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3	LARKSPUR, CA 94939-1743 TELEPHONE:(415) 272-8210					
4	, ,					
5	Attorneys for Plaintiff MENTONE SOLUTIONS LLC, a Texas limited	d liability corporation				
6						
7		DISTRICT COURT ICT OF CALIFORNIA				
8						
9	SAN FRANCI	SCO DIVISION				
10	MENTONE SOLUTIONS LLC,	PATENT				
11	Plaintiff,	Case No				
12	V.	ORIGINAL COMPLAINT FOR				
13	ASUS COMPUTER INTERNATIONAL,	PATENT INFRINGEMENT AGAINST ASUS COMPUTER				
14	Defendant.	INTERNATIONAL				
15	2 oronaum.	DEMAND FOR JURY TRIAL				
16	Plaintiff Mentone Solutions LL	C ("Plaintiff" or "Mentone") files this Original				
17	Complaint for Patent Infringement against Asus Computer International, Inc. ("Defendant" or					
18	"ASUS") 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	PARTIES AND .	<u>JURISDICTION</u>				
21		agement under Title 35 of the United States Code.				
22	Plaintiff is seeking injunctive relief as well as da					
23						
24		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	3. Plaintiff is a Texas limited liab	pility company with its office address at 15922				
28	_	1 -				
	ORIGINAL COMPLAINT FOR PATENT INFRINGEM	ENT				

Title 35 of the United States Code.

- 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 mobile 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.
- 14. Regarding Claim 5, Defendant sells, offers to sell, and/or uses computing devices including, without limitation, the Asus ZenFone 4 Pro mobile device (e.g., ZenFone 4 Pro Zs551KL), 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.

- 3 -



ZenFone 4 Pro (ZS551KL)

 Network
 FDD-LTE, TD-LTE, WCDMA/HSPA+/DC-HSPA+, GSM/GPRS/EDGE

 Standard
 LTE Cat12: UL 100 Mbps / DL 600 Mbps (TW/WW version)

 LTE Cat12: UL 150 Mbps / DL 600 Mbps (US/CA/BR/CO/JP/IN version)
 LTE 3CA 4x4 MIMO support (varies by region)

 DC-HSPA+: UL 5.76 / DL 42 Mbps
 FDD-LTE (Bands 1, 2, 3, 4, 5, 7, 8, 17, 18, 19, 20, 26, 28, 29, 30)

 TD-LTE (Bands 38, 39, 41)

Features A

Gallery

Tech Specs

https://www.asus.com/us/Phone/ZenFone-4-Pro-ZS551KL/Tech-Specs/

15. Dual Carrier HSPA+ has been defined in ETSI Release 8 as shown below. Also

WCDMA (Bands 1, 2, 3, 4, 5, 6, 8, 19)

EDGE/GPRS/GSM (850, 900, 1800, 1900MHz)

as shown below, the use of shifted USF	has been app	proved in Release 8 (TS 45
version 8.1.0) and Release 9 (version 45.0	002 9.5.0) in c	combination with dual carrier.
Dual-Carrier HSPA+		
Dual-Carrier HSPA+		
3GPP Release 8 defines dual-carrier or dual- HSDPA) to allow the network to transmit HS		
simultaneously, doubling achievable downlin		
operation is characterized as simultaneous re channel. Dual-cell operation may be activated	-	
https://www.electronicdesign.com/communication		
nteps.//www.cectromedesign.com/communication	ns anderstanding	g napa centular teenmologyno
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EISH	5 145	002 V8.1.0 (2011-0
		Tanhainal Canadian
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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 receiver characteristics for	-		-	-	G1-49	GP-110193	revised	2011-03-03		-	2011-03-14
4					multicarrier BTS equipped with											
5	0152 1 A	Rel-9	9.4.0	9.5.0	multicarrier receiver Clarification of Shifted USF operation in	3P-49	GP-110465	approved	G1	G1-49	GP-110465	agreed	2011-03-03	TEI7		2011-03-14
6					combination with Dual Carrier DL											
7	0153 -  -	Rel-9			Clarification of Shifted USF in combination with EFTA	Ī			-	G1-49	GP-110194	revised	2011-03-03		-	2011-03-14
8	0153 1 F	Rel-9	9.4.0	9.5.0	Clarification of Shifted USF in	GP-49	GP-110454	approved	G1	G1-49	GP-110454	agreed	2011-03-03	TEI9	-	2011-03-14
9					combination with EFTA											
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15														annels shall be assigne		
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- 6 -

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
2 3	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 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 network shall transmit all PACCH messages on the PDCH carried on the downlink timeslot corresponding to the second
6	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	
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
17 18	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
<ul><li>23</li><li>24</li></ul>	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 28	corresponding to the first assigned PDCH and transmitting on the assigned PDCH
40	- 7 -
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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 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 screen 1 2 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. Note 7 For dual carrier operation the Applicable Multislot class is the Signalled multislot class or 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
3	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 window of size "d" and all the uplink timeslots on both radio frequency channels shall be assigned within a window of
5	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).
7	In a dual carrier configuration, Shifted USF operation shall be determined per carrier according to the number of
8	downlink and uplink timeslots assigned on each carrier.
9	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	and restrained by this Court.
15 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	
20	of any issues so triable by right.
21	PRAYER FOR RELIEF
22	WHEREFORE, Plaintiff asks the Court to:
23	(a) Enter judgment for Plaintiff on this Complaint on all causes of action asserted
24	herein;
25	(b) Enter an Order enjoining Defendant, its agents, officers, servants, employees,
26	attorneys, and all persons in active concert or participation with Defendant who receive notice of
27	the order from further infringement of United States Patent No. 6,952,413 (or, in the alternative,
28	the order from further infringement of Officed States 1 atom 140, 0,752,715 (of, in the atternative,
	- 10 -

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(c) Award Plaintiff damages resul	lting fro	om Defendant's infringement in accord
with 35 U.S.C. § 284;  (d) Award Plaintiff pre-judgment a	and pos	t-judgment interest and costs; and which the Court finds Plaintiff entitled u
December 27, 2018  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 jay@kjpllc.com	Ву	/s/Steven A. Nielsen Steven A. Nielsen Nielsen Patents 100 Larkspur Landing Circle, Suite 21 Larkspur, CA 94939 PHONE 415 272 8210 E-MAIL: Steve@NielsenPatents.com Attorneys for Plaintiff Mentone Solution LLC

ORIGINAL COMPLAINT FOR PATENT INFRINGEMENT AGAINST ACER AMERICA CORPORATION AND JURY DEMAND