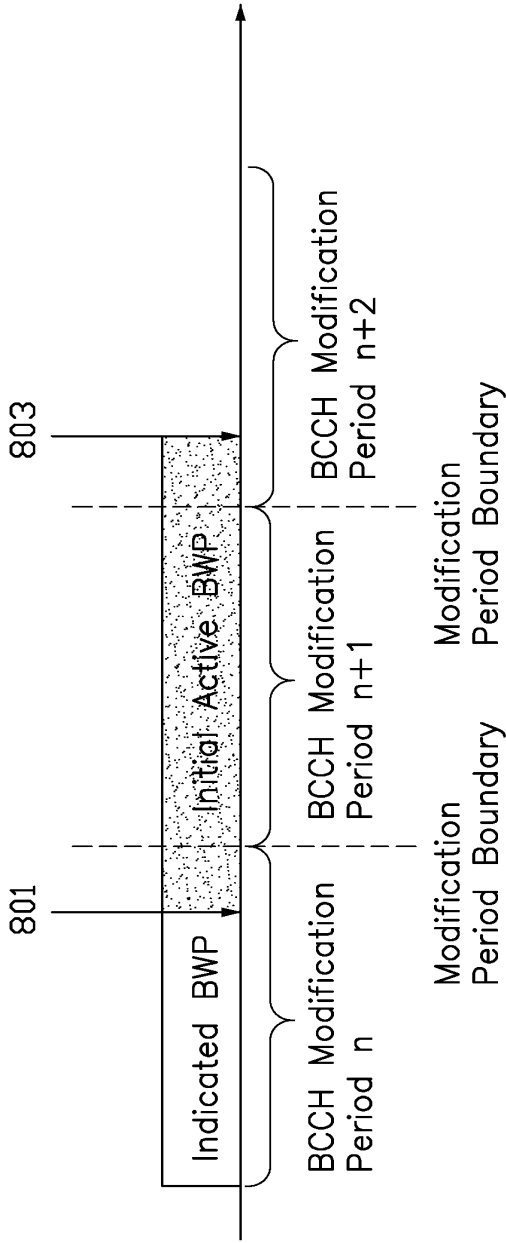


FIG. 8

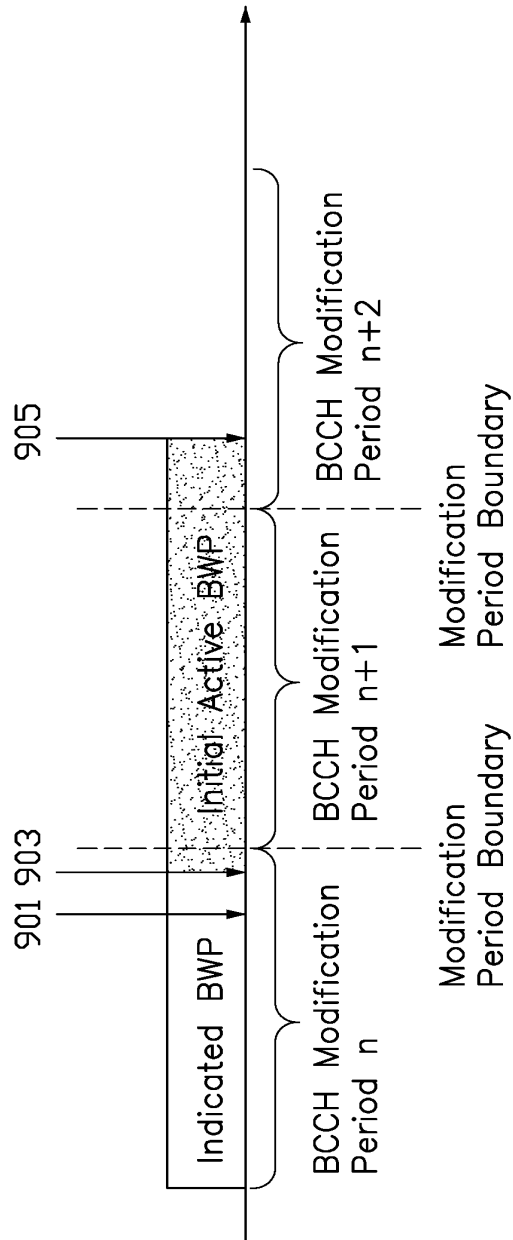


FIG. 9

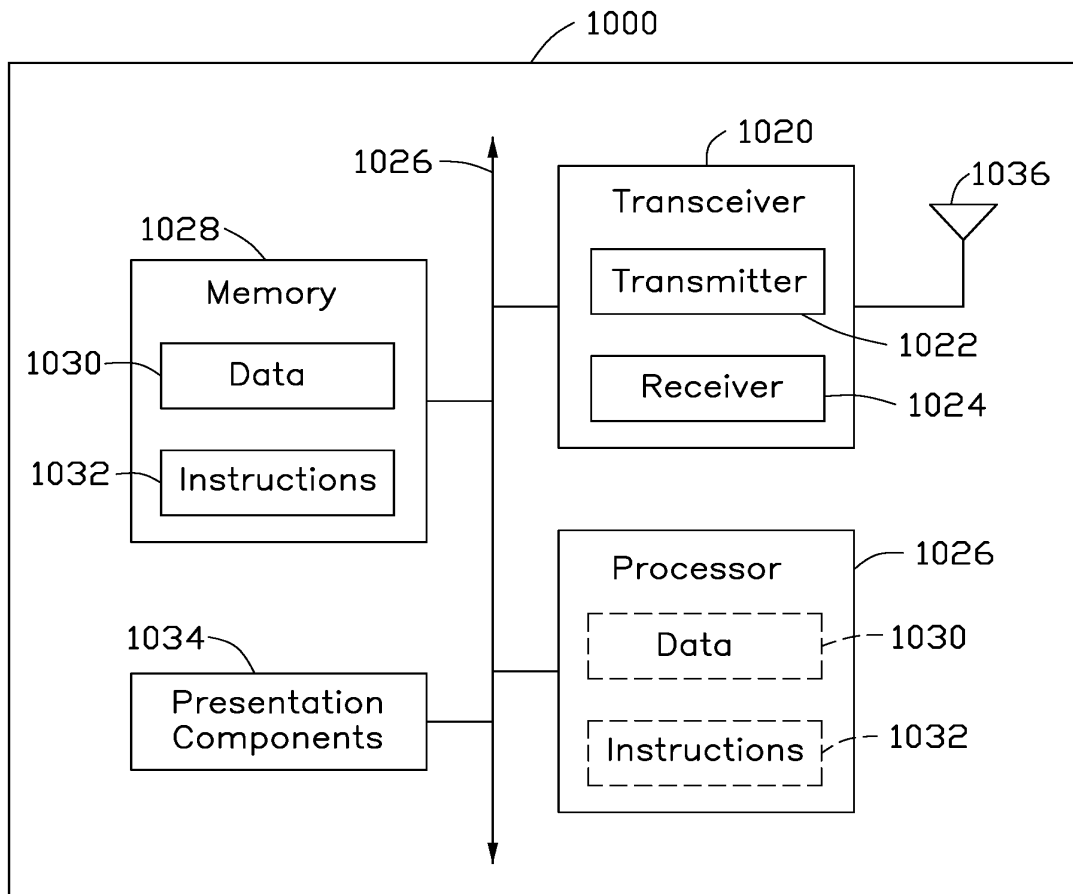


FIG. 10

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	SYSTEM INFORMATION UPDATES IN BAND WIDTH PART (BWP) SWITCH OPERATION	
As the below named inventor, I hereby declare that: This declaration is directed to: ☒ The attached application, or ☐ United States application or PCT international application number _____ filed on _____ The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.		
WARNING: Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.		
LEGAL NAME OF INVENTOR Inventor: <u>HUNG-CHEN CHEN</u> Date (Optional): <u>2018.10.31</u> Signature: <u>Hung-Chen Chen</u>		
Note: An application data sheet (PTO/SF/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.		

