1	STEVEN A. NIELSEN, CALIFORNIA STATE BAR NO. 133864 (STEVE@NIELSENPATENTS.COM)				
2	100 LARKSPUR LANDING CIRCLE, SUITE	216			
3	LARKSPUR, CA 94939-1743 TELEPHONE:(415) 272-8210				
4	Attorneys for Plaintiff				
5	MENTONE SOLUTIONS LLC, a Texas limited	d liability corporation			
6					
7		DISTRICT COURT ICT OF CALIFORNIA			
8	SAN FRANCI	SCO DIVISION			
9		PATENT			
10	MENTONE SOLUTIONS LLC,	Case No			
11	Plaintiff,				
12	V.	ORIGINAL COMPLAINT FOR PATENT INFRINGEMENT			
13	PEPLINK INTERNATIONAL LIMITED, AGAINST ASUS COMPUTER INTERNATIONAL				
14 15	Defendant. Defendant. DEMAND FOR JURY TRIAL				
16	Plaintiff Mentone Solutions LL	C ("Plaintiff" or "Mentone") files this Original			
17	Complaint for Patent Infringement against	Peplink International Limited ("Defendant" or			
18	"Peplink") for infringement of United States Patent No. 6,952,413 (hereinafter "the '413 Patent")				
19	and would respectfully show the Court as follow	vs:			
20 21	PARTIES AND .	<u>JURISDICTION</u>			
22	1. This is an action for patent infringement under Title 35 of the United States Code.				
23	Plaintiff is seeking injunctive relief as well as damages.				
24	2. Jurisdiction is proper in this Court pursuant to 28 U.S.C. §§ 1331 (Federal				
25	Question) and 1338(a) (Patents) because this is a civil action for patent infringement arising				
26	under the United States patent statutes.				
27 28	3. Plaintiff is a Texas limited liability company with its office address at 15922				
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ORIGINAL COMPLAINT FOR PATENT INFRINGEMENT
AGAINST ACER AMERICA CORPORATION AND JURY DEMAND

13. On information and belief, Defendant has infringed and continues to infringe one or more claims, including at least Claim 5, of the '413 Patent by making, using (at least during internal testing and maintenance), importing, selling, and/or offering computer devices which are covered by at least Claim 5 of the '413 Patent. Defendant has infringed and continues to infringe the '413 patent directly in violation of 35 U.S.C. § 271.

Regarding Claim 5, Defendant sells, offers to sell, and/or uses computing devices including, without limitation, the Peplink's HD2, HD2 Mini, HD4 and HD2/HD4 with MediaFast Series of MAX Multi-Cellular Routers, and any similar devices ("Product"), which infringe at least Claim 5 of the '413 Patent. The Product is a mobile station that practices a multiple access communication method (e.g., time division multiple access). The Product has Dual Carrier HSPA+ (also referred to as DC-HSPA+) capability. Certain aspects of these elements are illustrated in the screen shots below and/or in screen shots provided in connection with other allegations herein.



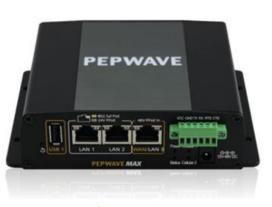
MAX HD2

Dual 4G LTE Mobile Router

The MAX HD2 gives you blazing fast connectivity on the road with dual embedded cellular moderns and SpeedFusion bandwidth bonding, plus a built-in 4-port GE switch to reduce clutter in your mobile deployments.



https://www.peplink.com/products/max-cellular-router/multi-cellular/#hd2











MAX HD2 Mini

Compact Dual 4G LTE Mobile Router

The MAX HD2 Mini packs big features, such as dual embedded cellular, SpeedFusion bandwidth bonding, and PoE, into a tough, compact enclosure that stands up to life on the go.



https://www.peplink.com/products/max-cellular-router/multi-cellular/#hd2mini











MAX HD4

Quad 4G LTE Mobile Router

The MAX HD4 delivers outstanding performance from all your connections with the help of SpeedFusion bandwidth bonding and intelligent load balancing.



