

Issue Classification 	Application/Control No. 16/283,407	Applicant(s)/Patent Under Reexamination Zhang et al.
	Examiner BRIAN S ROBERTS	Art Unit 2466

INTERNATIONAL CLASSIFICATION			
CLAIMED			
H04W36/18	/	36	/ 18
NON-CLAIMED			
/	/		

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

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

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	43	
/BRIAN S ROBERTS/ Primary Examiner, Art Unit 2466	21 April 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	2

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	Examiner BRIAN S ROBERTS	Art Unit 2466

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

CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	11	10	21	19	31	28	41	37						
2	2	12	11	22	20	32	29	42	38						
3	3	13	12	23	21	34	30	43	39						
4	4	14	13	24	22	35	31	10	40						
5	5	15	14	25	23	36	32	19	41						
6	6	16	15	26	24	37	33	28	42						
7	7	17	16	27	25	38	34	33	43						
8	8	18	17	29	26	39	35								
9	9	20	18	30	27	40	36								

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 43	
/BRIAN S ROBERTS/ Primary Examiner, Art Unit 2466 (Primary Examiner) _____ (Date) _____		21 April 2020 (Date)	O.G. Print Claim(s) 1 O.G. Print Figure 2

Search Notes 	Application/Control No. 16/283,407	Applicant(s)/Patent Under Reexamination Zhang et al.
	Examiner BRIAN S ROBERTS	Art Unit 2466

CPC - Searched*		
Symbol	Date	Examiner

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

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

Search Notes		
Search Notes	Date	Examiner
PALM inventor search	04/21/2020	BSR
Search focused on: H04W36/18,00,169,0069,005,02,026,0011,30 H04L1/1887,1812,1893,12,18,1819,1867,189,1896,22 H04W88/ 08,02 H04W36/30 H04B7/022	04/21/2020	BSR
EAST text search: see search history printout	04/21/2020	BSR
IEEE Xplore "HARQ interference enhanced uplink"	04/21/2020	BSR

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
Interference search	See search history printout	04/21/2020	BSR

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	8991	(enhanc\$3 near2 uplink or ("e-dch"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 15:21
S2	589	(enhanc\$3 near2 uplink or ("e-dch")) and HARQ and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 15:22
S3	637	(enhanc\$3 near2 uplink or ("e-dch")) and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 15:23
S4	637	((enhanc\$3 near2 uplink) or ("e-dch")) and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 15:23
S5	459	H04L1/1887.cpc. and (enhanc\$3 near2 uplink or ("e-dch"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 15:58

S6	459	H04L1/1887.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 16:04
S7	350	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 16:21
S8	6	"20030002470".pn. "20030031119".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 16:30
S9	71	"5794149".pn. "5946320".pn. "6434396".pn. "6643813".pn. "6678523".pn. "6907245".pn. "6915465".pn. "6977888".pn. "7046648".pn. "7054633".pn. "7103729".pn. "7124350".pn. "7158504".pn. "7185256".pn. "7269420".pn. "7283508".pn. "7315741".pn. "7317700".pn. "7403513".pn. "8023463".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 16:47
S10	70	H04L1/1893.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 16:53
S11	16	"20020093937".pn. "20030081692".pn. "20030202500".pn. "20060045010".pn. "20060105796".pn. "20070079207".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2015/02/19 16:54

			DERWENT; IBM_TDB			
S12	3	"20030003943".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 16:55
S13	66	"6678249".pn. "6778830".pn. "6892071".pn. "7013143".pn. "7346035".pn. "7414989".pn. "20020095635".pn. "20020191544".pn. "20030007480".pn. "20030043786".pn. "20030054824".pn. "20030081692".pn. "20030161284".pn. "20030210668".pn. "20040004954".pn. "20040072567".pn. "20040085934".pn. "20040120306".pn. "20040160925".pn. "20040202129".pn. "20040203991".pn. "20040219917".pn. "20040219919".pn. "20040219920".pn. "20040228313".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 17:13
S14	15	"20050041694".pn. "20050047354".pn. "20050048920".pn. "20050083888".pn. "20070047501".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 17:19
S15	0	H04L1/12.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 20:33
S16	314	H04L1/12.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 20:34

S17	637	((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 10:58
S18	77	H04L1/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 12:38
S19	884	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 12:52
S20	107	H04L1/1816.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 14:11
S21	178	H04L1/1819.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 14:27
S22	201	H04L1/1867.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 14:44

S23	49	H04L1/189.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 15:01
S24	105	H04L1/1896.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 15:16
S25	2	H04L1/22.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 15:30
S26	101	H04B7/022.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 15:34
S27	154	H04W36/30.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 16:03
S28	30	H04W36/00.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 16:20

S29	71	H04W36/02.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 16:37
S30	10	H04W36/16.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 16:44
S31	350	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 16:45
S32	10	"8457072".pn. "8130720".pn. "7046648".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 17:12
S33	2	"20040219917".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 17:13
S34	2273255	"73"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 17:14

S35	2	"7346035".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 17:14
S36	6	"8130720".pn. "8457072".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 17:32
S37	19	H04W36/24.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 17:44
S38	4	H04W36/26.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 17:46
S39	7	H04W36/28.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 17:46
S40	4	H04W36/34.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 17:47

S41	3	H04W36/38.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 17:48
S42	261	H04W88/08.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 18:03
S46	0	"6754496".pn. and "7206598".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 15:19
S48	9	"6754496".pn. "7206598".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 15:27
S49	9371	(enhanc\$3 near2 uplink or ("e-dch"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 15:37
S50	614	(enhanc\$3 near2 uplink or ("e-dch")) and HARQ and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 15:38

S51	665	((enhanc\$3 near2 uplink) or ("e-dch")) and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 15:38
S52	496	H04L1/1887.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 15:38
S53	362	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 16:11
S54	73	H04L1/1893.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 16:52
S55	305	H04L1/12.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 17:09
S56	909	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 17:53

S57	909	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 19:40
S58	110	H04L1/1816.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 20:39
S59	188	H04L1/1819.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 20:44
S60	111	H04L1/1896.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 21:05
S61	2	H04L1/22.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 21:13
S62	104	H04B7/022.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 21:13

S63	161	H04W36/30.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 21:23
S64	72	H04W36/02.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 21:36
S65	10	H04W36/16.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 21:44
S66	362	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 21:53
S67	20	H04W36/24.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 22:27
S68	4	H04W36/26.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 22:28

S69	4	H04W36/26.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 22:28
S70	7	H04W36/28.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 22:28
S71	4	H04W36/34.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 22:29
S72	289	H04W88/08.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 22:30
S73	614	((enhanc\$3 near2 uplink or ("e-dch")) and HARQ and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/23 11:55
S74	1148	((enhanc\$3 near2 uplink or ("e-dch")) and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/23 11:55

S78	936	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/14 14:54
S79	380	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/14 17:26
S80	680	((enhanc\$3 near2 uplink) or ("e-dch")) and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/14 18:05
S81	47	H04L1/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/14 19:49
S82	114	H04L1/1816.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/14 20:03
S83	195	H04L1/1819.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/14 20:12

S84	206	H04L1/1867.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/14 20:28
S85	51	H04L1/189.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/14 20:47
S86	115	H04L1/1896.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/14 20:57
S87	103	H04B7/022.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/14 21:08
S88	164	H04W36/30.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/14 21:23
S89	307	H04W88/08.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/14 21:39

S90	629	(enhanc\$3 near2 uplink or ("e-dch")) and HARQ and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/17 10:22
S91	5	"20120155304".pn. "20120039271".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/17 13:30
S92	2	"20120322492".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/17 13:55
S93	2	"20140254516".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/17 14:01
S94	0	"20090247206,pn."	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/17 14:11
S95	0	"20090247206.pn."	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/17 14:11

S96	2	"20090247206".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/17 14:11
S97	5	"6507567".pn. "20030131124".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/17 15:39
S101	639	((enhanc\$3 near2 uplink or ("e-dch")) and HARQ and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/05 19:26
S102	970	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/05 20:59
S103	311	H04W88/08.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/06 07:31
S104	393	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/06 08:26

S105	527	H04L1/1887.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/20 19:03
S106	79	H04L1/1893.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/20 19:41
S107	0	H04L1/12.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/20 19:53
S108	170	H04W36/30.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/20 19:54
S109	30	H04W36/00.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/20 20:08
S110	76	H04W36/02.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/20 20:15

S111	11	H04W36/16.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/20 20:24
S112	401	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/20 20:26
S113	19	H04W36/24.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/20 21:03
S114	4	H04W36/26.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/20 21:12
S115	7	H04W36/28.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/20 21:15
S116	4	H04W36/34.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/20 21:17

S117	4	H04W36/38.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/20 21:22
S118	0	H04W88/00.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/20 21:26
S119	12891	H04W36/18.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/20 21:39
S120	401	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/21 11:28
S121	1005	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/21 12:05
S122	400	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/27 18:44

S123	527	H04L1/1887.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/27 19:04
S124	79	H04L1/1893.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/27 20:35
S125	0	H04L1/12.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/27 20:43
S126	50	H04L1/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/27 20:44
S127	1005	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/27 20:50
S128	119	H04L1/1816.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/27 21:49

S129	7623	H04L1/1819.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/27 21:56
S130	242	H04L1/1819.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/28 12:56
S131	209	H04L1/1867.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/28 13:15
S132	54	H04L1/189.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/28 13:44
S133	122	H04L1/1896.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/28 15:41
S134	2	H04L1/22.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/28 17:04

S135	4126	H04L1/22.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/28 19:16
S136	107	H04B7/022.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/29 15:06
S137	169	H04W36/30.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/29 15:35
S138	31	H04W36/00.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/29 16:20
S139	76	H04W36/02.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/29 16:45
S140	11	H04W36/16.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/29 16:49

S141	400	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/29 16:55
S142	19	H04W36/24.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/29 17:14
S143	4	H04W36/26.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/29 17:15
S144	10	H04W36/28.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/29 17:15
S145	4	H04W36/34.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/29 17:16
S146	4	H04W36/38.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/29 17:16

S147	329	H04W88/08.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/29 17:16
S148	3580	(enhanc\$3 near2 uplink or ("e-dch")) and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/29 17:27
S149	3580	(enhanc\$3 near2 uplink or ("e-dch")) and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/29 19:44
S150	3580	(enhanc\$3 near2 uplink or ("e-dch")) and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/31 18:36
S154	689	(enhanc\$3 near2 uplink or ("e-dch")) and HARQ and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 13:24
S155	17	"7046648".pn. "8130720".pn. "8457072".pn. "9215636".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 13:36

S156	8	"7283509".pn. "7366538".pn. "20010020285".pn. "20020115467".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 13:56
S157	1176	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 14:18
S158	504	H04W88/08.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 14:23
S159	436	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:06
S160	570	H04L1/1887.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:07
S161	93	H04L1/1893.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:15

S162	0	H04L1/12.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:16
S163	198	H04W36/30.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:16
S164	36	H04W36/00.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:18
S165	79	H04W36/02.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:20
S166	13	H04W36/16.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:22
S167	436	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:22

S168	21	H04W36/24.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:25
S169	7	H04W36/26.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:25
S170	10	H04W36/28.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:25
S171	4	H04W36/34.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:25
S172	6	H04W36/38.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:26
S173	436	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:26

S174	1176	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:27
S175	125	H04L1/1816.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:31
S176	256	H04L1/1819.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:31
S177	214	H04L1/1867.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:44
S178	1553	(enhanc\$3 near2 uplink or ("e-dch")) and HARQ and ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:47
S179	1645	(enhanc\$3 near2 uplink or ("e-dch")) and (HARQ or (hybrid near2 automatic near2 repeat near2 request\$4)) and ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:48

S180	702	((enhanc\$3 near2 uplink or ("e-dch")) and HARQ and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/05 15:41
S181	1227	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/05 16:05
S182	516	H04W88/08.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/05 17:12
S183	442	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/05 18:28
S184	578	H04L1/1887.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/05 19:16
S185	1227	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/05 20:28

S186	94	H04L1/1893.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/06 09:59
S187	0	H04L1/12.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/06 12:07
S188	203	H04W36/30.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/06 12:07
S189	35	H04W36/00.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/06 12:11
S190	80	H04W36/02.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/06 12:13
S191	14	H04W36/16.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/06 12:17

S192	442	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/06 12:20
S193	22	H04W36/24.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/06 12:35
S194	9	H04W36/26.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/06 12:38
S195	11	H04W36/28.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/06 12:38
S196	4	H04W36/34.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/06 12:41
S197	6	H04W36/38.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/06 12:45

S198	1674	(enhanc\$3 near2 uplink or ("e-dch")) and (HARQ or (hybrid near2 automatic near2 repeat near2 request\$4)) and ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/06 12:45
S199	702	(enhanc\$3 near2 uplink or ("e-dch")) and HARQ and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/06 13:18
S203	10	"716167".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/07 12:22
S204	2	"7169167".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/07 12:23
S205	1889	(enhanc\$3 near2 uplink or ("e-dch")) and (HARQ or (hybrid near2 automatic near2 repeat near2 request\$4)) and ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/08 17:07
S206	4	"20140294884".pn. "20140349647".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/08 17:25

S207	827	((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/08 18:26
S208	57	H04L1/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/09 08:06
S209	1479	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/09 08:06
S210	4	"5530841".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/10 10:35
S211	3	"5680318".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/10 10:36
S212	546	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 16:01

S213	116	H04L1/1893.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 16:05
S214	1490	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 16:09
S215	150	H04L1/1816.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 16:35
S216	1	("7283782").PN.	US-PGPUB; USPAT	OR	ON	2017/05/17 16:53
S217	2	("20020115460" "20020172208").PN.	US-PGPUB; USPAT	OR	ON	2017/05/17 16:54
S218	3	("6850771" "7428424" "9348381").PN.	US-PGPUB; USPAT	OR	ON	2017/05/17 16:54
S219	1	("7026911").PN.	US-PGPUB; USPAT	OR	ON	2017/05/17 16:54
S220	5	("6650905" "6754496" "6977888" "7065359" "7185256" "B2").PN.	US-PGPUB; USPAT	OR	ON	2017/05/17 16:54
S221	305	H04L1/1819.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 16:59

S222	234	H04L1/1867.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 17:04
S223	69	H04L1/189.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 17:12
S224	159	H04L1/1896.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 17:16
S225	2	H04L1/22.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 17:33
S226	546	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 17:34
S227	137	H04B7/022.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 17:34

S228	272	H04W36/30.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 17:46
S229	29	H04W36/00.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 18:19
S230	91	H04W36/02.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 18:21
S231	14	H04W36/16.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 19:02
S232	1897	((enhanc\$3 near2 uplink) or ("e-dch")) and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 19:02
S233	1794	(enhanc\$3 near2 uplink or ("e-dch")) and HARQ and ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/18 10:50

S234	546	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/18 11:38
S235	14	H04W36/24.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/18 14:58
S236	10	H04W36/26.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/18 14:58
S237	14	H04W36/28.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/18 14:59
S238	4	H04W36/34.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/18 15:00
S239	13	H04W36/38.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/18 15:00