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, reviewing, and submitting this 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.

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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	SYSTEM INFORMATION UPDATES IN BAND WIDTH PART (BWP) SWITCH OPERATION
--------------------	--

As the below named inventor, I hereby declare that:

This declaration is directed to: ☒ The attached application, or ☐ United States application or PCT international application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

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LEGAL NAME OF INVENTOR

Inventor: CHIE-MING CHOU Date (Optional): _____

Signature: Chie Ming Chou

Note: An application data sheet (PTO/SE/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 1.11 and 1.14. This collection is estimated to take 1 minute 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 1460, Alexandria, VA 22313-1460.

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	US74884
		Application Number	
Title of Invention	SYSTEM INFORMATION UPDATES IN BAND WIDTH PART (BWP) SWITCH OPERATION		
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.			

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor	1				Remove	
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Prefix	Given Name	Middle Name	Family Name	Suffix		
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Residence Information (Select One) US Residency ☐ Non US Residency Active US Military Service						
City	Hsinchu		Country of Residence ⁱ	TW		
Mailing Address of Inventor:						
Address 1	4F., No.87, Ln. 28, Sec. 1, Tiedao Rd., East Dist.					
Address 2						
City	Hsinchu		State/Province			
Postal Code	300		Country ⁱ	TW		
Inventor	2				Remove	
Legal Name						
Prefix	Given Name	Middle Name	Family Name	Suffix		
	CHIE-MING		CHOU			
Residence Information (Select One) US Residency ☒ Non US Residency Active US Military Service						
City	Hsinchu		Country of Residence ⁱ	TW		
Mailing Address of Inventor:						
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Address 2	HSINCHU SCIENCE-BASED INDUSTRIAL PARK, TAIWAN					
City	Hsinchu		State/Province			
Postal Code	300		Country ⁱ	TW		
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.						
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Correspondence Information:

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	US74884
		Application Number	
Title of Invention	SYSTEM INFORMATION UPDATES IN BAND WIDTH PART (BWP) SWITCH OPERATION		

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ An Address is being provided for the correspondence information of this application.

Customer Number	54000		
Email Address	eoaproce@scienbizip.com	Add Email	Remove Email
Email Address	eoacbd@scienbizip.com	Add Email	Remove Email
Email Address	eoaproce@sbp-us.com		Remove Email

Application Information:

Title of the Invention	SYSTEM INFORMATION UPDATES IN BAND WIDTH PART (BWP) SWITCH OPERATION		
Attorney Docket Number	US74884	Small Entity Status Claimed	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	10	Suggested Figure for Publication (if any)	1

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

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Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	US74884
		Application Number	
Title of Invention	SYSTEM INFORMATION UPDATES IN BAND WIDTH PART (BWP) SWITCH OPERATION		
Please Select One:	☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	54000		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Claims benefit of provisional	62/586598	2017-11-15
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			Add

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)ⁱ the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ⁱ (if applicable)	Remove
Additional Foreign Priority Data may be generated within this form by selecting the Add button.				Add

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013. NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	US74884
		Application Number	
Title of Invention	SYSTEM INFORMATION UPDATES IN BAND WIDTH PART (BWP) SWITCH OPERATION		

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	US74884
		Application Number	
Title of Invention	SYSTEM INFORMATION UPDATES IN BAND WIDTH PART (BWP) SWITCH OPERATION		

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.			
Applicant	1		Remove
If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.			
		Clear	
☐ Assignee	Legal Representative under 35 U.S.C. 117		Joint Inventor
Person to whom the inventor is obligated to assign.		Person who shows sufficient proprietary interest	
If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:			
Name of the Deceased or Legally Incapacitated Inventor:			
If the Applicant is an Organization check here. ☒			
Organization Name	FG Innovation IP Company Limited		
Mailing Address Information For Applicant:			
Address 1	Flat 2623, 26/F Tuen Mun Central Square		
Address 2	22 Hoi Wing Road, Tuen Mun, New Territories, HK		
City	Tuen Mun	State/Province	
Country	CN	Postal Code	
Phone Number		Fax Number	
Email Address			
Additional Applicant Data may be generated within this form by selecting the Add button. Add			