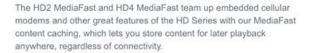
https://www.peplink.com/products/max-cellular-router/multi-cellular/#hd4

- 4 -



MAX HD2/4 with MediaFast

Quad 4G LTE Content Caching Router





https://www.peplink.com/products/max-cellular-router/multi-cellular/#MFA

	Product Code	Carrier	Embedded Modem	4G Bands	3G Bands
	MAX-HD2-LTE- US-T	Verizon/Sprint/AT&T/T- Mobile	2	4G LTE: B2, B4, B5, B13, B17, B25	WCDMA/HSPA+/DC-HSPA+: B1, B2, B4, B5, B8 EV-DO Rev.A: BC0, BC1, BC10
4G LTE	MAX-HD2-LTE- UE-T	1x Verizon/Sprint/ AT&T/T-Mobile 1x Europe/ International	2	Cellular 1: 4G LTE: B2, B4, B5, B13, B17, B25 Cellular 2: 4G LTE: B1, B3, B7, B8, B20	Cellular 1: WCDMA/HSPA+/DC-HSPA+: B1, B2, B4, B5, B8 EV-DO Rev.A: BC0, BC1, BC10 Cellular 2: WCDMA/HSPA+/DC-HSPA+: B1, B5, B6, B8
	MAX-HD2-LTE- E-T	Europe/International	2	4G LTE: B1, B3, B5, B7, B8, B20, B38 (TDD), B40(TDD), B41 (TDD)	WCDMA/HSPA+/DC-HSPA+: B1, B5, B8
4G LTE- A	MAX-HD2-LTEA- W-T	Americas/Europe	2	4G LTE-A: B1, B2, B3, B4, B5, B7, B8, B12, B13,B20, B25, B26, B29, B30, B41	WCDMA/HSPA+/DC-HSPA+: B1, B2, B3, B4, B5, B8
	MAX-HD2-LTEA- P-T	Asia Pacific	2	4G LTE-A: B1, B3, B5, B7, B8, B18, B19, B21, B28, B38, B39, B40, B41	WCDMA/HSPA+/DC-HSPA+: B1, B5, B8, B9, B19 UMTS: B6 TD-SCDMA: B39

https://www.peplink.com/products/max-cellular-router/multi-cellular/#hd2

	Product Code	Carrier	Embedded Modem	4G Bands	3G Bands
	MAX-HD2-MINI- LTE-US-T	Verizon/Sprint/AT&T/T- Mobile	2	4G LTE: B2, B4, B5, B13, B17, B25	WCDMA/HSPA+/DC-HSPA+: B1, B2, B4, B5, B8 EV-DO Rev.A: BC0, BC1, BC10
4G LTE	MAX-HD2-MINI- LTE-UE-T	1x Verizon/Sprint/AT&T/T- Mobile 1x Europe/ International	2	Cellular 1: 4G LTE: B2, B4, B5, B13, B17, B25 Cellular 2: 4G LTE: B1, B3, B7, B8, B20	Cellular 1: WCDMA/HSPA+/DC-HSPA+ B1, B2, B4, B5, B8 EV-DO Rev.A: BC0, BC1, BC10 Cellular 2: WCDMA/HSPA+/DC-HSPA+: B1, B5, B6, B8
	MAX-HD2-MINI- LTE-E-T	Europe/International	2	4G LTE: B1, B3, B5, B7, B8, B20, B38 (TDD), B40(TDD), B41 (TDD)	WCDMA/HSPA+/DC-HSPA+: B1, B5
4G	MAX-HD2-MINI- LTEA-W-T	Americas/Europe	2	4G LTE-A: B1, B2, B3, B4, B5, B7, B8, B12, B13, B20, B25, B26, B29, B30, B41	2500WCDMA/HSPA+/DC-HSPA+: B1,B2, B3, B4, B5, B8
LTE- A	MAX-HD2-MINI- LTEA-P-T	Asia Pacific	2	4G LTE-A: B1, B3, B5, B7, B8, B18, B19, B21, B28, B38, B39, B40, B41	WCDMA/HSPA+/DC-HSPA+: B1,B5 B8, B9, B19 UMTS: B6 TD-SCDMA: B39