S240	679	H04W88/08.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/18 15:01
S244	584	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 13:33
S245	82	("0032007" "0042007" "20010020285" "20020093937" "20020095635" "20020115460" "20020115467" "20020172208" "20020191544" "20030002470" "20030007480" "20030031119" "20030043786" "20030054824" "20030081692" "20030131124" "20030147370" "20030161284" "20030171118" "20030176195" "20030202500" "20030210668" "20040004954" "20040072567" "20040085934" "20040120306" "20040160925" "20040202129" "20040203991" "20040219917" "20040219919" "20040219920" "20040228313" "20050041694" "20050047354" "20050048920" "20050083888" "20060045010" "20060105796" "20060274712" "5794149" "5946320" "6434396" "6507567" "6628631" "6643813" "6650905" "6678249" "6678523" "6754496" "6778830" "6850771" "6892071" "6907245" "6915465" "6977888" "7013143" "7026911" "7046648" "7054633" "7065359" "7103729" "7124350" "7158504" "7185256" "7206598" "7269420" "7283508" "7283509" "7283782" "7315741" "7317700" "7346035" "7366538" "7403513" "7414989" "7428424" "7848290" "7903610"	US-PGPUB; USPAT	OR	ON	2018/06/13 13:39

		"8023463" "8682325" "9438381").PN.				
S246	126	H04L1/1893.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 13:47
S247	1620	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 13:52
S248	169	H04L1/1816.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 14:08
S249	321	H04L1/1819.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 14:15
S250	244	H04L1/1867.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 14:22
S251	79	H04L1/189.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2018/06/13 14:25

			DERWENT; IBM_TDB			
S252	167	H04L1/1896.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 14:30
S253	2	H04L1/22.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 14:38
S254	584	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 14:38
S255	144	H04B7/022.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 14:50
S256	584	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 14:55
S257	144	H04B7/022.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2018/06/13 15:05

			DERWENT; IBM_TDB			
S258	302	H04W36/30.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 15:18
S259	30	H04W36/00.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 15:32
S260	30	H04W36/00.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 15:32
S261	98	H04W36/02.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 15:33
S262	14	H04W36/16.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 15:33
S263	2134	((enhanc\$3 near2 uplink) or ("e-dch")) and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and ((handover) or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2018/06/13 15:33

		(handoff) or (hand\$3 near over) or (hand\$3 near2 off))	DERWENT; IBM_TDB			
S264	2355	((enhanc\$3 near2 uplink) or ("e-dch")) and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 16:18
S268	593	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 10:26
S269	147	H04B7/022.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 10:31
S270	147	H04B7/022.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 10:32
S271	309	H04W36/30.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 10:35
S272	31	H04W36/00.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2018/10/04 10:45

			DERWENT; IBM_TDB			
S273	100	H04W36/02.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 11:00
S274	14	H04W36/16.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 11:00
S275	2418	((enhanc\$3 near2 uplink) or ("e-dch")) and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 11:01
S276	593	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 11:15
S277	18	H04W36/24.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 11:15
S278	11	H04W36/26.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2018/10/04 11:17

			DERWENT; IBM_TDB			
S279	16	H04W36/28.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 11:17
S280	147	H04B7/022.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 11:17
S281	18	H04W36/24.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 11:20
S282	18	H04W36/38.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 11:24
S283	2	"9763156".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 12:06
S284	4	("5628631" "7277407" "7433337" "7606205").PN.	US-PGPUB; USPAT	OR	ON	2018/10/04 12:10
S288	3	("7266384" "7519016" "7558230").PN.	US-PGPUB; USPAT	OR	ON	2019/01/09 11:49

S289	1	("7974630").PN.	US-PGPUB; USPAT	OR	ON	2019/01/22 15:09
S290	5	"9918318".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/01/22 17:08
S291	72276	((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:21
S292	42056	((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and (ACK or NACK)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:23
S293	33223	((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and ACK and NACK	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:24
S294	92	("0032007" "0042007" "0122006" "20010020285" "20020093937" "20020095635" "20020115460" "20020115467" "20020172208" "20020191544" "20030002470" "20030007480" "20030031119" "20030043786" "20030054824" "20030081692" "20030131124" "20030147370" "20030161284" "20030171118" "20030176195" "20030202500" "20030210668" "20040004954" "20040072567" "20040085934" "20040120306" "20040160925" "20040202129"	US-PGPUB; USPAT	OR	ON	2019/10/30 10:26

		"20040203991" "20040219917" "20040219919" "20040219920" "20040228313" "20050041694" "20050047354" "20050048920" "20050083888" "20060045010" "20060105796" "5628631" "5794149" "5933787" "5946320" "6434396" "6507567" "6628631" "6643813" "6650905" "6678249" "6678523" "6690939" "6754496" "6778830" "6850771" "6892071" "6907245" "6915465" "6977888" "7013143" "7026911" "7046648" "7054633" "7065359" "7103729" "7124350" "7158504" "7185256" "7206598" "7266384" "7269420" "7277407" "7283508" "7283509" "7283782" "7315741" "7317700" "7346035" "7366538" "7403513" "7414989" "7428424" "7433337" "7519016" "7558230" "7606205" "7848290" "7903610" "7974630" "8023463" "8682325" "9438381").PN.				
S295	8	"10219196".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 11:09
S296	62	h-arq near2 process near2 (id or identification)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 11:32
S297	1833	harq near2 process near2 (id or identification)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 12:34

S298	1654	harq near process near (id or identification)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 12:34
S299	1662	((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) near process near (id or identification)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 12:35
S300	1311	((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) near process near (id or identification) and (hybrid near2 automatic near2 repeat\$3 near2 request\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 12:36
S301	13071	((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) near2 process and (hybrid near2 automatic near2 repeat\$3 near2 request\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 13:59
S302	3402	((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) near3 (ID or identifier or identif\$8) and (hybrid near2 automatic near2 repeat\$3 near2 request\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 14:05
S303	3562	((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) near3 (ID or identifier or identif\$8) and (hybrid near2 automatic near2 repeat\$3 near2 request\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 14:05

S304	2	"6678523".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 14:16
S305	2	"20030123470".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 14:17
S306	677	H04W36/18.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 14:44
S307	240	H04W36/00.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 14:53
S308	66	H04W36/16.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 14:58
S309	397	H04W36/0069.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 15:01

S310	3	"20120096513".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 15:02
S311	23	H04W36/005.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 15:07
S312	351	H04W36/02.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 15:10
S313	36	H04W36/026.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 15:12
S314	125	H04W36/0011.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 15:14
S315	841	H04W36/30.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 15:28

S316	5788	H04L1/1887.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 16:06
S323	13426	H04L1/1812.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 17:13
S324	3764	H04L1/1812.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and (uplink or revers\$4) with schedul\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 17:15
S325	2	("10390279" "7372898").PN.	US-PGPUB; USPAT	OR	ON	2019/10/30 19:34
S326	2210	H04W88/08.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and (uplink or revers\$4) with schedul\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/31 08:37
S327	2247	H04W88/02.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and (uplink or revers\$4) with schedul\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/31 12:32
S328	450	H04W36/30.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and (uplink or revers\$4) with schedul\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/10/31 14:51

			DERWENT; IBM_TDB			
S329	136	H04B7/022.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and (uplink or revers\$4) with schedul\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/31 15:25
S333	4772	((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH")) and interference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/07 15:53
S334	94	("10390279" "7372898" "0032007" "0042007" "0052006" "0122006" "20010020285" "20020093937" "20020095635" "20020115460" "20020115467" "20020172208" "20020191544" "20030002470" "20030007480" "20030031119" "20030043786" "20030054824" "20030081692" "20030131124" "20030147370" "20030161284" "20030171118" "20030176195" "20030202500" "20030210668" "20040004954" "20040072567" "20040085934" "20040120306" "20040160925" "20040202129" "20040203991" "20040219917" "20040219919" "20040219920" "20040228313" "20050041694" "20050047354" "20050048920" "20050083888" "20060045010" "5628631" "5794149" "5933787" "5946320" "6434396" "6507567" "6628631" "6643813" "6650905" "6678249" "6678523" "6690939" "6754496" "6778830" "6850771" "6892071" "6907245" "6915465" "6977888" "7013143" "7026911" "7046648" "7054633" "7065359" "7103729" "7124350" "7158504" "7185256" "7206598" "7266384"	US-PGPUB; USPAT	OR	ON	2019/11/07 15:55

		"7269420" "7277407" "7283508" "7283509" "7283782" "7315741" "7317700" "7346035" "7366538" "7403513" "7414989" "7428424" "7433337" "7519016" "7558230" "7606205" "7848290" "7903610" "7974630" "8023463" "8682325" "9438381").PN.				
S335	216	H04B7/022.cpc. and ((HARQ) or (H- ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 09:39
S336	580	H04W36/30.cpc. and ((HARQ) or (H- ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 09:40
S337	2196	H04W88/02.cpc. and ((HARQ) or (H- ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 09:41
S338	2371	H04W88/08.cpc. and ((HARQ) or (H- ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 10:27
S339	1695	H04L1/1887.cpc. and ((HARQ) or (H- ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 10:46

S340	4108	H04L1/1812.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 10:52
S341	1287	H04L1/1812.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 11:22
S342	224	H04L1/1893.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 11:29
S343	316	H04W36/18.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 11:33
S344	98	H04W36/00.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 11:42
S345	316	H04W36/18.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 11:54

S346	0	H04W36/169.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 11:54
S347	198	H04W36/0069.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 11:54
S348	8	"10219196".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 11:59
S349	121	H04L1/1893.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 12:24
S350	1589	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 12:24
S351	171	H04L1/1816.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 12:25

S352	0	H04W36/0053.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 12:28
S353	4	H04W36/005.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 12:28
S354	79	H04W36/02.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 12:28
S355	316	S343	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 12:28
S356	22	H04W36/026.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 12:29
S357	56	H04W36/0011.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 12:29

S358	507	H04W36/30.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 12:29
S362	739	H04W36/18.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/20 09:17
S363	301	H04W36/00.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/20 09:42
S364	81	H04W36/16.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/20 09:42
S365	22	H04W36/005.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/20 10:02
S366	379	H04W36/02.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/20 10:03

S367	40	H04W36/026.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/20 10:07
S368	140	H04W36/0011.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/20 10:08
S369	939	H04W36/30.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/20 10:08
S370	2426	H04W88/02.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/20 12:54
S371	2583	H04W88/08.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/20 12:55
S372	1945	H04L1/1887.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/20 13:45

S373	4488	H04L1/1812.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/20 13:46
S374	190	H04L1/1816.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/21 10:43
S375	0	H04W36/0053.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/21 10:43
S379	3	"20190090293".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/21 12:10
S380	3	"20190021014".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/21 12:12

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Doc code: IDS

PTO/SB/08a (02-18)

Doc description: Information Disclosure Statement (IDS) Filed

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

Application Number	16283407
Filing Date	2019-02-22
First Named Inventor	Guodong Zhang
Art Unit	2466
Examiner Name	Brian S. Roberts
Attorney Docket Number	SIG-2-0674US08

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	2	20050207374	A1	2005-09-22	Petrovic et al.	

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Examiner Name	Brian S. Roberts
Attorney Docket Number	SIG-2-0674US08

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
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Examiner Name	Brian S. Roberts
Attorney Docket Number	SIG-2-0674US08

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

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OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Joseph P. Gushue/	Date (YYYY-MM-DD)	2019-11-14
Name/Print	Joseph P. Gushue	Registration Number	59,819

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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.

Doc code: IDS

PTO/SB/08a (02-18)

Doc description: Information Disclosure Statement (IDS) Filed

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Application Number	16283407
Filing Date	2019-02-22
First Named Inventor	Zhang et al.
Art Unit	2466
Examiner Name	ROBERTS, BRIAN S
Attorney Docket Number	SIG-2-0674US08

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Filing Date	2019-02-22
First Named Inventor	Zhang et al.
Art Unit	2466
Examiner Name	ROBERTS, BRIAN S
Attorney Docket Number	SIG-2-0674US08

1	ERICSSON, "E-DCH multiplexing and transport channel structure," TSG-RAN Working Group 2 meeting #42, Tdoc R2-040917, Montreal, Canada, (May 2004).
2	HOLMA ET AL., "WCDMA For UMTS – Radio Access For Third Generation Mobile Communications," First Edition, (2000).
3	THIRD GENERATION PARTNERSHIP PROJECT, "Technical Specification Group Radio Access Network, FDD Enhanced Uplink, Overall description, Stage 2 (Release 6)," 3GPP TS 25.309 V0.2.0 (June 2004).

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Examiner Signature	/BRIAN S ROBERTS/	Date Considered	04/20/2020
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☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

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Signature	/Joseph P. Gushue/	Date (YYYY-MM-DD)	2020-03-25
Name/Print	Joseph P. Gushue	Registration Number	59,819

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the **PATENT APPLICATION** of:

Zhang et al.

Application No.: 16/283,407

Confirmation No.: 6561

Filed: February 22, 2019

For: SUPPORTING
ENHANCED UPLINK TRANSMISSION
DURING SOFT HANDOVER

Group: 2466

Examiner: Brian S. Roberts

Our File: SIG-2-0674US08

Date: June 4, 2020

**AMENDMENT AFTER ALLOWANCE
PURSUANT TO 37 C.F.R. §1.312**

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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This Amendment is submitted further to the Notice of Allowance dated
April 27, 2020.

Please amend the application in accordance with 37 C.F.R. §1.312 as follows:

Amendments to the Claims:

This listing of the claims will replace all prior versions of the claims in the application:

1. (Currently Amended) A method for communicating by a wireless transmit/receive unit (WTRU) during a handover process between ~~from~~ a primary cell and to a non-primary cell, the method comprising:

receiving scheduling information from the primary cell;

transmitting, via the primary cell and the non-primary cell, enhanced uplink (EU) data according to the scheduling information, wherein the WTRU transmits the EU data using uplink resources specified for the WTRU in the scheduling information and such that a level of interference at the primary cell and a level of interference at the non-primary cell are controlled;

processing hybrid automatic repeat request (HARQ) acknowledgements (ACKs) from the primary cell; and

processing negative acknowledgements (NACKs) from the primary cell and not from the non-primary cell.

2. (Previously Presented) The method of claim 1, further comprising:

receiving an identifier indicating the primary cell and the non-primary cell.

3. (Previously Presented) The method of claim 1, further comprising:
transmitting downlink power measurements of transmissions received by the
WTRU.

4. (Previously Presented) The method of claim 1, wherein the EU data
includes identification information of the WTRU.

5. (Previously Presented) The method of claim 1, wherein the
scheduling information includes any one or a combination of a HARQ process
identification and a transmit power level of the WTRU.

6. (Previously Presented) The method of claim 1, further comprising:
transmitting the EU data using synchronous HARQ.

7. (Previously Presented) The method of claim 1, wherein the EU data
is transmitted in accordance with the received scheduling information.

8. (Previously Presented) The method of claim 1, further comprising:

retransmitting the EU data from the WTRU via the primary cell and the non-primary cell upon receipt of a NACK.

9. (Previously Presented) The method of claim 1, wherein the handover process is a soft handover.

10. (Currently Amended) A wireless network comprising a plurality of Node-Bs configured to communicate with a wireless transmit/receiver unit (WTRU) during a handover process between ~~from~~ a first Node-B of the plurality of Node-Bs and to ~~a~~ second Node-B of the plurality of Node-Bs by:

transmitting scheduling information to the WTRU via the first Node-B;

receiving enhanced uplink (EU) data from the WTRU at the first Node-B and the second Node-B according to the scheduling information, wherein the EU data is received using uplink resources specified for the WTRU in the scheduling information and such that a level of interference at the first Node-B and a level of interference at the second Node-B are controlled;

transmitting hybrid automatic repeat request (HARQ) acknowledgements (ACKs) to the WTRU via the first Node-B; and

transmitting negative acknowledgements (NACKs) to the WTRU via the first Node-B and not via the second Node-B.

11. (Previously Presented) The wireless network of claim 10, wherein the first Node-B controls a primary cell and the second Node-B controls a non-primary cell.

