

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

DELL INC.,
ZTE (USA) INC.,
and
ZTE CORPORATION,
Petitioners,

v.

3G LICENSING S.A.,
Patent Owner.

Case No. IPR2020-01157

U.S. Patent No. 7,274,933

**DECLARATION OF DR. APOSTOLOS K. KAKAES IN SUPPORT OF
PETITIONER DELL INC.'S REPLY TO PATENT OWNER'S RESPONSE
UNDER 37 C.F.R. § 42.23**

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TABLE OF EXHIBITS

Exhibit	Description
1001	U.S. Patent No. 7,274,933 (“the ’933 patent”)
1002	Copy of Prosecution History of the ’933 patent
1004	U.S. Patent Appl. Publ. No. 2003/0022689 (“McElwain”)
1005	U.S. Patent Appl. Publ. No. 2004/0204136 (“Uchida”)
1006	U.S. Patent No. 7,027,813 (“Hicks”)
1007	3rd Generation Partnership Project; Technical Specification Group Core Network; NAS Functions related to Mobile Station (MS) in idle mode (Release 5) (3GPP TS 23.122 V5.2.0) (“TS-23.122”)
1008	3rd Generation Partnership Project; Technical Specification Group Services and System Aspects – Service aspects; Service principles (Release 5) (3GPP TS 22.101 V5.8.0) (“TS-22.101”)
1009	3rd Generation Partnership Project; Technical Specification Group Terminals; Characteristics of the USIM Application (Release 5) (3GPP TS 31.102 V5.3.0) (“TS-31.102”)
1010	Declaration of Craig Bishop
1011	Complaint for Patent Infringement, No. 1:19-cv-01247-LPS (D. Del. July 1, 2019)
1012	Complaint for Patent Infringement, No. 3:19-cv-01694 (N.D. Tex. July 15, 2019)
1013	Complaint for Patent Infringement, No. 1:19-cv-01140-MN (D. Del. June 20, 2019)
1014	Complaint for Patent Infringement, No. 1:19-cv-01144-MN (D. Del. June 20, 2019)
1015	Amended Complaint for Patent Infringement, No. 1:20-cv-20813 (S.D. Fl. Feb. 25, 2020)
1016	EIA/TIA-553 Standard (AMPS)
1017	Excerpts from EIA/TIA/IS-54 Standard (Digital AMPS)
1018	Excerpts from TIA/EIA/136.1 Standard
1019	Excerpts from TIA/EIA/IS-136.2-A Standard
1020	Excerpts from TIA/EIA/IS-95 Standard

Exhibit	Description
1021	Excerpts from T. Halonen et al., “GSM, GPRS and EDGE Performance: Evolution Towards 3G/UMTS” (2d ed. Wiley 2003)
1022	3rd Generation Partnership Project; Technical Specification Group Terminals Specification of the Subscriber Identity Module – Mobile Equipment (SIM - ME) interface (Release 1999) (3GPP TS 11.11 V8.6.0) (“TS-11.11”)
1023	Excerpts from A. Mehrotra, “GSM System Engineering” (Artech House 1997)
1024	U.S. Patent No. 5,950,130 (“the ’130 patent”)
1025	U.S. Patent No. 5,862,471 (“the ’471 patent”)
1026	U.S. Patent No. 6,195,532 (“Bamburak”)
1027	U.S. Patent Appl. Publ. No. 2001/0001875 (“Hirsch”)
1028	U.S. Patent Appl. Publ. No. 2002/0111180 (“Hogan”)
1030	3rd Generation Partnership Project; Technical Specification Group Terminals; Test Specification for ‘C’-language binding to (U)SIM API (Release 6) (3GPP TS 34.131 V6.0.0) (“TS-34.131”)

I, Dr. Apostolos K. “Paul” Kakaes, hereby declare as follows:

I. INTRODUCTION AND QUALIFICATIONS

1. I understand that the Patent Trial and Appeal Board (“PTAB” or “Board”) has instituted an *inter partes* review (“IPR”) of U.S. Patent No. 7,274,933 (“the ’933 patent”) (Ex. 1001). I have been asked to offer opinions in support of Petitioners’ reply to Patent Owner’s response.

2. I am not, and never have been, an employee of any of the Petitioners in this IPR. I received no compensation for this Declaration beyond my normal hourly compensation based on my time actually spent on the assignment described above, and I will not receive any added compensation based on the outcome of any IPR or other proceeding involving the ’933 patent.

3. My qualifications and experience to provide the opinions in this Declaration were previously provided in the first declaration I prepared in support of the Petition in this IPR, and are incorporated by reference here.

4. My understandings of the legal principles as outlined in the first declaration that I prepared in support of the Petition in this IPR have not changed, and are incorporated by reference here.

5. My identification of the relevant field of art and the definition of a POSITA in that field were set forth in my first declaration, and are incorporated by reference here. My analysis of the proposed substitute claims in this Declaration use

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