	Product Code	Carrier	Embedded Modems	4G Bands	3G Bands
4G LTE	MAX-HD4-LTE- US-T	Verizon/Sprint/AT&T/T- Mobile	4	4G LTE: B2, B4, B5, B13, B17, B25	WCDMA/HSPA+/DC-HSPA+: B1, B2, B4, B5, B8 EV-DO Rev.A: BC0, BC1, BC10
	MAX-HD4-LTE- UE-T	2x Europe/ International 2x Verizon/Sprint/AT&T/T- Mobile	4	Cellular 1-2: 4G LTE: B1, B3, B7, B8, B20 Cellular 3-4: 4G LTE: B2, B4, B5, B13, B17, B25	Cellular 1 2: WCDMA/HSPA+/DC-HSPA+: B1, B2, B5, B6, B8 Cellular 3-4: WCDMA/HSPA+/DC-HSPA+: B1, B4, B5, B8 EV-DO Rev.A: BC0, BC1, BC10
	MAX-HD4-LTE- E-T	Europe/International	4	4G LTE: B1, B3, B5, B7, B8, B20, B38 (TDD), B40(TDD), B41 (TDD)	WCDMA/HSPA+/DC-HSPA+: B1, B5, B8
4G LTE- A	MAX-HD4-LTEA- W-T	Americas/Europe	4	4G LTE-A: B1, B2, B3, B4, B5, B7, B8, B12, B13, B20, B25, B26, B29, B30, B41	2500WCDMA/HSPA+/DC-HSPA+ B1, B2, B3, B4, B5, B8
	MAX-HD4-LTEA- P-T	Asia Pacific	4	4G LTE-A: B1, B3, B5, B7, B8, B18, B19, B21, B28, B38, B39, B40, B41	WCDMA/HSPA+/DC-HSPA+: B1,B5, B8, B9, B19 UMTS: B6 TD-SCDMA: B39

https://www.peplink.com/products/max-cellular-router/multi-cellular/#hd4

	Product Code	Carrier	Embedded Modem	4G Bands	3G Bands
	MAX-HD2- MFA-LTE- US-T	Verizon/Sprint/AT&T/T- Mobile	2	4G LTE: B2, B4, B5, B13, B17, B25	WCDMA/HSPA+/ HSPA+ B1, B2, B4, B5, E EV-DO Rev.A: BC0, BC1, BC10
	MAX-HD2- MFA-LTE- UE-T	1x Verizon/Sprint/AT&T/T- Mobile 1x Europe/ International	2	Cellular 1: 4G LTE: B2, B4, B5, B13, B17, B25 Cellular 2: 4G LTE: B1, B3, B7, B8, B20	Cellular 1- WCDMA/HSPA+, HSPA+; B1, B2, B4, B5, E EV-DO Rev.A: BC0, BC1, BC10 Cellular 2: WCDMA/HSPA+, HSPA+; B1, B2, B5, B6, E
4G	MAX-HD2- MFA-LTE-E- T	Europe/International	2	4G LTE: B1, B3, B5, B7, B8, B20, B38 (TDD), B40(TDD), B41 (TDD)	WCDMA/HSPA+ HSPA+: B1, B5,
LTE	MAX-HD4- MFA-LTE- US-T	Verizon/Sprint/AT&T/T- Mobile	4	4G LTE: B2, B4, B5, B13, B17, B25	WCDMA/HSPA+ HSPA+: B1, B2, B4, B5, I EV-DO Rev.A: BC0, BC1, BC10
	MAX-HD4- MFA-LTE- UE-T	2x Verizon/Sprint/AT&T/T- Mobile 2x Europe/ International	4	Cellular 1-2: 4G LTE: B2, B4, B5, B13, B17, B25 Cellular 3-4: 4G LTE: B1, B3, B7, B8, B20	Cellular 1-2: WCDMA/HSPA+ HSPA+: B1, B2, B4, B5, EV-DO Rev.A: BC0, BC1, BC10 Cellular 3-4: WCDMA/HSPA+ HSPA+: B1, B2, B5, B6, I
	MAX-HD4- MFA-LTE-E- T	Europe/International	4	4G LTE: B1, B3, B5, B7, B8, B20, B38 (TDD), B40(TDD), B41 (TDD)	WCDMA/HSPA+ HSPA+: B1, B5,
	MAX-HD2- MFA-LTEA- W-T	Americas/Europe	2	4G LTE-A: B1, B2, B3, B4, B5, B7, B8, B12, B13, B20, B25, B26, B29, B30, B41	2500WCDMA/H: HSPA+: B1,B2, I B5, B8
4G LTE- A	MAX-HD2- MFA-LTEA- P-T	Asia Pacific	2	4G LTE-A: B1, B3, B5, B7, B8, B18, B19, B21, B28, B38, B39, B40, B41	WCDMA/HSPA+ HSPA+: B1,B5, B B19 UMTS: B6 TD-SCDMA: B39
	MAX-HD4- MFA-LTEA- W-T	Americas/Europe	4	4G LTE-A; B1, B2, B3, B4, B5, B7, B8, B12, B13, B20, B25, B26, B29, B30, B41	2500WCDMA/H: HSPA+: B1.B2. I B5, B8
	MAX-HD4- MFA-LTEA- P-T	Asia Pacific	4	4G LTE-A: B1, B3, B5, B7, B8, B18, B19, B21, B28, B38, B39, B40, B41	WCDMA/HSPA+ HSPA+: B1,B5, I B19 UMTS: B6 TD-SCDMA: B39

15. Dual Carrier HSPA+ has been defined in ETSI Release 8 as shown below. Also as shown below, the use of shifted USF has been approved in Release 8 (TS 45.002 version 8.1.0) and Release 9 (version 45.002 9.5.0) in combination with dual carrier.