12. (Previously Presented) The wireless network of claim 10, further comprising:

a radio network controller (RNC) to transmit to the plurality of Node-Bs an identifier indicating the first Node-B and the second Node-B.

13. (Previously Presented) The wireless network of claim 10, wherein the plurality of Node-Bs is further configured to receive, from the WTRU, downlink power measurements of transmissions received by the WTRU.

14. (Previously Presented) The wireless network of claim 10, wherein the EU data includes identification information of the WTRU.

15. (Previously Presented) The wireless network of claim 10, wherein the scheduling information includes any one or a combination of a HARQ process identification and a transmit power level of the WTRU.

16. (Previously Presented) The wireless network of claim 10, wherein the first and second Node-Bs are further configured to receive the EU data using synchronous HARQ.

17. (Previously Presented) The wireless network of claim 10, wherein the handover process is a soft handover.

18. (Currently Amended) A Node B comprising:
at least one transceiver; and
a processor;
wherein, when the Node B is performing an intra-Node B handover process for a wireless transmit/receive unit (WTRU) between ~~from~~ a primary cell and to a non-primary cell, the processor causes the at least one transceiver to:
transmit, via the primary cell, scheduling information to the WTRU to
schedule enhanced uplink (EU) data transmissions from the WTRU,

receive, at the primary cell and the non-primary cell, EU data transmissions from the WTRU, wherein the EU data transmissions from the WTRU are received using uplink resources specified for the WTRU in the scheduling information and such that a level of interference at the primary cell and a level of interference at the non-primary cell are controlled,

transmit, via the primary cell, hybrid automatic repeat request (HARQ) acknowledgements (ACKs) to the WTRU, and

transmit, via the primary cell but not via the non-primary cell, negative acknowledgements (NACKs) to the WTRU.

19. (Previously Presented) The Node B of claim 18, wherein the transceiver is configured to process an identifier indicating the primary cell and the non-primary cell.

20. (Previously Presented) The Node B of claim 18, wherein the transceiver is configured to receive downlink power measurements of transmissions transmitted by the transceiver.

21. (Previously Presented) The Node B of claim 18, wherein the EU data includes identification information of the WTRU.

22. (Previously Presented) The Node B of claim 18, wherein the scheduling information includes any one or a combination of a HARQ process identification and a transmit power level.

23. (Previously Presented) The Node B of claim 18, wherein the transceiver receives the EU data using synchronous HARQ.

24. (Previously Presented) The Node B of claim 18, wherein the transceiver receives the EU data in accordance with the transmitted scheduling information.

25. (Previously Presented) The Node B of claim 18, wherein the EU data transmissions are scheduled to control interference at the primary cell and at the non-primary cell.

26. (Currently Amended) A wireless communication system comprising:

a wireless transmit/receiver unit (WTRU); and

a wireless network including a primary cell and a non-primary cell, the primary cell and the non-primary cell being associated with a Node-B,

wherein, during a handover process between ~~from~~ the primary cell and to the non-primary cell,

the Node-B is configured to transmit scheduling information to the WTRU via the primary cell to schedule enhanced uplink (EU) data transmissions from the WTRU,

the WTRU is configured to transmit EU data to the Node-B via the primary cell and the non-primary cell, wherein the WTRU transmits the EU data using uplink resources specified for the WTRU in the scheduling information and such that a level of interference at the primary cell and a level of interference at the non-primary cell are controlled,

the Node-B is configured to receive, via the primary cell and the non-primary cell, EU data transmissions from the WTRU according to the scheduling information,

the Node-B is configured to transmit hybrid automatic repeat request (HARQ) acknowledgements (ACKs) via the primary cell, and

the Node-B is configured to transmit negative acknowledgements (NACKs) via the primary cell and to not transmit the NACKs via the non-primary cell.

27. (Previously Presented) The wireless communication system of claim 26, wherein the Node-B is further configured to receive, from the WTRU, downlink power measurements of transmissions received by the WTRU.

28. (Previously Presented) The wireless communication system of claim 26, wherein the EU data includes identification information of the WTRU.

29. (Previously Presented) The wireless communication system of claim 26, wherein the scheduling information includes any one or a combination of a HARQ process identification and a transmit power level of the WTRU.

30. (Currently Amended) A wireless transmit/receive unit (WTRU) comprising:

at least one transceiver; and

a processor,

wherein, during a handover process between from a primary cell and to a non-primary cell, the processor is configured to cause the at least one transceiver to:

receive scheduling information from the primary cell;

transmit, via the primary cell and the non-primary cell, enhanced uplink (EU) data according to the scheduling information, wherein the EU data is transmitted using uplink resources specified for the WTRU in the scheduling information and such that a level of interference at the primary cell and a level of interference at the non-primary cell are controlled;

process hybrid automatic repeat request (HARQ) acknowledgements (ACKs) from the primary cell; and

process negative acknowledgements (NACKs) from the primary cell and not from the non-primary cell.

31. (Previously Presented) The WTRU of claim 30, wherein the processor is further configured to cause the at least one transceiver to receive an identifier indicating the primary cell and the non-primary cell.

32. (Previously Presented) The WTRU of claim 30, wherein the processor is further configured to cause the at least one transceiver to transmit downlink power measurements of transmissions received by the WTRU.

33. (Previously Presented) The WTRU of claim 30, wherein the EU data includes identification information of the WTRU.

34. (Previously Presented) The WTRU of claim 30, wherein the scheduling information includes any one or a combination of a HARQ process identification and a transmit power level of the WTRU.

35. (Previously Presented) The WTRU of claim 30, wherein the processor is further configured to cause the at least one transceiver to transmit the EU data using synchronous HARQ.

36. (Previously Presented) The WTRU of claim 30, wherein the processor is further configured to cause the at least one transceiver to transmit the EU data in accordance with the received scheduling information.

37. (Previously Presented) The WTRU of claim 30, wherein the processor is further configured to cause the at least one transceiver to retransmit the EU data from the WTRU via the primary cell and the non-primary cell upon receipt of a NACK.

38. (Previously Presented) The WTRU of claim 30, wherein the handover process is a soft handover.

39. (Previously Presented) The WTRU of claim 30, wherein the interference level at the primary cell and the interference level at the non-primary cell are controlled such that the interference level at the primary cell is below a predetermined interference level for the primary cell and the interference level at the non-primary cell is below a predetermined interference level for the non-primary cell.

40. (Previously Presented) The method of claim 1, wherein the interference level at the primary cell and the interference level at the non-primary cell are controlled such that the interference level at the primary cell is below a predetermined interference level for the primary cell and the interference level at

the non-primary cell is below a predetermined interference level for the non-primary cell.

41. (Previously Presented) The wireless network of claim 10, wherein the interference level at the primary cell and the interference level at the non-primary cell are controlled such that the interference level at the primary cell is below a predetermined interference level for the primary cell and the interference level at the non-primary cell is below a predetermined interference level for the non-primary cell.

42. (Previously Presented) The Node-B of claim 18, wherein the interference level at the primary cell and the interference level at the non-primary cell are controlled such that the interference level at the primary cell is below a predetermined interference level for the primary cell and the interference level at the non-primary cell is below a predetermined interference level for the non-primary cell.

43. (Previously Presented) The wireless communication system of claim 26, wherein the interference level at the primary cell and the interference level at

the non-primary cell are controlled such that the interference level at the primary cell is below a predetermined interference level for the primary cell and the interference level at the non-primary cell is below a predetermined interference level for the non-primary cell.

Applicant: Signal Trust for Wireless Innovation
Application No.: 16/283,407

REMARKS

After the foregoing Amendment, claims 1–43 are currently pending in this application. Claims 1, 10, 18, 26 and 30 amended.

Applicant submits that no new matter has been introduced into the application by this Amendment, and respectfully requests that this Amendment be entered pursuant to 37 C.F.R. §1.312 and that the application continues to grant.

If the Examiner believes that any additional minor formal matters need to be addressed, the Examiner is invited to contact the undersigned by telephone at the Examiner's convenience.

Respectfully submitted,

Signal Trust for Wireless Innovation

By /Joseph P. Gushue/
Joseph P. Gushue
Registration No. 59,819

Volpe and Koenig, P.C.
30 South 17th Street, Suite 1800
Philadelphia, PA 19103-4009
Telephone: (215) 568-6400
Facsimile: (215) 568-6499

JPG/pf
Enclosure

Electronic Patent Application Fee Transmittal				
Application Number:		16283407		
Filing Date:		22-Feb-2019		
Title of Invention:		SUPPORTING ENHANCED UPLINK TRANSMISSION DURING SOFT HANDOVER		
First Named Inventor/Applicant Name:		Guodong Zhang		
Filer:		Joseph P. Gushue/Margaret Ferello		
Attorney Docket Number:		SIG-2-0674US08		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	1501	1	1000	1000

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1000

Electronic Acknowledgement Receipt

EFS ID:	39623081
Application Number:	16283407
International Application Number:	
Confirmation Number:	6561
Title of Invention:	SUPPORTING ENHANCED UPLINK TRANSMISSION DURING SOFT HANDOVER
First Named Inventor/Applicant Name:	Guodong Zhang
Customer Number:	3624
Filer:	Joseph P. Gushue/Margaret Ferello
Filer Authorized By:	Joseph P. Gushue
Attorney Docket Number:	SIG-2-0674US08
Receipt Date:	04-JUN-2020
Filing Date:	22-FEB-2019
Time Stamp:	16:39:38
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$1000
RAM confirmation Number	E202064G40279996
Deposit Account	220493
Authorized User	Margaret Ferello

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:
37 CFR 1.17 (Patent application and reexamination processing fees)

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	SIG_2_0674US08_Issue_Fee_Form_PTOL_85.PDF	102535	no	1
			966d215e20b9ed458db41b133ee32ffbd8d928ed		
Warnings:					
Information:					
2		SIG_2_0674US08_Amendment_After_Allowance_1_312.PDF	77864	yes	16
			91015d12211b0a9647362c9ed8e42f5d70737e6f		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Amendment after Notice of Allowance (Rule 312)		1	1	
	Claims		2	15	
	Applicant Arguments/Remarks Made in a n Amendment		16	16	
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30514	no	2
			130236e51f38ce91d67994d412499ea80caf3e95		
Warnings:					
Information:					
Total Files Size (in bytes):			210913		

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

PART B - FEE(S) TRANSMITTAL

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

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

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

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

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

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

3624 7590 04/27/2020
VOLPE AND KOENIG, P.C.
30 SOUTH 17TH STREET, 18TH FLOOR
PHILADELPHIA, PA 19103

Electronically filed on June 4, 2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/283,407	02/22/2019	Guodong Zhang	SIG-2-0674US08	6561

TITLE OF INVENTION: SUPPORTING ENHANCED UPLINK TRANSMISSION DURING SOFT HANDOVER

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	07/27/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
ROBERTS, BRIAN S	2466	370-331000

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

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

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

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

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

1 Volpe and Koenig, P.C.

2

3

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

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

(A) NAME OF ASSIGNEE

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

Signal Trust for Wireless Innovation

Wilmington, DE

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

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

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

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

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

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

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

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

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

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

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

Authorized Signature /Joseph P. Gushue/

Date June 4, 2020

Typed or printed name Joseph P. Gushue

Registration No. 59,819

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

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 16/283,407	Filing Date 02/22/2019	☐ To be Mailed
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ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE (\$)	FEE (\$)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 = *		x \$100 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 = *		x \$460 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)	RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT	04/14/2020	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		
	Total (37 CFR 1.16(i))	* 43	Minus	** 29	= 14	x \$100 =	1400
	Independent (37 CFR 1.16(h))	* 5	Minus	*** 4	= 1	x \$460 =	460
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	1860
AMENDMENT	06/04/2020	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		
	Total (37 CFR 1.16(i))	* 43	Minus	** 43	= 0	x \$100 =	0
	Independent (37 CFR 1.16(h))	* 5	Minus	*** 5	= 0	x \$460 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	0
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.						LIE	
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".						/JEFFERY L OLSEN/	
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".							
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.							

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

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/283,407	02/22/2019	Guodong Zhang	SIG-2-0674US08	6561
3624	7590	06/18/2020	EXAMINER	
VOLPE AND KOENIG, P.C. 30 SOUTH 17TH STREET, 18TH FLOOR PHILADELPHIA, PA 19103			ROBERTS, BRIAN S	
			ART UNIT	PAPER NUMBER
			2466	
			NOTIFICATION DATE	DELIVERY MODE
			06/18/2020	ELECTRONIC

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

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

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

eoffice@volpe-koenig.com

Response to Rule 312 Communication	Application No.	Applicant(s)	
	16/283,407	Zhang et al.	
	Examiner	Art Unit	AIA (FITF) Status
	BRIAN S ROBERTS	2466	No

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

1. ☒ The amendment filed on 04 June 2020, under 37 CFR 1.312 has been considered, and has been:

a) ☐ entered.

b) ☐ entered as directed to matters of form not affecting the scope of the invention.

c) ☐ disapproved because the amendment was filed after the payment of the issue fee.

Any amendment filed after the date the issue fee is paid must be accompanied by a petition under 37 CFR 1.313(c)(1) and the required fee to withdraw the application from issue.

d) ☒ disapproved. See explanation below.

e) ☐ entered in part. See explanation below.

The amendment changes the scope of the invention necessitating further consideration and/or search.

/BRIAN S ROBERTS/ Primary Examiner, Art Unit 2466	
--	--

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the **PATENT APPLICATION** of:

Zhang et al.

Application No.: 16/283,407

Confirmation No.: 6561

Filed: February 22, 2019

For: SUPPORTING
ENHANCED UPLINK TRANSMISSION
DURING SOFT HANDOVER

Group: 2466

Examiner: Brian S. Roberts

Our File: SIG-2-0674US08

Date: June 4, 2020

DO NOT ENTER: /B.S.R./

**AMENDMENT AFTER ALLOWANCE
PURSUANT TO 37 C.F.R. §1.312**

Mail Stop Issue Fee (via EFS)
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This Amendment is submitted further to the Notice of Allowance dated
April 27, 2020.

Please amend the application in accordance with 37 C.F.R. §1.312 as follows:

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL **(Submitted Only via EFS-Web)**

Application Number	16283407	Filing Date	2019-02-22	Docket Number (if applicable)	SIG-2-0674US08	Art Unit	2466
First Named Inventor	Zhang et al.			Examiner Name	Brian S. Roberts		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.

Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____

☐ Other _____

☒ Enclosed

☒ Amendment/Reply

☒ Information Disclosure Statement (IDS)

☐ Affidavit(s)/ Declaration(s)

☒ Other

Petition under 37 C.F.R. 1.313(c) (2) to Withdrawal from Issue

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____
 (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

☒ The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to
 Deposit Account No 220493

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

Applicant Signature

Signature of Registered U.S. Patent Practitioner			
Signature	Joseph P. Gushue/	Date (YYYY-MM-DD)	2020-06-22
Name	Joseph P. Gushue	Registration Number	59819

This collection of information is required by 37 CFR 1.114. 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 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

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

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.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the **PATENT APPLICATION** of:

Zhang et al.

Application No.: 16/283,407

Confirmation No.: 6561

Filed: February 22, 2019

For: SUPPORTING
ENHANCED UPLINK TRANSMISSION
DURING SOFT HANDOVER

Group: 2466

Examiner: Brian S. Roberts

Our File: SIG-2-0674US08

Date: June 22, 2020

INFORMATION DISCLOSURE STATEMENT (IDS)

Mail Stop 313(c) (via EFS)
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Further to Applicant's Duty of Disclosure pursuant to 37 C.F.R. § 1.56, Applicant wishes to bring to the Examiner's attention the material cited on the enclosed PTO Form SB-08.

