

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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APPLE, INC., BLACKBERRY CORP.,<sup>1</sup>  
LG ELECTRONICS INC., SAMSUNG ELECTRONICS CO., LTD., and  
SAMSUNG ELECTRONICS AMERICA, INC.,  
Petitioner,

v.

UNILOC 2017 LLC,  
Patent Owner.

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IPR2019-00222  
Patent 7,167,487 B2

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Before JOSIAH C. COCKS, ROBERT J. WEINSCHENK, and  
JOHN F. HORVATH, *Administrative Patent Judges*.

HORVATH, *Administrative Patent Judge*.

JUDGMENT  
Final Written Decision  
Determining All Challenged Claims Unpatentable  
*35 U.S.C. § 318(a)*

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<sup>1</sup> BlackBerry Corp., who filed a petition in IPR2019-01282, has been joined as a petitioner to this proceeding.

## I. INTRODUCTION

### A. Background

Apple Inc., LG Electronics Inc., Samsung Electronics Co., Ltd., and Samsung Electronics America, Inc. (“Petitioner”)<sup>2,3</sup> filed a Petition requesting *inter partes* review of claims 1–6 (“the challenged claims”) of U.S. Patent No. 7,167,487 B2 (Ex. 1001, “the ’487 patent”). Paper 5 (“Pet.”), 1. Uniloc 2017 LLC (“Patent Owner”), filed a Preliminary Response. Paper 9. Upon consideration of the Petition and Preliminary Response, we instituted *inter partes* review of all challenged claims on all grounds raised. Paper 11 (“Dec. Inst.”).

Patent Owner filed a Response to the Petition (Paper 14, “PO Resp.”), Petitioner filed a Reply (Paper 16, “Pet. Reply”), and Patent Owner filed a Sur-Reply (Paper 17, “PO Sur-Reply”). An oral hearing was held on March 3, 2020, and the hearing transcript is included in the record. *See* Paper 26 (“Tr.”).

We have jurisdiction under 35 U.S.C. § 6(b). This is a Final Written Decision under 35 U.S.C. § 318(a) and 37 C.F.R. § 42.73. For the reasons set forth below, we find Petitioner has shown by a preponderance of evidence that claims 1–6 of the ’487 patent are unpatentable.

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<sup>2</sup> Petitioner identifies LG Electronics U.S.A., Inc. and LG Electronics Mobilecomm U.S.A. Inc. as real parties-in-interest. Pet. 76.

<sup>3</sup> BlackBerry Corp., which has been joined as a party to this proceeding, is also a Petitioner in this proceeding. *See* Paper 15.

*B. Related Matters*

Petitioner and Patent Owner identify various matters between Uniloc USA, Inc. or Uniloc 2017 LLC, and Apple, Inc., Blackberry Corp., HTC America, Inc., Huawei Device USA, Inc., LG Electronics USA, Inc., Microsoft Corp., Motorola Mobility, LLC, Samsung Electronics America, Inc., or ZTE (USA), in various Federal District Courts, including District Courts for the Eastern, Western, and Northern Districts of Texas, the Central and Northern Districts of California, the District of Delaware, and the Western District of Washington, as matters that can affect or be affected by this proceeding. *See* Pet. 76; Paper 7, 2.

*C. Evidence Relied Upon*<sup>4</sup>

<b>References</b>	<b>Effective Date</b> <sup>5</sup>	<b>Exhibit</b>
<i>MAC protocol specification (Release 1999), 3rd Generation Partnership Project, 3GPP TS 25.321 V3.6.0 (2000–12) (“TS 25.321”).</i>	Dec. 10, 2000	1007
<i>Corrections to logical channel priorities in MAC protocol, 3rd Generation Partnership Project, 3GPP TSG-RAN WG2 Meeting #18 (“R2-010182”).</i>	Jan. 23, 2001	1008
<i>Services provided by the physical layer (Release 1999), 3rd Generation Partnership Project, 3GPP TS 25.302 V3.6.0 (2000–09) (“TS 25.302”).</i>	Oct. 16, 2000	1009

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<sup>4</sup> Petitioner also relies upon the Declarations of R. Michael Buehrer, Ph.D., FIEEE (Exs. 1002, 1019) and Craig Bishop (Exs. 1006, 1018).

<sup>5</sup> Petitioner relies upon the Bishop Declarations to establish the public availability of TS 25.302, TS 25.321, and R2-010182, and their respective publication dates. *See* Pet. 9–10, 12, 15; Pet. Reply 1–16.

References		Effective Date <sup>5</sup>	Exhibit
Peisa	US 6,850,540 B1	Feb. 25, 2000 <sup>6</sup>	1013

*D. Instituted Grounds of Unpatentability*

We instituted review on the following grounds of unpatentability:

Claims Challenged	35 U.S.C. §	Reference(s)/Basis
1–6	103(a)	TS 25.321, TS 25.302, R2-010182
1, 2	103(a)	Peisa
4–6	103(a)	Peisa, TS 25.302

II. ANALYSIS

*A. The '487 Patent*

The '487 patent “relates to a network with a first plurality of logic channels with which is associated a second plurality of transport channels . . . for the transmission of transport blocks formed from packet units of the logic channels.” Ex. 1001, 1:4–8. According to the '487 patent, “[s]uch a network is known from the 3<sup>rd</sup> Generation Partnership Project (3GPP); Technical Specification Group (TSG) RAN; Working Group 2 (WG2); Radio Interface Protocol Architecture; TS 25.302 V3.6.0.” *Id.* at 1:9–12.

The '487 patent describes the 3GPP network architecture disclosed in TS 25.302 V3.6.0 as follows:

A physical layer offers transport channels or transport links to the MAC [Media Access Control] layer. The MAC layer makes logic channels or logic links available to an RLC layer (RLC=Radio Link Control). The packet units formed in the

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<sup>6</sup>Petitioner relies on the U.S. filing date of Peisa to establish its availability as prior art under 35 U.S.C. § 102(e). *See* Pet. 17.



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