1 **Dual-Carrier HSPA+** 2 3GPP Release 8 defines dual-carrier or dual-cell high-speed downlink packet access (DC-HSDPA) to allow the network to transmit HSDPA data to a mobile device from two cells 3 simultaneously, doubling achievable downlink data rate to 42 Mbits/s. Dual-carrier 4 operation is characterized as simultaneous reception of more than one HS-DSCH transport channel. Dual-cell operation may be activated and deactivated using HS-SCCH orders. 5 https://www.electronicdesign.com/communications/understanding-hspa-cellular-technology#5 6 7 ETSI TS 145 002 V8.1.0 (2011-04) 8 9 Technical Specification 10 11 12 Digital cellular telecommunications system (Phase 2+); Multiplexing and multiple access on the radio path 13 (3GPP TS 45.002 version 8.1.0 Release 8) 14 15 https://www.etsi.org/deliver/etsi_ts/145000_145099/145002/08.01.00_60/ts_145002v080100p.pdf 16 17 3GPP TS 45.002 version 8.1.0 Release 8 ETSI TS 145 002 V8.1.0 (2011-04) 18 19 Scope 20 The present document defines the physical channels of the radio sub-system required to support the logical channels. For the Flexible Layer One, it defines the physical channels of the radio sub-system required to support the transport 21 channels. It includes a description of the logical channels, transport channels and the definition of frequency hopping, TDMA frames, timeslots and bursts. 22 https://www.etsi.org/deliver/etsi_ts/145000_145099/145002/08.01.00_60/ts_145002v080100p.pdf 23 24 25 26 27 28 - 8 -

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1	0151 1 A Rel-8 8.0.0 8.1.0 Clarification of Shifted USF operation in GP-49 GP-110464 approved G1 G1-49 GP-110464 agreed 2011-03-03 TEI7 - 2011-03-14					
2	combination with Dual Carrier DL					
3	0152 Rel-9 Clarification of G1-49 GP-110193 revised 2011-03-03 2011-03-14 revised clarification of receiver characteristics for					
4	multicarrier BTS equipped with multicarrier receiver					
5	0152 1 A Rel-9 9.4.0 9.5.0 Clarification of SP-49 GP-110465 approved G1 G1-49 GP-110465 agreed 2011-03-03 TEI7 - 2011-03-14 Shifted USF operation in					
6	combination with Dual Carrier DL					
7	0153 Rel-9 Clarification of G1-49 GP-110194 revised 2011-03-03 2011-03-14 Shifted USF in combination with					
8	0153 1 F Rel-9 9.4.0 9.5.0 Clarification of Shifted USF in Shifted					
9	Combination with EFTA					
10	http://www.3gpp.org/DynaReport/45002-CRs.htm					
11	Release-8, 8.1.0: http://www.3gpp.org/ftp/tsg_geran/TSG_GERAN/GERAN_49_Chengdu/Docs/GP-110464.zip ETSI Source: https://www.etsi.org/deliver/etsi_ts/145000_145099/145002/08.01.00_60/ts_145002v080100p.pdf					
12						
13	3GPP TS 45.002 version 8.1.0 Release 8 48 ETSI TS 145 002 V8.1.0 (2011-04)					
14	Note: In case of extended dynamic allocation, the MS needs to support USF monitoring on the downlink PDCHs corresponding to (i.e. with the same timeslot number as) all assigned uplink PDCHs as defined in 3GPP TS 44.060.					
15	In a dual carrier configuration, all the downlink timeslots on both radio frequency channels shall be assigned within a					
16	window of size "d" and all the uplink timeslots on both radio frequency channels shall be assigned within a window of size "u" where "d" and "u" are defined in Table 6.4.2.2.1. The maximum number of timeslots that may be assigned					
17	depends on the multislot class of the MS (or the Equivalent multislot class if different from the Signalled multislot class as described in B.4).					
18	In a dual carrier configuration, Shifted USF operation shall be determined per carrier according to the number of downlink and uplink timeslots assigned on each carrier.					
19	do name and aprilia universe designed on each carrier.					
20	Release TS 44.060 Source: https://www.etsi.org/deliver/etsi_ts/144000_144099/144060/08.07.00_60/ts_144060v080700p.pdf					
21	16. The Product practices receiving an assignment of at least a first PDCH					
22						
23	(e.g., first assigned uplink PDCH) and a second PDCH (e.g., second assigned uplink					
24	PDCH). These elements are illustrated in the screen shots below and/or in screen shots provided					
25	in connection with other allegations herein.					
26						
27						