Copies of the newly cited documents are enclosed. Pursuant to 37 C.F.R. § 1.98(a)(2)(ii), copies of the newly cited U.S. publications and/or patent documents have not been included.

This application is a continuation of U.S. Patent Application No. 15/699,418, filed on September 8, 2017, which issued on February 26, 2019 as U.S. Patent No. 10,219,196, which is a continuation of U.S. Patent Application No. 14/869,313,

which was filed September 29, 2015, which issued on September 12, 2017 as U.S. Patent No. 9,763,156, which is a continuation of U.S. Patent Application No. 13/908,242 filed on June 3, 2013, which issued on December 15, 2015 as U.S. Patent No. 9,215,636, which is a continuation of U.S. Patent Application No. 13/308,950 filed on December 1, 2011, which issued on June 4, 2013 as U.S. Patent 8,457,072, which is a continuation of U.S. Patent Application No. 11/434,330 filed on May 15, 2006, which issued on March 6, 2012 as U.S. Patent 8,130,720, which is a continuation of U.S. Patent Application No. 10/962,720 filed October 12, 2004, which issued on May 16, 2006 as U.S. Patent 7,046,648, which claims the benefit of U.S. Provisional Application No. 60/578,674 filed June 10, 2004, U.S. Provisional Application No. 60/520,692 filed November 17, 2003, U.S. Provisional Application No. 60/519,990 filed November 14, 2003, and U.S. Provisional Application No. 60/517,656 filed November 5, 2003.

Applicant also wishes to bring to the Examiner's attention co-pending U.S. Application No. 16/533,320, filed August 6, 2019, which is a continuation of U.S. Application No. 15/212,403, filed on July 18, 2016, which issued as U.S. Patent No. 10,390,279 on August 20, 2019, which is a continuation of U.S. Application No. 13/236,133, filed on September 19, 2011, which issued as U.S. Patent No. 9,438,381 on September 6, 2016, which is a continuation of 10/925,426, filed on August 25, 2004, which issued as U.S. Patent No. 8,023,463 on September 20, 2011, which claims the benefit of U.S. Provisional Application No. 60/497,747 filed on August 25,

2003; U.S. Provisional Application No. 60/507,554 filed on October 1, 2003; U.S. Provisional Application No. 60/508,797 filed on October 3, 2003; U.S. Provisional Application No. 60/520,207 filed on November 14, 2003 and U.S. Provisional Application No. 60/585,174 filed on July 2, 2004.

It is respectfully requested that the Examiner consider these documents and return an initialed copy of the PTO Form SB-08 indicating consideration of the cited material.

Respectfully submitted,

Signal Trust for Wireless Innovation

By /Joseph P. Gushue/
Joseph P. Gushue
Registration No. 59,819
(215) 568-6400

Volpe and Koenig, P.C.
30 South 17th Street; Suite 1800
Philadelphia, PA 19103-4009
Telephone: (215) 568-6400
Facsimile: (215) 568-6499

JPG/JMB/pf
Enclosures (7)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	16283407
	Filing Date	2019-02-22
	First Named Inventor	Zhang et al.
	Art Unit	2466
	Examiner Name	ROBERTS, BRIAN S
	Attorney Docket Number	SIG-2-0674US08

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Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6829482	B2	2004-12-07	Rune et al.	

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	16283407
Filing Date	2019-02-22
First Named Inventor	Zhang et al.
Art Unit	2466
Examiner Name	ROBERTS, BRIAN S
Attorney Docket Number	SIG-2-0674US08

1	3GPP, "3rd Generation Partnership Project; Technical Specification Group Radio Access Network; UTRAN Iub Interface User Plane Protocols for Common Transport Channel data streams (Release 5)," 3GPP TS 25.435 V5.5.0 (June 2003).
2	3GPP, "3rd Generation Partnership Project; Technical Specification Group Radio Access Network; UTRAN Iub Interface User Plane Protocols for Common Transport Channel data streams (Release 6)," 3GPP TS 25.435 V6.1.0 (March 2004).
3	3GPP, "3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Radio resource management strategies (Release 5)," 3GPP TR 25.922 V5.0.0 (March 2002).
4	Universal Mobile Telecommunications System (UMTS); "Radio resource management strategies (3GPP TR 25.922 version 5.1.0 Release 5)," ETSI TR 125 922 V5.1.0 (September 2003).
5	Universal Mobile Telecommunications System (UMTS); "Radio resource management strategies (3GPP TR 25.922 version 6.0.1 Release 6)," ETSI TR 125 922 V6.0.1 (April 2004).

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature		Date Considered	
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***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		16283407
	Filing Date		2019-02-22
	First Named Inventor	Zhang et al.	
	Art Unit	2466	
	Examiner Name	ROBERTS, BRIAN S	
	Attorney Docket Number	SIG-2-0674US08	

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Joseph P. Gushue/	Date (YYYY-MM-DD)	2020-06-22
Name/Print	Joseph P. Gushue	Registration Number	59,819

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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.
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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.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the **PATENT APPLICATION** of:

Zhang et al.

Application No.: 16/283,407

Confirmation No.: 6561

Filed: February 22, 2019

For: SUPPORTING
ENHANCED UPLINK TRANSMISSION
DURING SOFT HANDOVER

Group: 2466

Examiner: Brian S. Roberts

Our File: SIG-2-0674US08

Date: June 22, 2020

PRELIMINARY AMENDMENT

Mail Stop RCE (via EFS)
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This Amendment is submitted in conjunction with an appropriate Petition for Withdrawal from Issue after Payment of the Issue Fee and Request for Continued Examination (RCE).

Please amend the application without prejudice or disclaimer as follows:

Amendments to the Claims:

This listing of the claims will replace all prior versions of the claims in the application:

1. (Currently Amended) A method for communicating by a wireless transmit/receive unit (WTRU) during a handover process between ~~from~~ a primary cell and to a non-primary cell, the method comprising:

receiving scheduling information from the primary cell;

transmitting, via the primary cell and the non-primary cell, enhanced uplink (EU) data according to the scheduling information, wherein the WTRU transmits the EU data using uplink resources specified for the WTRU in the scheduling information and such that a level of interference at the primary cell and a level of interference at the non-primary cell are controlled;

processing hybrid automatic repeat request (HARQ) acknowledgements (ACKs) from the primary cell; and

processing negative acknowledgements (NACKs) from the primary cell and not from the non-primary cell.

2. (Previously Presented) The method of claim 1, further comprising:
receiving an identifier indicating the primary cell and the non-primary cell.

3. (Previously Presented) The method of claim 1, further comprising:
transmitting downlink power measurements of transmissions received by the
WTRU.

4. (Previously Presented) The method of claim 1, wherein the EU data
includes identification information of the WTRU.

5. (Previously Presented) The method of claim 1, wherein the
scheduling information includes any one or a combination of a HARQ process
identification and a transmit power level of the WTRU.

6. (Previously Presented) The method of claim 1, further comprising:
transmitting the EU data using synchronous HARQ.

7. (Previously Presented) The method of claim 1, wherein the EU data
is transmitted in accordance with the received scheduling information.

8. (Previously Presented) The method of claim 1, further comprising:

retransmitting the EU data from the WTRU via the primary cell and the non-primary cell upon receipt of a NACK.

9. (Previously Presented) The method of claim 1, wherein the handover process is a soft handover.

10. (Currently Amended) A wireless network comprising a plurality of Node-Bs configured to communicate with a wireless transmit/receiver unit (WTRU) during a handover process between ~~from~~ a first Node-B of the plurality of Node-Bs and to ~~a~~ second Node-B of the plurality of Node-Bs by:

transmitting scheduling information to the WTRU via the first Node-B;

receiving enhanced uplink (EU) data from the WTRU at the first Node-B and the second Node-B according to the scheduling information, wherein the EU data is received using uplink resources specified for the WTRU in the scheduling information and such that a level of interference at the first Node-B and a level of interference at the second Node-B are controlled;

transmitting hybrid automatic repeat request (HARQ) acknowledgements (ACKs) to the WTRU via the first Node-B; and

transmitting negative acknowledgements (NACKs) to the WTRU via the first Node-B and not via the second Node-B.

11. (Previously Presented) The wireless network of claim 10, wherein the first Node-B controls a primary cell and the second Node-B controls a non-primary cell.

12. (Previously Presented) The wireless network of claim 10, further comprising:

a radio network controller (RNC) to transmit to the plurality of Node-Bs an identifier indicating the first Node-B and the second Node-B.

13. (Previously Presented) The wireless network of claim 10, wherein the plurality of Node-Bs is further configured to receive, from the WTRU, downlink power measurements of transmissions received by the WTRU.

14. (Previously Presented) The wireless network of claim 10, wherein the EU data includes identification information of the WTRU.

15. (Previously Presented) The wireless network of claim 10, wherein the scheduling information includes any one or a combination of a HARQ process identification and a transmit power level of the WTRU.

16. (Previously Presented) The wireless network of claim 10, wherein the first and second Node-Bs are further configured to receive the EU data using synchronous HARQ.

17. (Previously Presented) The wireless network of claim 10, wherein the handover process is a soft handover.

18. (Currently Amended) A Node B comprising:
at least one transceiver; and
a processor;
wherein, when the Node B is performing an intra-Node B handover process for a wireless transmit/receive unit (WTRU) between ~~from~~ a primary cell and to a non-primary cell, the processor causes the at least one transceiver to:
transmit, via the primary cell, scheduling information to the WTRU to
schedule enhanced uplink (EU) data transmissions from the WTRU,

receive, at the primary cell and the non-primary cell, EU data transmissions from the WTRU, wherein the EU data transmissions from the WTRU are received using uplink resources specified for the WTRU in the scheduling information and such that a level of interference at the primary cell and a level of interference at the non-primary cell are controlled,

transmit, via the primary cell, hybrid automatic repeat request (HARQ) acknowledgements (ACKs) to the WTRU, and

transmit, via the primary cell but not via the non-primary cell, negative acknowledgements (NACKs) to the WTRU.

19. (Previously Presented) The Node B of claim 18, wherein the transceiver is configured to process an identifier indicating the primary cell and the non-primary cell.

20. (Previously Presented) The Node B of claim 18, wherein the transceiver is configured to receive downlink power measurements of transmissions transmitted by the transceiver.

21. (Previously Presented) The Node B of claim 18, wherein the EU data includes identification information of the WTRU.

22. (Previously Presented) The Node B of claim 18, wherein the scheduling information includes any one or a combination of a HARQ process identification and a transmit power level.

23. (Previously Presented) The Node B of claim 18, wherein the transceiver receives the EU data using synchronous HARQ.

24. (Previously Presented) The Node B of claim 18, wherein the transceiver receives the EU data in accordance with the transmitted scheduling information.

25. (Previously Presented) The Node B of claim 18, wherein the EU data transmissions are scheduled to control interference at the primary cell and at the non-primary cell.

26. (Currently Amended) A wireless communication system comprising:

a wireless transmit/receiver unit (WTRU); and

a wireless network including a primary cell and a non-primary cell, the primary cell and the non-primary cell being associated with a Node-B,

wherein, during a handover process between ~~from~~ the primary cell and to the non-primary cell,

the Node-B is configured to transmit scheduling information to the WTRU via the primary cell to schedule enhanced uplink (EU) data transmissions from the WTRU,

the WTRU is configured to transmit EU data to the Node-B via the primary cell and the non-primary cell, wherein the WTRU transmits the EU data using uplink resources specified for the WTRU in the scheduling information and such that a level of interference at the primary cell and a level of interference at the non-primary cell are controlled,

the Node-B is configured to receive, via the primary cell and the non-primary cell, EU data transmissions from the WTRU according to the scheduling information,

the Node-B is configured to transmit hybrid automatic repeat request (HARQ) acknowledgements (ACKs) via the primary cell, and

the Node-B is configured to transmit negative acknowledgements (NACKs) via the primary cell and to not transmit the NACKs via the non-primary cell.

27. (Previously Presented) The wireless communication system of claim 26, wherein the Node-B is further configured to receive, from the WTRU, downlink power measurements of transmissions received by the WTRU.

28. (Previously Presented) The wireless communication system of claim 26, wherein the EU data includes identification information of the WTRU.

29. (Previously Presented) The wireless communication system of claim 26, wherein the scheduling information includes any one or a combination of a HARQ process identification and a transmit power level of the WTRU.

30. (Currently Amended) A wireless transmit/receive unit (WTRU) comprising:

at least one transceiver; and

a processor,

wherein, during a handover process between from a primary cell and to a non-primary cell, the processor is configured to cause the at least one transceiver to:

receive scheduling information from the primary cell;

transmit, via the primary cell and the non-primary cell, enhanced uplink (EU) data according to the scheduling information, wherein the EU data is transmitted using uplink resources specified for the WTRU in the scheduling information and such that a level of interference at the primary cell and a level of interference at the non-primary cell are controlled;

process hybrid automatic repeat request (HARQ) acknowledgements (ACKs) from the primary cell; and

process negative acknowledgements (NACKs) from the primary cell and not from the non-primary cell.

31. (Previously Presented) The WTRU of claim 30, wherein the processor is further configured to cause the at least one transceiver to receive an identifier indicating the primary cell and the non-primary cell.

32. (Previously Presented) The WTRU of claim 30, wherein the processor is further configured to cause the at least one transceiver to transmit downlink power measurements of transmissions received by the WTRU.

33. (Previously Presented) The WTRU of claim 30, wherein the EU data includes identification information of the WTRU.

34. (Previously Presented) The WTRU of claim 30, wherein the scheduling information includes any one or a combination of a HARQ process identification and a transmit power level of the WTRU.

35. (Previously Presented) The WTRU of claim 30, wherein the processor is further configured to cause the at least one transceiver to transmit the EU data using synchronous HARQ.

36. (Previously Presented) The WTRU of claim 30, wherein the processor is further configured to cause the at least one transceiver to transmit the EU data in accordance with the received scheduling information.

37. (Previously Presented) The WTRU of claim 30, wherein the processor is further configured to cause the at least one transceiver to retransmit the EU data from the WTRU via the primary cell and the non-primary cell upon receipt of a NACK.

38. (Previously Presented) The WTRU of claim 30, wherein the handover process is a soft handover.

39. (Previously Presented) The WTRU of claim 30, wherein the interference level at the primary cell and the interference level at the non-primary cell are controlled such that the interference level at the primary cell is below a predetermined interference level for the primary cell and the interference level at the non-primary cell is below a predetermined interference level for the non-primary cell.

40. (Previously Presented) The method of claim 1, wherein the interference level at the primary cell and the interference level at the non-primary cell are controlled such that the interference level at the primary cell is below a predetermined interference level for the primary cell and the interference level at

the non-primary cell is below a predetermined interference level for the non-primary cell.

41. (Previously Presented) The wireless network of claim 10, wherein the interference level at the primary cell and the interference level at the non-primary cell are controlled such that the interference level at the primary cell is below a predetermined interference level for the primary cell and the interference level at the non-primary cell is below a predetermined interference level for the non-primary cell.

42. (Previously Presented) The Node-B of claim 18, wherein the interference level at the primary cell and the interference level at the non-primary cell are controlled such that the interference level at the primary cell is below a predetermined interference level for the primary cell and the interference level at the non-primary cell is below a predetermined interference level for the non-primary cell.

43. (Previously Presented) The wireless communication system of claim 26, wherein the interference level at the primary cell and the interference level at

the non-primary cell are controlled such that the interference level at the primary cell is below a predetermined interference level for the primary cell and the interference level at the non-primary cell is below a predetermined interference level for the non-primary cell.