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	US74884
		Application Number	
Title of Invention	SYSTEM INFORMATION UPDATES IN BAND WIDTH PART (BWP) SWITCH OPERATION		

Assignee 1				
Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.				
				Remove
If the Assignee or Non-Applicant Assignee is an Organization check here.				☐
Prefix	Given Name	Middle Name	Family Name	Suffix
Mailing Address Information For Assignee including Non-Applicant Assignee:				
Address 1				
Address 2				
City		State/Province		
Country i		Postal Code		
Phone Number		Fax Number		
Email Address				
Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.				Add

Signature:

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Calvin H Chai/		Date (YYYY-MM-DD)	2018-11-14
First Name	Calvin	Last Name	Chai	Registration Number
				68009
Additional Signature may be generated within this form by selecting the Add button.				Add

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	US74884
		Application Number	
Title of Invention	SYSTEM INFORMATION UPDATES IN BAND WIDTH PART (BWP) SWITCH OPERATION		

This collection of information is required by 37 CFR 1.76. 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 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet 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.**

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 the Freedom of Information Act requires disclosure of these records.
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 inspections 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 Patent Application Fee Transmittal				
Application Number:				
Filing Date:				
Title of Invention:		SYSTEM INFORMATION UPDATES IN BAND WIDTH PART (BWP) SWITCH OPERATION		
First Named Inventor/Applicant Name:		HUNG-CHEN CHEN		
Filer:		Calvin H Chai/RUONAN DONG		
Attorney Docket Number:		US74884		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
UTILITY APPLICATION FILING	1011	1	300	300
UTILITY SEARCH FEE	1111	1	660	660
UTILITY EXAMINATION FEE	1311	1	760	760
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1720

Electronic Acknowledgement Receipt	
EFS ID:	34315541
Application Number:	16191465
International Application Number:	
Confirmation Number:	6215
Title of Invention:	SYSTEM INFORMATION UPDATES IN BAND WIDTH PART (BWP) SWITCH OPERATION
First Named Inventor/Applicant Name:	HUNG-CHEN CHEN
Customer Number:	54000
Filer:	Calvin H Chai/RUONAN DONG
Filer Authorized By:	Calvin H Chai
Attorney Docket Number:	US74884
Receipt Date:	15-NOV-2018
Filing Date:	
Time Stamp:	03:47:14
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$1720
RAM confirmation Number	111518INTEFSW00007632505142
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	US74884181114POA.pdf	613221	no	2
			85c54eb301e80500908034018064e33fe97db29b		
Warnings:					
Information:					
2	Specification	US74884181114_Spec.pdf	128585	no	19
			fd68e48cb5ccd6b2f88aa4e812fd24d1243cbefb		
Warnings:					
Information:					
3	Claims	US74884181114_Clms.pdf	31769	no	3
			4befabb02206170c707cb6d36449101fd2fdfa6c		
Warnings:					
Information:					
4	Abstract	US74884181114_Abst.pdf	20721	no	1
			af419f40bb4373166791d75c2e50bcbcf00ab2f7		
Warnings:					
Information:					
5	Drawings-only black and white line drawings	US74884181114_draw.pdf	155986	no	10
			c5e5e941007add3c030187b0c6190eb9ad3cb173		
Warnings:					
Information:					
6	Oath or Declaration filed	US74884181114DEC.pdf	3640540	no	2
			8d9a761bc5c0f24bfcfb7209c1b58116846d42		
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Information:					
7	Application Data Sheet	US74884__ADS.pdf	1792814	no	8
			a29ad7ee51af158ed2eb3b4ed9edb023f527727f		
Warnings:					
Information:					
8	Fee Worksheet (SB06)	fee-info.pdf	34784	no	2
			b66daeeb2458c5f9e14906bd285f41f6790730c9		
Warnings:					
Information:					
Total Files Size (in bytes):			6418420		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					