1	When Shifted USF operation is used, the USF for the first assigned uplink PDCH shall be sent on the downlink PDCH corresponding to (i.e. with the same timeslot number as) the second assigned uplink PDCH. The MS shall monitor this downlink PDCH for the USF corresponding to both the first assigned uplink PDCH and the second assigned uplink					
2	PDCH. If the USF corresponding to the first assigned uplink PDCH is detected then the mobile station shall transmit on the first assigned uplink PDCH and all higher numbered assigned uplink PDCHs. Otherwise, operation shall be as described in sub-clause 8.1.1.2.1.					
4	The USF value corresponding to the first assigned uplink PDCH shall be different from the USF value corresponding to the second assigned uplink PDCH.					
5	When Shifted USF operation is used, PACCH operation shall be as described in sub-clause 8.1.1.2.2 except that the					
6	network shall transmit all PACCH messages on the PDCH carried on the downlink timeslot corresponding to the second lowest numbered timeslot in the uplink assignment, and the mobile station shall attempt to decode every downlink RLC/MAC block on that downlink PDCH.					
7 8	If a PACKET PDCH RELEASE message releases the second uplink PDCH in the current timeslot configuration of a mobile station using Shifted USF operation then the first uplink timeslot shall also be considered released. If any PDCHs remain in the new timeslot configuration then normal USF operation shall continue starting on the lowest available timeslot.					
9	https://www.etsi.org/deliver/etsi_ts/144000_144099/144060/08.07.00_60/ts_144060v080700p.pdf					
10	intposit www.etonorg/denver/eton_ton-111000 1111000 1111000 101100 101100 10110 111000 10110 111000 10110 111000 10110 111000 111000 111000 111000 111000 111000 111000 111000 111000 111000 111000 111000 111000 111000 111000 111000 111000 111000 1111000 111000 111000 111000 111000 111000 111000 111000 111000 111000 111000 111000 1110					
11						
12	8.1.1.2.1 Uplink PDCH Allocation					
13 14	The PACKET UPLINK ASSIGNMENT and MULTIPLE TBF UPLINK ASSIGNMENT messages assign to the mobile station a subset of 1 to N uplink PDCHs (when the uplink TBF operates in BTTI configuration) or uplink PDCH-pairs (when the uplink TBF operates in RTTI configuration), where N depends on the mobile station multislot class.					
15	An uplink TBF that operates in RTTI configuration may receive the assigned USFs either in BTTI USF mode or in RTTI USF mode. The indication of whether BTTI USF mode or RTTI USF mode is to be used is provided during the assignment of the corresponding uplink TBF.					
16	https://www.etsi.org/deliver/etsi_ts/144000_144099/144060/06.20.00_60/ts_144060v062000p.pdf					
1718	17. The Product practices monitoring (e.g., reading the header of each RLC/MAC					
19	block on a downlink PDCH) an assigned PDCH to detect a USF (uplink state flag).					
20	This is illustrated in in the screen shot below and/or in screen shots provided in connection with					
21	other allegations herein.					
22	5.2.3 Uplink State Flag					
2324	An Uplink State Flag (USF) is included in the header of each RLC/MAC block on a downlink PDCH, as specified in clause 10. It may be used by the network to control the multiplexing of different mobile stations and TBFs on an uplink PDCH. The use of USF is further specified in 3GPP TS 45.002.					
25	https://www.etsi.org/deliver/etsi_ts/144000_144099/144060/08.07.00_60/ts_144060v080700p.pdf					
26	18. The Product practices monitoring a first assigned PDCH to detect a USF					
27	corresponding to the first assigned PDCH and transmitting on the assigned PDCH					
28	- 10 -					
	ORIGINAL COMPLAINT FOR PATENT INFRINGEMENT					

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corresponding to the USF if shifted USF operation is not used. The Product will monitor the USF of the downlink PDCH corresponding to the assigned PDCH having the same slot number because there is no shifting operation. This is illustrated in in the screen shots below and/or in screen shots provided in connection with other allegations herein.