REMARKS

Examination is requested based upon the amendments made via this Preliminary Amendment. Claims 1–43 are currently pending. Claims 1, 10, 18, 26 and 30 are amended.

Applicant submits that no new matter has been introduced into the application by this Amendment, and respectfully requests that the application continues to grant.

If the Examiner believes that any additional minor formal matters need to be addressed, the Examiner is invited to contact the undersigned by telephone at the Examiner's convenience.

Respectfully submitted,

Signal Trust for Wireless Innovation

By /Joseph P. Gushue/
Joseph P. Gushue
Registration No. 59,819

Volpe and Koenig, P.C.
30 South 17th Street, Suite 1800
Philadelphia, PA 19103-4009
Telephone: (215) 568-6400
Facsimile: (215) 568-6499

JPG/pf
Enclosures

Doc Code: PET.AUTO Document Description: Petition automatically granted by EFS-Web		PTO/SB/140 U.S. Patent and Trademark Office Department of Commerce
Electronic Petition Request	PETITION TO WITHDRAW AN APPLICATION FROM ISSUE AFTER PAYMENT OF THE ISSUE FEE UNDER 37 CFR 1.313(c)	
Application Number	16283407	
Filing Date	22-Feb-2019	
First Named Inventor	Guodong Zhang	
Art Unit	2466	
Examiner Name	BRIAN ROBERTS	
Attorney Docket Number	SIG-2-0674US08	
Title	SUPPORTING ENHANCED UPLINK TRANSMISSION DURING SOFT HANDOVER	
An application may be withdrawn from issue for further action upon petition by the applicant. To request that the Office withdraw an application from issue, applicant must file a petition under this section including the fee set forth in § 1.17(h) and a showing of good and sufficient reasons why withdrawal of the application from issue is necessary. APPLICANT HEREBY PETITIONS TO WITHDRAW THIS APPLICATION FROM ISSUE UNDER 37 CFR 1.313(c). A grantable petition requires the following items: (1) Petition fee; and (2) One of the following reasons: (a) Unpatentability of one or more claims, which must be accompanied by an unequivocal statement that one or more claims are unpatentable, an amendment to such claim or claims, and an explanation as to how the amendment causes such claim or claims to be patentable; (b) Consideration of a request for continued examination in compliance with § 1.114 (for a utility or plant application only); or (c) Express abandonment of the application. Such express abandonment may be in favor of a continuing application, but not a CPA under 37 CFR 1.53(d).		
Petition Fee		
☐ Small Entity		
☐ Micro Entity		
☒ Regular Undiscounted		
Reason for withdrawal from issue		

- ☐ One or more claims are unpatentable
- ☒ Consideration of a request for continued examination (RCE) (List of Required Documents and Fees)
- ☐ Applicant hereby expressly abandons the instant application (any attorney/agent signing for this reason must have power of attorney pursuant to 37 CFR 1.32(b)).

RCE request, submission, and fee.

- ☐ I certify, in accordance with 37 CFR 1.4(d)(4) that :
- ☐ The RCE request ,submission, and fee have already been filed in the above-identified application on
- ☒ Are attached.

THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES

I certify, in accordance with 37 CFR 1.4(d)(4) that I am:

- ☒ An attorney or agent registered to practice before the Patent and Trademark Office who has been given power of attorney in this application.
- ☐ An attorney or agent registered to practice before the Patent and Trademark Office, acting in a representative capacity.
- ☐ A sole inventor
- ☐ A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application
- ☐ A joint inventor; all of whom are signing this e-petition

Signature	/Joseph P. Gushue/
Name	Joseph P. Gushue
Registration Number	59819

Electronic Patent Application Fee Transmittal

Application Number:	16283407			
Filing Date:	22-Feb-2019			
Title of Invention:	SUPPORTING ENHANCED UPLINK TRANSMISSION DURING SOFT HANDOVER			
First Named Inventor/Applicant Name:	Guodong Zhang			
Filer:	Joseph P. Gushue/Margaret Ferello			
Attorney Docket Number:	SIG-2-0674US08			
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
PETITION FEE- 37 CFR 1.17(H) (GROUP III)	1464	1	140	140
RCE- 1ST REQUEST	1801	1	1300	1300
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 (\$)				1440



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Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

Decision Date : June 22, 2020

In re Application of :

Guodong Zhang

DECISION ON PETITION

UNDER CFR 1.313(c)(2)

Application No : 16283407

Filed : 22-Feb-2019

Attorney Docket No : SIG-2-0674US08

This is an electronic decision on the petition under 37 CFR 1.313(c)(2), filed June 22, 2020 , to withdraw the above-identified application from issue after payment of the issue fee.

The petition is **GRANTED**.

The above-identified application is withdrawn from issue for consideration of a submission under 37 CFR 1.114 (request for continued examination). See 37 CFR 1.313(c)(2).

Petitioner is advised that the issue fee paid in this application cannot be refunded. If, however, this application is again allowed, petitioner may request that it be applied towards the issue fee required by the new Notice of Allowance.

Telephone inquiries concerning this decision should be directed to the Patent Electronic Business Center (EBC) at 866-217-9197.

This application file is being referred to Technology Center AU 2466 for processing of the request for continuing examination under 37 CFR 1.114 .

Office of Petitions

Electronic Acknowledgement Receipt

EFS ID:	39785188
Application Number:	16283407
International Application Number:	
Confirmation Number:	6561
Title of Invention:	SUPPORTING ENHANCED UPLINK TRANSMISSION DURING SOFT HANDOVER
First Named Inventor/Applicant Name:	Guodong Zhang
Customer Number:	3624
Filer:	Joseph P. Gushue/Margaret Ferello
Filer Authorized By:	Joseph P. Gushue
Attorney Docket Number:	SIG-2-0674US08
Receipt Date:	22-JUN-2020
Filing Date:	22-FEB-2019
Time Stamp:	16:53:48
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 1440
RAM confirmation Number	E20206LG53400417
Deposit Account	220493
Authorized User	Margaret Ferello

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:
37 CFR 1.17 (Patent application and reexamination processing fees)

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Continued Examination (RCE)	SIG_2_0674US08_RCE_20200622.PDF	1350176	no	3
			add3ff7c2007038d4952391dc6114e5005915f01		
Warnings:					
Information:					
2	Transmittal Letter	SIG_2_0674US08_IDS_Transmittal_Letter_20200622.PDF	56509	no	3
			fefc3b3b530128a49a6ad4ed45862b7f73dc3c775		
Warnings:					
Information:					
3	Information Disclosure Statement (IDS) Form (SB08)	SIG_2_0674US08_IDS_Form_S B08_20200622.PDF	1034961	no	4
			ce3fc569c01f93a0123d3b2ac33b99321058d520		
Warnings:					
Information:					
4		SIG_2_0674US08_Preliminary_Amendment_RCE.PDF	75725	yes	16
			25fb0ceb184a61aa646bdd13b24c7f1df713e5ce		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Amendment Submitted/Entered with Filing of CPA/RCE		1	1	
	Claims		2	15	
	Applicant Arguments/Remarks Made in an Amendment		16	16	
Warnings:					
Information:					
5	Non Patent Literature	a_SIG_2_0674US08_25435_550_EFS.PDF	2846185	no	4
			792be8cb31fa09177c61ed51669cf506e1cf d2a9		

Warnings:					
Information:					
6	Non Patent Literature	b_SIG_2_0674US08_25435_610_EFS.PDF	20129958	no	44
			71f1fe251e4cea46a8dbe268805869c35502b1bc		
Warnings:					
Information:					
7	Non Patent Literature	c_SIG_2_0674US08_25922_5000_EFS.PDF	2194608	no	4
			277cc5b834ce55c16f3f86b9046d8a040ff0bcd6		
Warnings:					
Information:					
8	Non Patent Literature	d_SIG_2_0674US08_125922v050100_EFS.PDF	18301158	no	81
			8623cc23785703957e4306b78ceaa5bc04ed02e8		
Warnings:					
Information:					
9	Non Patent Literature	e_SIG_2_0674US08_125922v6001_EFS.PDF	18030992	no	81
			a066c62aa12bdf177f6746527b775b0fa1334817		
Warnings:					
Information:					
10	Petition automatically granted by EFS	petition-request.pdf	31669	no	2
			f2ece0bd21df1a52fbbe9c6052c585e882ece002		
Warnings:					
Information:					
11	Fee Worksheet (SB06)	fee-info.pdf	32125	no	2
			6d26684863bb1d5183dfec3b44918fb089d1491a		
Warnings:					
Information:					
Total Files Size (in bytes):			64084066		

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

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

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 16/283,407	Filing Date 02/22/2019	☐ To be Mailed
---	--	---------------------------	---------------------------------------

ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

	(Column 1)	(Column 2)	RATE (\$)	FEE (\$)
FOR	NUMBER FILED	NUMBER EXTRA		
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 = *		x \$100 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 = *		x \$460 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)	RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT	06/22/2020	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		
	Total (37 CFR 1.16(i))	* 43	Minus	** 43	= 0	x \$100 =	0
	Independent (37 CFR 1.16(h))	* 5	Minus	*** 5	= 0	x \$460 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	0
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x \$0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x \$0 =	
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.						LIE	
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".						/JEFFERY L OLSEN/	
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".							
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.							

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

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

3624 759 07/17/2020
VOLPE AND KOENIG, P.C.
30 SOUTH 17TH STREET, 18TH FLOOR
PHILADELPHIA, PA 19103

EXAMINER

ROBERTS, BRIAN S

ART UNIT

PAPER NUMBER

2466

DATE MAILED: 07/17/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/283,407	02/22/2019	Guodong Zhang	SIG-2-0674US08	6561

TITLE OF INVENTION: SUPPORTING ENHANCED UPLINK TRANSMISSION DURING SOFT HANDOVER

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$1000.00	\$0	10/19/2020

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

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

HOW TO REPLY TO THIS NOTICE:

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

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

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

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

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

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

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

PART B - FEE(S) TRANSMITTAL

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

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

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

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

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

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

3624 7590 07/17/2020
VOLPE AND KOENIG, P.C.
30 SOUTH 17TH STREET, 18TH FLOOR
PHILADELPHIA, PA 19103

Certificate of Mailing or Transmission

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/283,407	02/22/2019	Guodong Zhang	SIG-2-0674US08	6561

TITLE OF INVENTION: SUPPORTING ENHANCED UPLINK TRANSMISSION DURING SOFT HANDOVER

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$1000.00	\$0	10/19/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
ROBERTS, BRIAN S	2466	370-331000

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

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

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

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

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

1 _____

2 _____

3 _____

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

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

(A) NAME OF ASSIGNEE

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

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

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

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

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

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

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

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

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

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

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

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

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/283,407	02/22/2019	Guodong Zhang	SIG-2-0674US08	6561
3624 7590 07/17/2020 VOLPE AND KOENIG, P.C. 30 SOUTH 17TH STREET, 18TH FLOOR PHILADELPHIA, PA 19103				
EXAMINER ROBERTS, BRIAN S				
ART UNIT 2466		PAPER NUMBER		
DATE MAILED: 07/17/2020				

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

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

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

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

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

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

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

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 16/283,407	Applicant(s) Zhang et al.	
	Examiner BRIAN S ROBERTS	Art Unit 2466	AIA (FITF) Status No

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

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

1. ☒ This communication is responsive to the RCE filed on 06/22/2020.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.

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

3. ☒ The allowed claim(s) is/are 1-43. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

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

Certified copies:

a) ☐ All b) ☐ Some *c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. ____.

3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: ____.

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

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

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

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

Attachment(s)

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

/BRIAN S ROBERTS/ Primary Examiner, Art Unit 2466	
--	--

Examiner's Statement of Reasons for Allowance

Notice of Pre-AIA or AIA Status

The present application is being examined under the pre-AIA first to invent provisions.

Claims 1-43 are allowed.

The following is an examiner's statement of reasons for allowance:

The primary reason independent claim 1, and similarly independent claim 30, is allowable is because the closest prior art of record, US 7013143 by Love et al., fails to teach or fairly suggest either alone or in combination with the prior art of record a method for communicating by a wireless transmit/receive unit (WTRU) during a handover process between a primary cell and a non-primary cell, the method that includes receiving scheduling information from via-the primary cell; transmitting, via the primary cell and the non-primary cell, enhanced uplink (EU) data according to the scheduling information, wherein the WTRU transmits the EU data using unlink resources specified for the WTRU in the scheduling information and such that a level of interference at the primary cell and a level of interference at the non-primary cell are controlled; processing -hybrid automatic repeat request (HARQ) acknowledgements (ACKs) from via-the primary cell; and processing negative acknowledgements (NACKs) from the primary cell and not from via-the non-primary cell.

The primary reason independent claim 10 is allowable is because the closest prior art of record, US 7013143 by Love et al., fails to teach or fairly suggest either alone or in combination with the prior art of record a wireless network comprising a plurality of Node-Bs configured to communicate with a wireless transmit/receiver unit (WTRU) during a handover process between a first Node-B of the plurality of Node-Bs and a second Node-B of the plurality of Node-Bs by transmitting scheduling information to the WTRU via the first Node-B; receiving enhanced uplink (EU) data from the WTRU at via-the first Node-B and the second Node-B according to the scheduling information, wherein the EU data is received using unlink resources specified for the WTRU in the scheduling information and such that a level of interference at the first Node-B and a level of interference at the second Node-B are controlled; transmitting hybrid automatic repeat request (HARQ) acknowledgements (ACKs) to the WTRU via the first Node-B; and transmitting negative acknowledgements (NACKs) to the WTRU via the first Node-B and not via the second Node-B.

The primary reason independent claim 18 is allowable is because the closest prior art of record, US 7013143 by Love et al., fails to teach or fairly suggest either alone or in combination with the prior art of record a Node B at least one transceiver; and a processor; wherein, when the Node B is performing an intra-Node B handover process for a wireless transmit/receive unit (WTRU) between a primary cell and a non-primary cell, the processor causes the at least one transceiver to: transmit, via the primary cell, scheduling information to the WTRU to schedule enhanced uplink (EU) data transmissions from the WTRU; receive, at the primary cell and the non-primary

cell, EU data transmissions from the WTRU, wherein the EU data transmissions from the WTRU are received using unlink resources specified for the WTRU in the scheduling information and such that a level of interference at the primary cell and a level of interference at the non-primary cell are controlled; transmit, via the primary cell, hybrid automatic repeat request (HARQ) acknowledgements (ACKs) to the WTRU, and transmit, via the primary cell but not via the non-primary cell, negative acknowledgements (NACKs) to the WTRU.

The primary reason independent claim 26 is allowable is because the closest prior art of record, US 7013143 by Love et al., fails to teach or fairly suggest either alone or in combination with the prior art of record a wireless communication system that includes a wireless transmit/receiver unit (WTRU); and a wireless network including a primary cell and a non-primary cell, the primary cell and the non-primary cell being associated with a Node-B, wherein, during a handover process between the primary cell and the non-primary cell, the Node-B is configured to transmit scheduling information to the WTRU via the primary cell to schedule enhanced uplink (EU) data transmissions from the WTRU, the WTRU is configured to transmit EU data to the Node-B via the primary cell and the non-primary cell, wherein the WTRU transmits the EU data using unlink resources specified for the WTRU in the scheduling information and such that a level of interference at the primary cell and a level of interference at the non-primary cell are controlled, the Node-B is configured to receive, via the primary cell and the non-primary cell, EU data transmissions from the WTRU according to the scheduling information, the Node-B is configured to transmit hybrid automatic repeat request

(HARQ) acknowledgements (ACKs) via the primary cell, and the Node-B is configured to transmit negative acknowledgements (NACKs) via the primary cell and to not transmit the NACKs via the non-primary cell.

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

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRIAN S ROBERTS whose telephone number is (571)272-3095. The examiner can normally be reached on M to F, 9am to 5pm.

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

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Faruk Hamza can be reached on (571) 272-7969. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

BRIAN S. ROBERTS
Primary Examiner
Art Unit 2466

/BRIAN S ROBERTS/
Primary Examiner, Art Unit 2466

Issue Classification 	Application/Control No. 16/283,407	Applicant(s)/Patent Under Reexamination Zhang et al.
	Examiner BRIAN S ROBERTS	Art Unit 2466

CPC						
Symbol					Type	Version
H04W	/	36	/	18	F	2013-01-01
H04L	/	1	/	1887	I	2013-01-01
H04L	/	1	/	1893	I	2013-01-01
H04L	/	1	/	1812	I	2013-01-01
H04W	/	74	/	004	I	2013-01-01
H04W	/	74	/	04	I	2013-01-01
H04B	/	7	/	022	A	2013-01-01
H04W	/	36	/	30	A	2013-01-01
H04W	/	88	/	08	A	2013-01-01

CPC Combination Sets							
Symbol				Type	Set	Ranking	Version
	/		/				

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 43	
/BRIAN S ROBERTS/ Primary Examiner, Art Unit 2466 (Primary Examiner) _____ (Date) _____		08 July 2020 (Date)	O.G. Print Claim(s) 1 O.G. Print Figure 2

Issue Classification 	Application/Control No. 16/283,407	Applicant(s)/Patent Under Reexamination Zhang et al.
	Examiner BRIAN S ROBERTS	Art Unit 2466

INTERNATIONAL CLASSIFICATION			
CLAIMED			
H04W36/18	/	36	/ 18
NON-CLAIMED			
/	/		

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

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

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	43	
/BRIAN S ROBERTS/ Primary Examiner, Art Unit 2466	08 July 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	2

Issue Classification 	Application/Control No. 16/283,407	Applicant(s)/Patent Under Reexamination Zhang et al.
	Examiner BRIAN S ROBERTS	Art Unit 2466

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

CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	11	10	21	19	31	28	41	37						
2	2	12	11	22	20	32	29	42	38						
3	3	13	12	23	21	34	30	43	39						
4	4	14	13	24	22	35	31	10	40						
5	5	15	14	25	23	36	32	19	41						
6	6	16	15	26	24	37	33	28	42						
7	7	17	16	27	25	38	34	33	43						
8	8	18	17	29	26	39	35								
9	9	20	18	30	27	40	36								

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 43	
/BRIAN S ROBERTS/ Primary Examiner, Art Unit 2466 (Primary Examiner) _____ (Date) 08 July 2020		O.G. Print Claim(s) 1	O.G. Print Figure 2

Search Notes 	Application/Control No. 16/283,407	Applicant(s)/Patent Under Reexamination Zhang et al.
	Examiner BRIAN S ROBERTS	Art Unit 2466

CPC - Searched*		
Symbol	Date	Examiner

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

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

Search Notes		
Search Notes	Date	Examiner
PALM inventor search	06/29/2020	BSR
Search focused on: H04W36/18,00,169,0069,005,02,026,0011,30 H04L1/1887,1812,1893,12,18,1819,1867,189,1896,22 H04W88/ 08,02 H04W36/30 H04B7/022	06/29/2020	BSR
EAST text search: see search history printout	06/29/2020	BSR
IEEE Xplore "HARQ interference enhanced uplink"	06/29/2020	BSR

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
Interference search	See search history printout	06/29/2020	BSR

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Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)

Approved for use through 11/30/2020. OMB 0651-0031

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

Application Number	16283407
Filing Date	2019-02-22
First Named Inventor	Zhang et al.
Art Unit	2466
Examiner Name	ROBERTS, BRIAN S
Attorney Docket Number	SIG-2-0674US08

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Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6829482	B2	2004-12-07	Rune et al.	

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Art Unit	2466
Examiner Name	ROBERTS, BRIAN S
Attorney Docket Number	SIG-2-0674US08

1	3GPP, "3rd Generation Partnership Project; Technical Specification Group Radio Access Network; UTRAN Iub Interface User Plane Protocols for Common Transport Channel data streams (Release 5)," 3GPP TS 25.435 V5.5.0 (June 2003).
2	3GPP, "3rd Generation Partnership Project; Technical Specification Group Radio Access Network; UTRAN Iub Interface User Plane Protocols for Common Transport Channel data streams (Release 6)," 3GPP TS 25.435 V6.1.0 (March 2004).
3	3GPP, "3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Radio resource management strategies (Release 5)," 3GPP TR 25.922 V5.0.0 (March 2002).
4	Universal Mobile Telecommunications System (UMTS); "Radio resource management strategies (3GPP TR 25.922 version 5.1.0 Release 5)," ETSI TR 125 922 V5.1.0 (September 2003).
5	Universal Mobile Telecommunications System (UMTS); "Radio resource management strategies (3GPP TR 25.922 version 6.0.1 Release 6)," ETSI TR 125 922 V6.0.1 (April 2004).

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature	<u>/BRIAN S ROBERTS/</u>	Date Considered	<u>06/29/2020</u>
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	16283407
Filing Date	2019-02-22
First Named Inventor	Zhang et al.
Art Unit	2466
Examiner Name	ROBERTS, BRIAN S
Attorney Docket Number	SIG-2-0674US08

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Joseph P. Gushue/	Date (YYYY-MM-DD)	2020-06-22
Name/Print	Joseph P. Gushue	Registration Number	59,819

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	8,991	(enhanc\$3 near2 uplink or ("e-dch"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 15:21
S2	589	(enhanc\$3 near2 uplink or ("e-dch")) and HARQ and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 15:22
S3	637	(enhanc\$3 near2 uplink or ("e-dch")) and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 15:23
S4	637	((enhanc\$3 near2 uplink) or ("e-dch")) and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 15:23
S5	459	H04L1/1887.cpc. and (enhanc\$3 near2 uplink or ("e-dch"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 15:58
S6	459	H04L1/1887.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 16:04

S7	350	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 16:21
S8	6	"20030002470".pn. "20030031119".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 16:30
S9	71	"5794149".pn. "5946320".pn. "6434396".pn. "6643813".pn. "6678523".pn. "6907245".pn. "6915465".pn. "6977888".pn. "7046648".pn. "7054633".pn. "7103729".pn. "7124350".pn. "7158504".pn. "7185256".pn. "7269420".pn. "7283508".pn. "7315741".pn. "7317700".pn. "7403513".pn. "8023463".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 16:47
S10	70	H04L1/1893.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 16:53
S11	16	"20020093937".pn. "20030081692".pn. "20030202500".pn. "20060045010".pn. "20060105796".pn. "20070079207".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 16:54
S12	3	"20030003943".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 16:55
S13	66	"6678249".pn. "6778830".pn. "6892071".pn. "7013143".pn. "7346035".pn. "7414989".pn. "20020095635".pn. "20020191544".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2015/02/19 17:13

		"20030007480".pn. "20030043786".pn. "20030054824".pn. "20030081692".pn. "20030161284".pn. "20030210668".pn. "20040004954".pn. "20040072567".pn. "20040085934".pn. "20040120306".pn. "20040160925".pn. "20040202129".pn. "20040203991".pn. "20040219917".pn. "20040219919".pn. "20040219920".pn. "20040228313".pn.	DERWENT; IBM_TDB			
S14	15	"20050041694".pn. "20050047354".pn. "20050048920".pn. "20050083888".pn. "20070047501".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 17:19
S15	0	H04L1/12.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 20:33
S16	314	H04L1/12.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/19 20:34
S17	637	((enhanc\$3 near2 uplink) or ("e- dch") or ("EU-DCH"))and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 10:58
S18	77	H04L1/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2015/02/20 12:38

			DERWENT; IBM_TDB			
S19	884	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 12:52
S20	107	H04L1/1816.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 14:11
S21	178	H04L1/1819.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 14:27
S22	201	H04L1/1867.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 14:44
S23	49	H04L1/189.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 15:01
S24	105	H04L1/1896.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 15:16
S25	2	H04L1/22.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2015/02/20 15:30

			DERWENT; IBM_TDB			
S26	101	H04B7/022.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 15:34
S27	154	H04W36/30.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 16:03
S28	30	H04W36/00.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 16:20
S29	71	H04W36/02.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 16:37
S30	10	H04W36/16.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 16:44
S31	350	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 16:45
S32	10	"8457072".pn. "8130720".pn. "7046648".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2015/02/20 17:12

			DERWENT; IBM_TDB			
S33	2	"20040219917".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 17:13
S34	2,273,255	"73"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 17:14
S35	2	"7346035".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 17:14
S36	6	"8130720".pn. "8457072".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 17:32
S37	19	H04W36/24.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 17:44
S38	4	H04W36/26.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 17:46
S39	7	H04W36/28.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2015/02/20 17:46

			DERWENT; IBM_TDB			
S40	4	H04W36/34.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 17:47
S41	3	H04W36/38.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 17:48
S42	261	H04W88/08.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/02/20 18:03
S46	0	"6754496".pn. and "7206598".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 15:19
S48	9	"6754496".pn. "7206598".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 15:27
S49	9,371	(enhanc\$3 near2 uplink or ("e- dch"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 15:37
S50	614	(enhanc\$3 near2 uplink or ("e- dch")) and HARQ and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2015/06/22 15:38

			DERWENT; IBM_TDB			
S51	665	((enhanc\$3 near2 uplink) or ("e-dch")) and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 15:38
S52	496	H04L1/1887.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 15:38
S53	362	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 16:11
S54	73	H04L1/1893.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 16:52
S55	305	H04L1/12.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 17:09
S56	909	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 17:53
S57	909	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2015/06/22 19:40

			DERWENT; IBM_TDB			
S58	110	H04L1/1816.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 20:39
S59	188	H04L1/1819.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 20:44
S60	111	H04L1/1896.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 21:05
S61	2	H04L1/22.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 21:13
S62	104	H04B7/022.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 21:13
S63	161	H04W36/30.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 21:23
S64	72	H04W36/02.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2015/06/22 21:36

			DERWENT; IBM_TDB			
S65	10	H04W36/16.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 21:44
S66	362	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 21:53
S67	20	H04W36/24.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 22:27
S68	4	H04W36/26.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 22:28
S69	4	H04W36/26.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 22:28
S70	7	H04W36/28.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 22:28
S71	4	H04W36/34.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2015/06/22 22:29

			DERWENT; IBM_TDB			
S72	289	H04W88/08.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/22 22:30
S73	614	(enhanc\$3 near2 uplink or ("e-dch")) and HARQ and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/23 11:55
S74	1,148	(enhanc\$3 near2 uplink or ("e-dch")) and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/23 11:55
S78	936	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/14 14:54
S79	380	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/14 17:26
S80	680	((enhanc\$3 near2 uplink) or ("e-dch")) and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/14 18:05
S81	47	H04L1/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2015/08/14 19:49

			DERWENT; IBM_TDB			
S82	114	H04L1/1816.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/14 20:03
S83	195	H04L1/1819.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/14 20:12
S84	206	H04L1/1867.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/14 20:28
S85	51	H04L1/189.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/14 20:47
S86	115	H04L1/1896.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/14 20:57
S87	103	H04B7/022.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/14 21:08
S88	164	H04W36/30.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2015/08/14 21:23

			DERWENT; IBM_TDB			
S89	307	H04W88/08.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/14 21:39
S90	629	(enhanc\$3 near2 uplink or ("e- dch")) and HARQ and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/17 10:22
S91	5	"20120155304".pn. "20120039271".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/17 13:30
S92	2	"20120322492".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/17 13:55
S93	2	"20140254516".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/17 14:01
S94	0	"20090247206,pn."	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/17 14:11
S95	0	"20090247206.pn."	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2015/08/17 14:11

			DERWENT; IBM_TDB			
S96	2	"20090247206".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/17 14:11
S97	5	"6507567".pn. "20030131124".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/17 15:39
S101	639	((enhanc\$3 near2 uplink or ("e-dch"))) and HARQ and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/05 19:26
S102	970	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/05 20:59
S103	311	H04W88/08.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/06 07:31
S104	393	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/06 08:26
S105	527	H04L1/1887.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2015/10/20 19:03

			DERWENT; IBM_TDB			
S106	79	H04L1/1893.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/20 19:41
S107	0	H04L1/12.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/20 19:53
S108	170	H04W36/30.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/20 19:54
S109	30	H04W36/00.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/20 20:08
S110	76	H04W36/02.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/20 20:15
S111	11	H04W36/16.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/20 20:24
S112	401	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2015/10/20 20:26

			DERWENT; IBM_TDB			
S113	19	H04W36/24.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/20 21:03
S114	4	H04W36/26.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/20 21:12
S115	7	H04W36/28.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/20 21:15
S116	4	H04W36/34.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/20 21:17
S117	4	H04W36/38.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/20 21:22
S118	0	H04W88/00.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/20 21:26
S119	12,891	H04W36/18.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2015/10/20 21:39

			DERWENT; IBM_TDB			
S120	401	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/21 11:28
S121	1,005	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/21 12:05
S122	400	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/27 18:44
S123	527	H04L1/1887.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/27 19:04
S124	79	H04L1/1893.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/27 20:35
S125	0	H04L1/12.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/27 20:43
S126	50	H04L1/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2015/10/27 20:44

			DERWENT; IBM_TDB			
S127	1,005	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/27 20:50
S128	119	H04L1/1816.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/27 21:49
S129	7,623	H04L1/1819.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/27 21:56
S130	242	H04L1/1819.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/28 12:56
S131	209	H04L1/1867.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/28 13:15
S132	54	H04L1/189.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/28 13:44
S133	122	H04L1/1896.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2015/10/28 15:41

			DERWENT; IBM_TDB			
S134	2	H04L1/22.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/28 17:04
S135	4,126	H04L1/22.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/28 19:16
S136	107	H04B7/022.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/29 15:06
S137	169	H04W36/30.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/29 15:35
S138	31	H04W36/00.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/29 16:20
S139	76	H04W36/02.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/29 16:45
S140	11	H04W36/16.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2015/10/29 16:49

			DERWENT; IBM_TDB			
S141	400	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/29 16:55
S142	19	H04W36/24.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/29 17:14
S143	4	H04W36/26.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/29 17:15
S144	10	H04W36/28.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/29 17:15
S145	4	H04W36/34.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/29 17:16
S146	4	H04W36/38.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/29 17:16
S147	329	H04W88/08.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2015/10/29 17:16

			DERWENT; IBM_TDB			
S148	3,580	(enhanc\$3 near2 uplink or ("e-dch")) and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/29 17:27
S149	3,580	(enhanc\$3 near2 uplink or ("e-dch")) and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/29 19:44
S150	3,580	(enhanc\$3 near2 uplink or ("e-dch")) and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/31 18:36
S154	689	(enhanc\$3 near2 uplink or ("e-dch")) and HARQ and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 13:24
S155	17	"7046648".pn. "8130720".pn. "8457072".pn. "9215636".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 13:36
S156	8	"7283509".pn. "7366538".pn. "20010020285".pn. "20020115467".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 13:56
S157	1,176	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/05/26 14:18

			DERWENT; IBM_TDB			
S158	504	H04W88/08.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 14:23
S159	436	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:06
S160	570	H04L1/1887.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:07
S161	93	H04L1/1893.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:15
S162	0	H04L1/12.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:16
S163	198	H04W36/30.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:16
S164	36	H04W36/00.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/05/26 15:18