5.2.3 Uplink State Flag

An Uplink State Flag (USF) is included in the header of each RLC/MAC block on a downlink PDCH, as specified in clause 10. It may be used by the network to control the multiplexing of different mobile stations and TBFs on an uplink PDCH. The use of USF is further specified in 3GPP TS 45.002.

https://www.etsi.org/deliver/etsi_ts/144000_144099/144060/08.07.00_60/ts_144060v080700p.pdf

8.1.1.2.1 Uplink PDCH Allocation

The PACKET UPLINK ASSIGNMENT and MULTIPLE TBF UPLINK ASSIGNMENT messages assign to the mobile station a subset of 1 to N uplink PDCHs (when the uplink TBF operates in BTTI configuration) or uplink PDCH-pairs (when the uplink TBF operates in RTTI configuration), where N depends on the mobile station multislot class.

An uplink TBF that operates in RTTI configuration may receive the assigned USFs either in BTTI USF mode or in RTTI USF mode. The indication of whether BTTI USF mode or RTTI USF mode is to be used is provided during the assignment of the corresponding uplink TBF.

If a mobile station supports Downlink Dual Carrier, the PACKET UPLINK ASSIGNMENT or MULTIPLE TBF UPLINK ASSIGNMENT message may assign PDCHs (corresponding to any given uplink TBF) on more than one carrier frequency. If this occurs, the Extended Dynamic Allocation procedures shall operate independently on each of the two carriers.

A mobile station that has an uplink TBF operating in BTTI configuration shall monitor the downlink PDCHs corresponding to (i.e. with the same timeslot number as) its assigned uplink PDCHs starting with the lowest numbered PDCH, then the next lowest numbered PDCH, etc., up to the one corresponding to the highest numbered assigned uplink PDCH. A mobile station that has an uplink TBF operating in RTTI configuration shall monitor the downlink PDCH-pairs starting with the one corresponding to the uplink PDCH-pair with the lowest numbered timeslots, then the next uplink PDCH-pair, etc., up to the downlink PDCH-pair corresponding to the uplink PDCH-pair with the highest numbered timeslots assigned to the mobile station. When in dual transfer mode, the network shall not assign uplink PDCHs whose corresponding downlink PDCH cannot be monitored by the mobile station because of the presence of the uplink dedicated channel. As an exception, in the case of dual transfer mode, if the mobile station indicates support of DTM high multislot class capability, the network may also assign uplink PDCHs whose corresponding downlink PDCH cannot be monitored by the mobile station. In this case, the mobile station shall monitor only those downlink PDCHs that are feasible when taking into account the position of the uplink dedicated channel and the switching requirements of its multislot class (see 3GPP TS 45.002).

Whenever a mobile station with an uplink TBF operating in BTTI configuration detects an assigned USF value on a monitored PDCH, the mobile station shall transmit either a single RLC/MAC block or a sequence of four RLC/MAC blocks on the corresponding uplink PDCH (i.e. with the same timeslot number as the downlink PDCH on which the USF was detected) and all higher numbered assigned uplink PDCHs.

The following applies for an uplink TBF in RTTI configuration that receives USFs in BTTI USF mode:

 An assigned USF received on the first PDCH of a monitored downlink PDCH-pair allocates resources for one or four uplink RTTI radio blocks in the first two TDMA frames of the following basic radio block period(s) on the corresponding uplink PDCH-pair and all assigned uplink PDCH-pairs with higher numbered timeslots.

https://www.etsi.org/deliver/etsi_ts/144000_144099/144060/08.07.00_60/ts_144060v080700p.pdf

19. The accused product practices monitoring a second assigned PDCH to detect the USF corresponding to the first assigned PDCH and a USF corresponding to the second assigned PDCH (e.g., USF corresponding to both PDCHs are monitored on a