			DERWENT; IBM_TDB			
S165	79	H04W36/02.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:20
S166	13	H04W36/16.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:22
S167	436	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:22
S168	21	H04W36/24.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:25
S169	7	H04W36/26.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:25
S170	10	H04W36/28.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:25
S171	4	H04W36/34.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/05/26 15:25

			DERWENT; IBM_TDB			
S172	6	H04W36/38.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:26
S173	436	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:26
S174	1,176	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:27
S175	125	H04L1/1816.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:31
S176	256	H04L1/1819.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:31
S177	214	H04L1/1867.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:44
S178	1,553	(enhanc\$3 near2 uplink or ("e- dch")) and HARQ and ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/05/26 15:47

			DERWENT; IBM_TDB			
S179	1,645	(enhanc\$3 near2 uplink or ("e-dch")) and (HARQ or (hybrid near2 automatic near2 repeat near2 request\$4)) and ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/26 15:48
S180	702	(enhanc\$3 near2 uplink or ("e-dch")) and HARQ and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/05 15:41
S181	1,227	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/05 16:05
S182	516	H04W88/08.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/05 17:12
S183	442	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/05 18:28
S184	578	H04L1/1887.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/05 19:16
S185	1,227	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/07/05 20:28

			DERWENT; IBM_TDB			
S186	94	H04L1/1893.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/06 09:59
S187	0	H04L1/12.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/06 12:07
S188	203	H04W36/30.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/06 12:07
S189	35	H04W36/00.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/06 12:11
S190	80	H04W36/02.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/06 12:13
S191	14	H04W36/16.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/06 12:17
S192	442	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/07/06 12:20

			DERWENT; IBM_TDB			
S193	22	H04W36/24.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/06 12:35
S194	9	H04W36/26.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/06 12:38
S195	11	H04W36/28.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/06 12:38
S196	4	H04W36/34.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/06 12:41
S197	6	H04W36/38.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/06 12:45
S198	1,674	(enhanc\$3 near2 uplink or ("e-dch")) and (HARQ or (hybrid near2 automatic near2 repeat near2 request\$4)) and ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/06 12:45
S199	702	(enhanc\$3 near2 uplink or ("e-dch")) and HARQ and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/07/06 13:18

			DERWENT; IBM_TDB			
S203	10	"716167".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/07 12:22
S204	2	"7169167".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/07 12:23
S205	1,889	((enhanc\$3 near2 uplink or ("e-dch")) and (HARQ or (hybrid near2 automatic near2 repeat near2 request\$4)) and ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/08 17:07
S206	4	"20140294884".pn. "20140349647".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/08 17:25
S207	827	((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and soft near2 ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/08 18:26
S208	57	H04L1/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/09 08:06
S209	1,479	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2017/05/09 08:06

			DERWENT; IBM_TDB			
S210	4	"5530841".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/10 10:35
S211	3	"5680318".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/10 10:36
S212	546	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 16:01
S213	116	H04L1/1893.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 16:05
S214	1,490	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 16:09
S215	150	H04L1/1816.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 16:35
S216	1	("7283782").PN.	US-PGPUB; USPAT	OR	ON	2017/05/17 16:53
S217	2	("20020115460" "20020172208").PN.	US-PGPUB; USPAT	OR	ON	2017/05/17 16:54

S218	3	("6850771" "7428424" "9348381").PN.	US-PGPUB; USPAT	OR	ON	2017/05/17 16:54
S219	1	("7026911").PN.	US-PGPUB; USPAT	OR	ON	2017/05/17 16:54
S220	5	("6650905" "6754496" "6977888" "7065359" "7185256" "B2").PN.	US-PGPUB; USPAT	OR	ON	2017/05/17 16:54
S221	305	H04L1/1819.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 16:59
S222	234	H04L1/1867.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 17:04
S223	69	H04L1/189.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 17:12
S224	159	H04L1/1896.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 17:16
S225	2	H04L1/22.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 17:33
S226	546	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 17:34

S227	137	H04B7/022.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 17:34
S228	272	H04W36/30.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 17:46
S229	29	H04W36/00.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 18:19
S230	91	H04W36/02.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 18:21
S231	14	H04W36/16.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 19:02
S232	1,897	((enhanc\$3 near2 uplink) or ("e-dch")) and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/17 19:02
S233	1,794	(enhanc\$3 near2 uplink or ("e-dch")) and HARQ and ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/18 10:50

S234	546	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/18 11:38
S235	14	H04W36/24.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/18 14:58
S236	10	H04W36/26.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/18 14:58
S237	14	H04W36/28.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/18 14:59
S238	4	H04W36/34.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/18 15:00
S239	13	H04W36/38.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/18 15:00
S240	679	H04W88/08.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/05/18 15:01

S244	584	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 13:33
S245	82	("0032007" "0042007" "20010020285" "20020093937" "20020095635" "20020115460" "20020115467" "20020172208" "20020191544" "20030002470" "20030007480" "20030031119" "20030043786" "20030054824" "20030081692" "20030131124" "20030147370" "20030161284" "20030171118" "20030176195" "20030202500" "20030210668" "20040004954" "20040072567" "20040085934" "20040120306" "20040160925" "20040202129" "20040203991" "20040219917" "20040219919" "20040219920" "20040228313" "20050041694" "20050047354" "20050048920" "20050083888" "20060045010" "20060105796" "20060274712" "5794149" "5946320" "6434396" "6507567" "6628631" "6643813" "6650905" "6678249" "6678523" "6754496" "6778830" "6850771" "6892071" "6907245" "6915465" "6977888" "7013143" "7026911" "7046648" "7054633" "7065359" "7103729" "7124350" "7158504" "7185256" "7206598" "7269420" "7283508" "7283509" "7283782" "7315741" "7317700" "7346035" "7366538" "7403513" "7414989" "7428424" "7848290" "7903610" "8023463" "8682325" "9438381").PN.	US-PGPUB; USPAT	OR	ON	2018/06/13 13:39
S246	126	H04L1/1893.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 13:47

S247	1,620	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 13:52
S248	169	H04L1/1816.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 14:08
S249	321	H04L1/1819.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 14:15
S250	244	H04L1/1867.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 14:22
S251	79	H04L1/189.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 14:25
S252	167	H04L1/1896.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 14:30
S253	2	H04L1/22.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 14:38

S254	584	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 14:38
S255	144	H04B7/022.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 14:50
S256	584	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 14:55
S257	144	H04B7/022.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 15:05
S258	302	H04W36/30.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 15:18
S259	30	H04W36/00.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 15:32
S260	30	H04W36/00.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 15:32

S261	98	H04W36/02.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 15:33
S262	14	H04W36/16.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 15:33
S263	2,134	((enhanc\$3 near2 uplink) or ("e-dch")) and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and ((handover) or (handoff) or (hand\$3 near over) or (hand\$3 near2 off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 15:33
S264	2,355	((enhanc\$3 near2 uplink) or ("e-dch")) and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/06/13 16:18
S268	593	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 10:26
S269	147	H04B7/022.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 10:31
S270	147	H04B7/022.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 10:32

S271	309	H04W36/30.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 10:35
S272	31	H04W36/00.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 10:45
S273	100	H04W36/02.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 11:00
S274	14	H04W36/16.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 11:00
S275	2,418	((enhanc\$3 near2 uplink) or ("e-dch")) and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 11:01
S276	593	H04W36/18.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 11:15
S277	18	H04W36/24.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 11:15

S278	11	H04W36/26.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 11:17
S279	16	H04W36/28.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 11:17
S280	147	H04B7/022.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 11:17
S281	18	H04W36/24.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 11:20
S282	18	H04W36/38.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 11:24
S283	2	"9763156".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/04 12:06
S284	4	("5628631" "7277407" "7433337" "7606205").PN.	US-PGPUB; USPAT	OR	ON	2018/10/04 12:10
S288	3	("7266384" "7519016" "7558230").PN.	US-PGPUB; USPAT	OR	ON	2019/01/09 11:49
S289	1	("7974630").PN.	US-PGPUB; USPAT	OR	ON	2019/01/22 15:09

S290	5	"9918318".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/01/22 17:08
S291	72,276	((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:21
S292	42,056	((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and (ACK or NACK)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:23
S293	33,223	((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and ACK and NACK	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 10:24
S294	92	("0032007" "0042007" "0122006" "20010020285" "20020093937" "20020095635" "20020115460" "20020115467" "20020172208" "20020191544" "20030002470" "20030007480" "20030031119" "20030043786" "20030054824" "20030081692" "20030131124" "20030147370" "20030161284" "20030171118" "20030176195" "20030202500" "20030210668" "20040004954" "20040072567" "20040085934" "20040120306" "20040160925" "20040202129" "20040203991" "20040219917" "20040219919" "20040219920" "20040228313" "20050041694" "20050047354" "20050048920" "20050083888" "20060045010" "20060105796" "5628631" "5794149" "5933787" "5946320" "6434396" "6507567" "6628631" "6643813"	US-PGPUB; USPAT	OR	ON	2019/10/30 10:26

		"6650905" "6678249" "6678523" "6690939" "6754496" "6778830" "6850771" "6892071" "6907245" "6915465" "6977888" "7013143" "7026911" "7046648" "7054633" "7065359" "7103729" "7124350" "7158504" "7185256" "7206598" "7266384" "7269420" "7277407" "7283508" "7283509" "7283782" "7315741" "7317700" "7346035" "7366538" "7403513" "7414989" "7428424" "7433337" "7519016" "7558230" "7606205" "7848290" "7903610" "7974630" "8023463" "8682325" "9438381").PN.				
S295	8	"10219196".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 11:09
S296	62	h-arq near2 process near2 (id or identification)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 11:32
S297	1,833	harq near2 process near2 (id or identification)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 12:34
S298	1,654	harq near process near (id or identification)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 12:34
S299	1,662	((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) near process near (id or identification)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/10/30 12:35

			DERWENT; IBM_TDB			
S300	1,311	((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) near process near (id or identification) and (hybrid near2 automatic near2 repeat\$3 near2 request\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 12:36
S301	13,071	((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) near2 process and (hybrid near2 automatic near2 repeat\$3 near2 request\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 13:59
S302	3,402	((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) near3 (ID or identifier or identif\$8) and (hybrid near2 automatic near2 repeat\$3 near2 request\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 14:05
S303	3,562	((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) near3 (ID or identifier or identif\$8) and (hybrid near2 automatic near2 repeat\$3 near2 request\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 14:05
S304	2	"6678523".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 14:16
S305	2	"20030123470".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 14:17
S306	677	H04W36/18.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/10/30 14:44

			DERWENT; IBM_TDB			
S307	240	H04W36/00.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 14:53
S308	66	H04W36/16.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 14:58
S309	397	H04W36/0069.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 15:01
S310	3	"20120096513".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 15:02
S311	23	H04W36/005.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 15:07
S312	351	H04W36/02.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 15:10
S313	36	H04W36/026.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/10/30 15:12

			DERWENT; IBM_TDB			
S314	125	H04W36/0011.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 15:14
S315	841	H04W36/30.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 15:28
S316	5,788	H04L1/1887.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 16:06
S323	13,426	H04L1/1812.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 17:13
S324	3,764	H04L1/1812.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and (uplink or revers\$4) with schedul\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/30 17:15
S325	2	("10390279" "7372898").PN.	US-PGPUB; USPAT	OR	ON	2019/10/30 19:34
S326	2,210	H04W88/08.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and (uplink or revers\$4) with schedul\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/31 08:37
S327	2,247	H04W88/02.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR;	OR	ON	2019/10/31 12:32

		and (uplink or revers\$4) with schedul\$4	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S328	450	H04W36/30.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and (uplink or revers\$4) with schedul\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/31 14:51
S329	136	H04B7/022.cpc. and ((HARQ) or (H- ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and (uplink or revers\$4) with schedul\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/31 15:25
S333	4,772	((enhanc\$3 near2 uplink) or ("e- dch") or ("EU-DCH")) and interference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/07 15:53
S334	94	("10390279" "7372898" "0032007" "0042007" "0052006" "0122006" "20010020285" "20020093937" "20020095635" "20020115460" "20020115467" "20020172208" "20020191544" "20030002470" "20030007480" "20030031119" "20030043786" "20030054824" "20030081692" "20030131124" "20030147370" "20030161284" "20030171118" "20030176195" "20030202500" "20030210668" "20040004954" "20040072567" "20040085934" "20040120306" "20040160925" "20040202129" "20040203991" "20040219917" "20040219919" "20040219920" "20040228313" "20050041694" "20050047354" "20050048920" "20050083888" "20060045010" "5628631" "5794149" "5933787" "5946320" "6434396" "6507567" "6628631" "6643813" "6650905" "6678249" "6678523" "6690939" "6754496" "6778830"	US-PGPUB; USPAT	OR	ON	2019/11/07 15:55

		"6850771" "6892071" "6907245" "6915465" "6977888" "7013143" "7026911" "7046648" "7054633" "7065359" "7103729" "7124350" "7158504" "7185256" "7206598" "7266384" "7269420" "7277407" "7283508" "7283509" "7283782" "7315741" "7317700" "7346035" "7366538" "7403513" "7414989" "7428424" "7433337" "7519016" "7558230" "7606205" "7848290" "7903610" "7974630" "8023463" "8682325" "9438381").PN.				
S335	216	H04B7/022.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 09:39
S336	580	H04W36/30.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 09:40
S337	2,196	H04W88/02.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 09:41
S338	2,371	H04W88/08.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 10:27
S339	1,695	H04L1/1887.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 10:46

S340	4,108	H04L1/1812.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 10:52
S341	1,287	H04L1/1812.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 11:22
S342	224	H04L1/1893.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 11:29
S343	316	H04W36/18.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 11:33
S344	98	H04W36/00.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 11:42
S345	316	H04W36/18.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 11:54
S346	0	H04W36/169.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 11:54

S347	198	H04W36/0069.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 11:54
S348	8	"10219196".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 11:59
S349	121	H04L1/1893.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 12:24
S350	1,589	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 12:24
S351	171	H04L1/1816.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 12:25
S352	0	H04W36/0053.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 12:28
S353	4	H04W36/005.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 12:28

S354	79	H04W36/02.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 12:28
S355	316	S343	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 12:28
S356	22	H04W36/026.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 12:29
S357	56	H04W36/0011.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 12:29
S358	507	H04W36/30.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/08 12:29
S362	739	H04W36/18.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/20 09:17
S363	301	H04W36/00.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/20 09:42

S364	81	H04W36/16.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/20 09:42
S365	22	H04W36/005.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/20 10:02
S366	379	H04W36/02.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/20 10:03
S367	40	H04W36/026.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/20 10:07
S368	140	H04W36/0011.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/20 10:08
S369	939	H04W36/30.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/20 10:08
S370	2,426	H04W88/02.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/20 12:54

S371	2,583	H04W88/08.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/20 12:55
S372	1,945	H04L1/1887.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/20 13:45
S373	4,488	H04L1/1812.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/20 13:46
S374	190	H04L1/1816.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU-DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/21 10:43
S375	0	H04W36/0053.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/21 10:43
S379	3	"20190090293".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/21 12:10
S380	3	"20190021014".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/21 12:12

S381	3	"20190090293".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/22 10:03
S382	6	"20190090293".pn. "20190021014".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/22 10:15
S383	2	"20180368017".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/23 10:05
S384	1,007	bluetooth and master near2 slot	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/23 10:09
S385	721	bluetooth and master near2 slot and slave near2 slot	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/23 10:09
S386	1,805	H04L1/1812.cpc. and ((enhanc\$3 near2 uplink) or ("e-dch") or ("EU- DCH"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/06/27 11:57
S387	27	H04W36/026.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/06/27 11:59