second assigned PDCH) if the shifted USF operation is used. This is illustrated in in the 1 2 screen shots below and/or in screen shots provided in connection with other allegations herein. 3 3GPP TS 45.002 version 8.1.0 Release 8 ETSI TS 145 002 V8.1.0 (2011-04) 4 If the downlink timeslots assigned (allocated) to the mobile station are not contiguous, d 5 shall also include the number of downlink timeslots not assigned (allocated) to the mobile station that are located between assigned (allocated) downlink timeslots. Similarly, if the uplink timeslots assigned (allocated) to the mobile station are not contiguous, u shall also 6 include the number of uplink timeslots not assigned (allocated) to the mobile station that are located between assigned (allocated) uplink timeslots. 7 Note 1 Normal measurements are not possible (see 3GPP TS 45.008). Note 2 Normal BSIC decoding is not possible (see 3GPP TS 45.008) except e.g. in case of a 8 downlink dual carrier capable MS operating in single carrier mode using its second receiver for BSIC decoding. Note 3 TA offset required for multislot classes 35-39. 9 Note 4 TA offset required for multislot classes 40-45. Shifted USF operation shall apply (see 3GPP TS 44.060). Note 5 10 Note 6 The network may fallback to a lower multislot class and may not apply Tra. A multislot class 38 or 39 MS shall in this case use Tta for timing advance values below 31. For dual carrier operation the Applicable Multislot class is the Signalled multislot class or Note 7 11 the Equivalent multislot class (if different from the Signalled multislot class) as defined in 12 Note 8 These configurations can only be used for assignment to an MS supporting Flexible Timeslot Assignment (see 3GPP TS 24.008). For allocation additional restrictions apply. Note 9 These configurations can be used only in RTTI configuration. 13 Note 10 These configurations can be used in RTTI configurations only when the timeslots of the corresponding downlink PDCH-pair are contiguous. 14 These configurations can be used only in RTTI configurations when the timeslots of the Note 11 corresponding downlink PDCH-pair are not contiguous. 15 https://www.etsi.org/deliver/etsi_ts/145000_145099/145002/08.01.00_60/ts_145002v080100p.pdf 16 8.1.1.2.4 Shifted USF operation 17 In some instances (see 3GPP TS 45.002), Shifted USF operation shall apply. 18 When Shifted USF operation is used, the USF for the first assigned uplink PDCH shall be sent on the downlink PDCH corresponding to (i.e. with the same timeslot number as) the second assigned uplink PDCH. The MS shall monitor this 19 downlink PDCH for the USF corresponding to both the first assigned uplink PDCH and the second assigned uplink PDCH. If the USF corresponding to the first assigned uplink PDCH is detected then the mobile station shall transmit on 20 the first assigned uplink PDCH and all higher numbered assigned uplink PDCHs. Otherwise, operation shall be as described in sub-clause 8.1.1.2.1. 21 The USF value corresponding to the first assigned uplink PDCH shall be different from the USF value corresponding to the second assigned uplink PDCH. 22 When Shifted USF operation is used, PACCH operation shall be as described in sub-clause 8.1.1.2.2 except that the network shall transmit all PACCH messages on the PDCH carried on the downlink timeslot corresponding to the second 23 lowest numbered timeslot in the uplink assignment, and the mobile station shall attempt to decode every downlink RLC/MAC block on that downlink PDCH. 24 If a PACKET PDCH RELEASE message releases the second uplink PDCH in the current timeslot configuration of a 25 mobile station using Shifted USF operation then the first uplink timeslot shall also be considered released. If any PDCHs remain in the new timeslot configuration then normal USF operation shall continue starting on the lowest available timeslot. 26 27 https://www.etsi.org/deliver/etsi_ts/144000_144099/144060/08.07.00_60/ts_144060v080700p.pdf 28

1	3GPP TS 45.002 version 8.1.0 Release 8 48 ETSI TS 145 002 V8.1.0 (2011-04)				
2	Note: In case of extended dynamic allocation, the MS needs to support USF monitoring on the downlink PDCHs corresponding to (i.e. with the same timeslot number as) all assigned uplink PDCHs as defined in 3GPP TS 44.060.				
4	In a dual carrier configuration, all the downlink timeslots on both radio frequency channels shall be assigned within a				
5	window of size "d" and all the uplink timeslots on both radio frequency channels shall be assigned within a window of size "u" where "d" and "u" are defined in Table 6.4.2.2.1. The maximum number of timeslots that may be assigned depends on the multislot class of the MS (or the Equivalent multislot class if different from the Signalled multislot class as described in B.4).				
	In a dual carrier configuration, Shifted USF operation shall be determined per carrier according to the number of				
7	downlink and uplink timeslots assigned on each carrier.				
89	https://www.etsi.org/deliver/etsi_ts/145000_145099/145002/08.01.00_60/ts_145002v080100p.pdf				
10	20. Defendant's actions complained of herein will continue unless Defendant is				
11	enjoined by this court.				
12	21. Defendant's actions complained of herein are causing irreparable harm and				
13	monetary damage to Plaintiff and will continue to do so unless and until Defendant is enjoined				
14 15	and restrained by this Court.				
16	22. Plaintiff is in compliance with 35 U.S.C. § 287.				
17	JURY DEMAND				
18	Plaintiff, under Rule 38 of the Federal Rules of Civil Procedure, requests a trial by jury				
19	of any issues so triable by right.				
20					
21	PRAYER FOR RELIEF				
22					
23	WHEREFORE, Plaintiff asks the Court to:				
24	(a) Enter judgment for Plaintiff on this Complaint on all causes of action asserted				
25	herein;				
26	(b) Enter an Order enjoining Defendant, its agents, officers, servants, employees,				
27	attorneys, and all persons in active concert or participation with Defendant who receive notice of				
28	12				
	- 13 -				

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19 20 21 22 23 24 25 26 27 28						
(c) Award Plaintiff damages resulting from Defendant's infringement in accordance with 35 U.S.C. § 284; (d) Award Plaintiff pre-judgment and post-judgment interest and costs; and (e) Award Plaintiff such further relief to which the Court finds Plaintiff entitled under law or equity. December 27, 2018 By /s/Steven A. Nielsen Steven A. Nielsen 100 Larkspur, CA 94939 PHONE 415 272 8210 E-MAIL: Steve@NielsenPatents.com Attorneys for Plaintiff Mentone Solutions LLC Suite 13000 Dallas, TX 75201 (214) 451-0164 jay@kjpllc.com Attorneys for Plaintiff Mentone Solutions LLC LLC	1	the order from further infringement of United States Patent No. 6,952,413 (or, in the alternative,				
with 35 U.S.C. § 284; (d) Award Plaintiff pre-judgment and post-judgment interest and costs; and (e) Award Plaintiff such further relief to which the Court finds Plaintiff entitled under law or equity. December 27, 2018 By /s/Steven A. Nielsen 100 Larkspur Landing Circle, Suite 216 Larkspur, CA 94939 PHONE 415 272 8210 E-MAIL: Steve@NielsenPatents.com (Application for Admission Pro Hac Vice to be filed) Kizzia Johnson PLLC 1910 Pacific Ave. Suite 13000 Dallas, TX 75201 (214) 451-0164 jay@kjpllc.com Kizzia Johnson PLC 1910 Pacific Ave. LLC LLC LLC	2	awarding Plaintiff a running royalty from the time of judgment going forward);				
December 27, 2018 December 27, 2018 By Steven A. Nielsen Steven A. Nielsen 100 Larkspur, CA 94939 PHONE 415 272 8210 E-MAIL: Steve@NielsenPatents.com Attorneys for Plaintiff Mentone Solutions LLC Suite 13000 Dallas, TX 75201 (214) 451-0164 jay@kjpllc.com Steven A. Nielsen 100 Larkspur, CA 94939 PHONE 415 272 8210 E-MAIL: Steve@NielsenPatents.com Attorneys for Plaintiff Mentone Solutions LLC LLC LLC Suite 216 Larkspur, CA 94939 PHONE 415 272 8210 E-MAIL: Steve@NielsenPatents.com Attorneys for Plaintiff Mentone Solutions LLC LLC 22 23 24 25 26 27 28	4 5 6	with 35 U.S.C. § 284; (d) Award Plaintiff pre-judgment and p	post-judgment interest and costs; and			
December 27, 2018 December 27, 2018 December 27, 2018 By Steven A. Nielsen Steven A. Nielsen 100 Larkspur Landing Circle, Suite 216 Larkspur, CA 94939 PHONE 415 272 8210 E-MAIL: Steve@NielsenPatents.com Attorneys for Plaintiff Mentone Solutions LLC Suite 13000 Dallas, TX 75201 (214) 451-0164 jay@kjplle.com LLC LLC Suite 13000 Dallas, TX 75201 (214) 451-0164 jay@kjplle.com	8	law or equity.				
п — 14—	10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	OF COUNSEL: Jay Johnson (Application for Admission <i>Pro Hac Vice</i> to be filed) Kizzia Johnson PLLC 1910 Pacific Ave. Suite 13000 Dallas, TX 75201 (214) 451-0164	Steven A. Nielsen 100 Larkspur Landing Circle, Suite 216 Larkspur, CA 94939 PHONE 415 272 8210 E-MAIL: Steve@NielsenPatents.com Attorneys for Plaintiff Mentone Solutions LLC			