S388	65	H04W36/0011.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/06/27 11:59
S389	563	H04W36/30.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference and (handoff\$4 or handover\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/06/27 12:00
S390	750	H04W36/18.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/06/27 12:00
S391	317	H04W36/00.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/06/27 12:00
S392	83	H04W36/16.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/06/27 12:00
S393	22	H04W36/005.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/06/27 17:36
S394	385	H04W36/02.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/06/27 17:36

S395	44	H04W36/026.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/06/27 20:04
S396	2,510	H04W88/02.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/06/28 12:59
S398	1	("6829482").PN.	US-PGPUB; USPAT	OR	ON	2020/06/29 09:09
S399	2,656	H04W88/08.cpc. and ((HARQ) or (H-ARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) and interference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/06/29 12:34

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S43	12	enhanced near2 uplink.clm. and soft near2 handover.clm.	USPAT	OR	ON	2015/02/20 18:25
S44	4	enhanced near2 uplink.clm. and soft near2 handover.clm. and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)).clm.	USPAT	OR	ON	2015/02/20 18:26
S45	7	enhanced near2 uplink.clm. and soft near2 handover.clm. and schedul\$.clm.	USPAT	OR	ON	2015/02/20 18:27
S75	12	enhanced near2 uplink.clm. and soft near2 handover.clm.	USPAT	OR	ON	2015/06/23 15:38
S76	4	enhanced near2 uplink.clm. and soft near2 handover.clm. and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)).clm.	USPAT	OR	ON	2015/06/23 15:40
S77	7	enhanced near2 uplink.clm. and soft near2 handover.clm. and schedul\$.clm.	USPAT	OR	ON	2015/06/23 15:42
S98	4	enhanced near2 uplink.clm. and soft near2 handover.clm. and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)).clm.	USPAT	OR	ON	2015/08/17 15:47

S99	7	enhanced near2 uplink.clm. and soft near2 handover.clm. and schedul\$.clm.	USPAT	OR	ON	2015/08/17 15:48
S100	1	enhanced near2 uplink.clm. and soft near2 handover.clm. and primary near2 cell.clm.	USPAT	OR	ON	2015/08/17 15:48
S151	4	enhanced near2 uplink.clm. and primary near2 cell.clm.	USPAT	OR	ON	2015/11/01 17:50
S152	51	enhanced near2 uplink.clm. and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)).clm.	USPAT	OR	ON	2015/11/01 17:52
S153	33	enhanced near2 uplink.clm. and schedul\$4 near2 information.clm.	USPAT	OR	ON	2015/11/01 17:57
S200	37	enhanced near2 uplink.clm. and schedul\$4 near2 information.clm.	USPAT	OR	ON	2016/07/06 13:28
S201	94	enhanced near2 uplink.clm. and schedul\$4 near2 information.clm.	US-PGPUB; USPAT	OR	ON	2016/07/06 13:28
S202	134	enhanced near2 uplink.clm. and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)).clm.	US-PGPUB; USPAT	OR	ON	2016/07/06 13:29
S241	99	enhanced near2 uplink.clm. and schedul\$4 near2 information.clm.	US-PGPUB; USPAT	OR	ON	2017/05/18 15:21
S242	99	enhanced near2 uplink.clm. and schedul\$4 near2 information.clm.	US-PGPUB; USPAT	OR	ON	2017/05/18 15:21
S243	147	enhanced near2 uplink.clm. and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)).clm.	US-PGPUB; USPAT	OR	ON	2017/05/18 15:26
S265	154	enhanced near2 uplink.clm. and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)).clm.	US-PGPUB; USPAT	OR	ON	2018/06/14 09:31
S266	102	enhanced near2 uplink.clm. and schedul\$4 near2 information.clm.	US-PGPUB; USPAT	OR	ON	2018/06/14 09:32
S267	10	enhanced near2 uplink.clm. and schedul\$4 near2 information.clm. and interference.clm.	US-PGPUB; USPAT	OR	ON	2018/06/14 09:51
S285	104	enhanced near2 uplink.clm. and schedul\$4 near2 information.clm.	US-PGPUB; USPAT	OR	ON	2018/10/04 12:20
S286	10	enhanced near2 uplink.clm. and schedul\$4 near2 information.clm. and interference.clm.	US-PGPUB; USPAT	OR	ON	2018/10/04 12:23
S287	154	enhanced near2 uplink.clm. and ((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)).clm.	US-PGPUB; USPAT	OR	ON	2018/10/04 12:23

S317	2,321	((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)) near2 process.clm.	US-PGPUB; USPAT	OR	ON	2019/10/30 14:02
S318	2,321	((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)).clm. near2 process.clm.	US-PGPUB; USPAT	OR	ON	2019/10/30 14:03
S319	345	((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)).clm. near2 process.clm. near2 (ID or identifier or identif\$7).clm.	US-PGPUB; USPAT	OR	ON	2019/10/30 14:03
S320	345	((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)).clm. near2 process.clm. near2 (ID or identifier or identif\$8).clm.	US-PGPUB; USPAT	OR	ON	2019/10/30 14:05
S321	54	((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)).clm. near2 process.clm. near2 (ID or identifier or identif\$8).clm. with uplink.clm.	US-PGPUB; USPAT	OR	ON	2019/10/30 14:06
S322	54	((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)).clm. near2 process.clm. near2 (ID or identifier or identif\$8).clm. with uplink.clm.	US-PGPUB; USPAT	WITH	ON	2019/10/30 14:06
S330	346	((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)).clm. near2 process.clm. near2 (ID or identifier or identif\$7).clm.	US-PGPUB; USPAT	OR	ON	2019/11/01 13:41
S331	55	((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)).clm. near2 process.clm. near2 (ID or identifier or identif\$8).clm. with uplink.clm.	US-PGPUB; USPAT	OR	ON	2019/11/01 13:41
S332	8	((HARQ) or (hybrid near2 automatic near2 repeat\$3 near2 request\$3)).clm. near2 process.clm. near2 (ID or identifier or identif\$8).clm. with uplink.clm. with retransmi\$6.clm.	US-PGPUB; USPAT	OR	ON	2019/11/01 13:42
S359	52	enhanced near2 uplink.clm. with hybrid near2 automatic near2 repeat near2 request\$4.clm.	US-PGPUB; USPAT	OR	ON	2019/11/08 11:43
S360	11	enhanced near2 uplink.clm. with hybrid near2 automatic near2 repeat near2 request\$4.clm. with cell.clm.	US-PGPUB; USPAT	OR	ON	2019/11/08 11:43
S361	2	enhanced near2 uplink.clm. with hybrid near2 automatic near2 repeat near2 request\$4.clm. with cell.clm. with interference.clm.	US-PGPUB; USPAT	OR	ON	2019/11/08 11:48

S376	52	enhanced near2 uplink.clm. with hybrid near2 automatic near2 repeat near2 request\$4.clm.	US-PGPUB; USPAT	OR	ON	2020/04/21 10:46
S377	11	enhanced near2 uplink.clm. with hybrid near2 automatic near2 repeat near2 request\$4.clm. with cell.clm.	US-PGPUB; USPAT	OR	ON	2020/04/21 10:46
S378	2	enhanced near2 uplink.clm. with hybrid near2 automatic near2 repeat near2 request\$4.clm. with cell.clm. with interference.clm.	US-PGPUB; USPAT	OR	ON	2020/04/21 10:46
S400	52	enhanced near2 uplink.clm. with hybrid near2 automatic near2 repeat near2 request\$4.clm.	US-PGPUB; USPAT	OR	ON	2020/06/29 13:14
S401	11	enhanced near2 uplink.clm. with hybrid near2 automatic near2 repeat near2 request\$4.clm. with cell.clm.	US-PGPUB; USPAT	OR	ON	2020/06/29 13:14
S402	2	enhanced near2 uplink.clm. with hybrid near2 automatic near2 repeat near2 request\$4.clm. with cell.clm. with interference.clm.	US-PGPUB; USPAT	OR	ON	2020/06/29 13:14

6/30/2020 9:07:30 AM

C:\Users\broberts\Documents\EAST\Workspaces\16283407.wsp

Bibliographic Data

Application No: 16/283,407

Foreign Priority claimed: ☐ Yes ☒ No

35 USC 119 (a-d) conditions met: ☐ Yes ☒ No ☐ Met After Allowance

Verified and Acknowledged: /BRIAN S ROBERTS/

BSR

Examiner's Signature

Initials

Title:

SUPPORTING ENHANCED UPLINK TRANSMISSION DURING
SOFT HANDOVER

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
02/22/2019	370	2466	SIG-2-0674US08
RULE			

APPLICANTS

Signal Trust for Wireless Innovation, Wilmington, DE, UNITED STATES

INVENTORS

Guodong Zhang Syosset, NY, UNITED STATES

Sung-Hyuk Shin Northvale, NJ, UNITED STATES

Stephen E. Terry Northport, NY, UNITED STATES

James M. Miller Verona, NJ, UNITED STATES

Stephen G. Dick Nesconset, NY, UNITED STATES

CONTINUING DATA

This application is a CON of 15699418 09/08/2017 PAT 10219196

15699418 is a CON of 14869313 09/29/2015 PAT 9763156

14869313 is a CON of 13908242 06/03/2013 PAT 9215636

13908242 is a CON of 13308950 12/01/2011 PAT 8457072

13308950 is a CON of 11434330 05/15/2006 PAT 8130720

11434330 is a CON of 10962720 10/12/2004 PAT 7046648

10962720 has PRO of 60578674 06/10/2004

10962720 has PRO of 60520692 11/17/2003

10962720 has PRO of 60519990 11/14/2003

10962720 has PRO of 60517656 11/05/2003

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

03/11/2019

STATE OR COUNTRY

UNITED STATES

ADDRESS

VOLPE AND KOENIG, P.C.

30 SOUTH 17TH STREET, 18TH FLOOR

PHILADELPHIA, PA 19103

UNITED STATES

FILING FEE RECEIVED

\$3,080

Best Available Copy
PART B - FEE(S) TRANSMITTAL

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

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Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

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

DM

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

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

3624 7590 07/17/2020
VOLPE AND KOENIG, P.C.
30 SOUTH 17TH STREET, 18TH FLOOR
PHILADELPHIA, PA 19103



Electronically filed on August 20, 2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/283,407	02/22/2019	Guodong Zhang	SIG-2-0674US08	6561

TITLE OF INVENTION: SUPPORTING ENHANCED UPLINK TRANSMISSION DURING SOFT HANDOVER

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$1000.00	\$0	10/19/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
ROBERTS, BRIAN S	2466	370-331000

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

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

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

2. For printing on the patent front page, list

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

1 Volpe and Koenig, P.C.

2

3

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

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

(A) NAME OF ASSIGNEE

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

Signal Trust for Wireless Innovation

Wilmington, DE

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

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

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

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 22-0493

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

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

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

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

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

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

Authorized Signature /Joseph P. Gushue/

Date August 2 02020

Typed or printed name Joseph P. Gushue

Registration No. 59,819

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the **PATENT APPLICATION** of:

Zhang et al.

Application No.: 16/283,407

Confirmation No.: 6561

Filed: February 22, 2019

For: SUPPORTING ENHANCED
UPLINK TRANSMISSION DURING SOFT
HANDOVER

Group: 2466

Examiner: Brian S. Roberts

Our File: SIG-2-0674US08

Date: August 20, 2020

COMMUNICATION

Re: New Notice of Allowance

Mail Stop Issue Fee (via EFS)
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The Applicant hereby acknowledges the new Notice of Allowance and Fees Due notification mailed July 17, 2020 in response to the Petition to Withdraw from Issue After Payment of Issue Fee, Request for Continued Examination (RCE) and IDS filed on June 22, 2020 in the subject application.

The issue fee payment of \$1,000.00 filed on June 4, 2020 has been applied by the Office and indicated as “previously paid” in the new Notice of Allowance; therefore, \$0 total fees are currently due.

6417859.1

Applicant: Signal Trust for Wireless Innovation
Application No.: 16/283,407

REMARKS

Applicant respectfully requests that an Issue Notification be issued promptly.

The Director is hereby authorized to change any deficiencies or credit any overpayments to the Volpe and Koenig Deposit Account No. 22-0493.

Respectfully submitted,

Signal Trust for Wireless Innovation

By /Joseph P. Gushue/
Joseph P. Gushue
Registration No. 59,819

Volpe and Koenig, P.C.
30 South 17th Street, Suite 1800
Philadelphia, PA 19103-4009
Telephone: (215) 568-6400
Facsimile: (215) 568-6499

JPG/pf
Enclosure

Electronic Acknowledgement Receipt

EFS ID:	40339225
Application Number:	16283407
International Application Number:	
Confirmation Number:	6561
Title of Invention:	SUPPORTING ENHANCED UPLINK TRANSMISSION DURING SOFT HANDOVER
First Named Inventor/Applicant Name:	Guodong Zhang
Customer Number:	3624
Filer:	Joseph P. Gushue/Margaret Ferello
Filer Authorized By:	Joseph P. Gushue
Attorney Docket Number:	SIG-2-0674US08
Receipt Date:	20-AUG-2020
Filing Date:	22-FEB-2019
Time Stamp:	16:57:20
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
------------------------	----

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	SIG_2_0674US08_Issue_Fee_Form_PTOL_85_20200820.pdf	110362 6a52b7175a7a49a996341a157a69a53e4eff31c3	no	1

Warnings:

Information:					
2	Miscellaneous Incoming Letter	SIG_2_0674US08_Communication_re_New_Notice_of_Allowance.pdf	87074	no	2
			4694cd81ce5a5c0d6f3a12dbe8f6557a9622fb7		
Warnings:					
Information:					
Total Files Size (in bytes):			197436		
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.					

PART B - FEE(S) TRANSMITTAL

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

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Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

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

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3624 7590 07/17/2020
VOLPE AND KOENIG, P.C.
30 SOUTH 17TH STREET, 18TH FLOOR
PHILADELPHIA, PA 19103

Electronically filed on August 20, 2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/283,407	02/22/2019	Guodong Zhang	SIG-2-0674US08	6561

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EXAMINER	ART UNIT	CLASS-SUBCLASS
ROBERTS, BRIAN S	2466	370-331000

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1 Volpe and Koenig, P.C.
2
3

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Signal Trust for Wireless Innovation

Wilmington, DE

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

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☐ Applicant asserting small entity status. See 37 CFR 1.27

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Authorized Signature /Joseph P. Gushue/

Date August 20, 2020

Typed or printed name Joseph P. Gushue

Registration No. 59,819



United States Patent and Trademark Office

Office of the Chief Financial Officer

Document Code:WFEE

User :C46472

Sale Accounting Date:08/21/2020

Sale Item Reference Number
16283407

Effective Date
08/20/2020

Document Number	Fee Code	Fee Code Description	Amount Paid	Payment Method
I20208K903345371	1501	UTILITY APPL ISSUE FEE	\$1,000.00	Salea



UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office
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P.O. Box 1450
Alexandria, Virginia 22313-1450
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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/283,407	09/29/2020	10791490	SIG-2-0674US08	6561

3624

7590

09/09/2020

Volpe Koenig
30 SOUTH 17TH STREET, 18TH FLOOR
PHILADELPHIA, PA 19103

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

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

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

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

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

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

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

Guodong Zhang, Syosset, NY;
Signal Trust for Wireless Innovation, Wilmington, DE;
Sung-Hyuk Shin, Northvale, NJ;
Stephen E. Terry, Northport, NY;
James M. Miller, Verona, NJ;
Stephen G. Dick, Nesconset, NY;

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