

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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VOLKSWAGEN GROUP OF AMERICA, INC.,  
FORD MOTOR COMPANY, GENERAL MOTORS LLC,  
NISSAN NORTH AMERICA, INC., TESLA, INC., and  
AMERICAN HONDA MOTOR CO., INC.,<sup>1</sup>  
Petitioner

v.

NEO WIRELESS, LLC,  
Patent Owner

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Case IPR2022-01539  
U.S. Patent No. 10,965,512

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**DECLARATION OF DR. PAUL MIN IN SUPPORT OF PETITIONER'S  
REPLY**

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<sup>1</sup> Ford Motor Company filed a motion for joinder and a petition in IPR2023-00764, and General Motors LLC, Nissan North America, Inc., Tesla, Inc., and American Honda Motor Co., Inc., filed their own motion for joinder and petition in IPR2023-00961. Both motions were granted, and, therefore, Ford Motor Company, General Motors LLC, Nissan North America, Inc., Tesla, Inc., and American Honda Motor Co., Inc., have been joined as petitioners in this proceeding.

**TABLE OF CONTENTS**

I.	INTRODUCTION .....	1
II.	LEVEL OF ORDINARY SKILL IN THE ART .....	2
III.	LEGAL STANDARDS .....	5
IV.	MR. ALBERTH RELIES ON AN IMPROPERLY NARROW CONSTRUCTION OF CELL-SPECIFIC PILOTS .....	5
A.	The plain and ordinary meaning of cell-specific pilots is pilots that are specific to a cell .....	6
B.	Neo’s proposed construction is improper .....	9
1.	Neo’s construction departs from the plain and ordinary meaning .....	9
2.	Other claims from the ’512 patent family show that Neo’s construction is too narrow .....	11
3.	Neo’s proposed construction is inconsistent with the specification.....	13
4.	Mr. Alberth’s reliance on the ’512 patent’s Background is misplaced.....	14
V.	KIM DISCLOSES CELL-SPECIFIC PILOTS UNDER THE CORRECT CONSTRUCTION AND NEO’S CONSTRUCTION .....	17
A.	Kim discloses cell-specific pilots under the term’s plain and ordinary meaning. ....	17
B.	Kim discloses cell-specific pilots even under Neo’s improperly narrow construction .....	18
1.	Kim’s cell-specific pilots have different values for different cells .....	18
2.	Neo’s reliance on Kim’s Figure 14 is misplaced .....	29
VI.	KIM-TONG TEACHES BEAMFORMING .....	31
A.	Mr. Alberth analyzes Kim in isolation, and ignores the combined system’s channel estimation teachings .....	31
B.	Kim’s pilots are transmitted after a channel has been established .....	35
C.	A POSA would have understood that beamforming provides benefits without knowledge of channel conditions .....	39
VII.	KETCHUM’S BEACON PILOTS ARE CELL-SPECIFIC PILOTS .....	42

VIII. A POSA WOULD HAVE FOUND IT OBVIOUS TO IMPLEMENT LI'S  
CELL-SPECIFIC PILOTS IN KETCHUM .....50

IX. KETCHUM TRANSMITS THE FIRST AND SECOND PLURALITY OF  
SUBCARRIERS IN AT LEAST ONE OF THE TIME SLOTS .....52

X. DEPENDENT CLAIMS .....57

XI. CONCLUSION .....59

**PETITIONER'S UPDATED EXHIBIT LIST**

<b>Exhibit No.</b>	<b>Description</b>
<b>1001</b>	U.S. Patent No. 10,965,512 to Li <i>et al.</i> (“’512 patent”)
<b>1002</b>	’512 Patent Prosecution History
<b>1003</b>	Declaration of Dr. Paul Min
<b>1004</b>	International Patent Publication No. WO2004/049618 to Kim <i>et al.</i> (“Kim”)
<b>1005</b>	U.S. Patent No. 7,120,395 to Tong <i>et al.</i> (“Tong”)
<b>1006</b>	U.S. Patent Application Pub. No. 2004/0179627 to Ketchum <i>et al.</i> (“Ketchum”)
<b>1007</b>	U.S. Patent Application Pub. No. 2002/0163879 to Li <i>et al.</i> (“Li”)
<b>1008</b>	U.S. Patent No. 7,248,559 to Ma <i>et al.</i> (“Ma ’559”)
<b>1009</b>	Tufvesson, <i>et al.</i> , <i>Pilot Assisted Channel Estimation For OFDM in Mobile Cellular Systems</i> , IEEE 47th Vehicular Technology Conference (1997)
<b>1010</b>	U.S. Patent No. 7,826,471 to Wilson <i>et al.</i> (“Wilson”)
<b>1011</b>	U.S. Patent No. 7,664,533 to Logothetis <i>et al.</i> (“Logothetis”)
<b>1012</b>	U.S. Patent No. 7,054,664 to Nagaraj (“Nagaraj”)
<b>1013</b>	International Patent Application No. WO 2004/056022 to Lee <i>et al.</i> (“Lee”)
<b>1014</b>	U.S. Patent No. 7,551,546 to Ma (“Ma ’546”)
<b>1015</b>	Anderson, <i>Fixed Broadband Wireless System Design</i> , Wiley (2003) (excerpts)
<b>1016</b>	U.S. Patent No. 7,852,746 to Jalali (“Jalali”).
<b>1017</b>	U.S. Patent Application Pub. No. 2004/0131007 to Smeed <i>et al.</i> (“Smeed”)
<b>1018</b>	U.S. Patent No. 7,650,152 to Li <i>et al.</i> (“Li ’152”).
<b>1019</b>	U.S. Patent Application Pub. No. 2004/0190598 to Seki <i>et al.</i> (“Seki”).

Exhibit No.	Description
1020	Li, “A Novel Broadband Wireless OFDMA Scheme for Downlink in Cellular Communications,” Samsung Advanced Institute of Technology (IEEE) (2003) (“Li-Samsung”)
1021	Hara <i>et al.</i> , “Multicarrier Techniques for 4G Mobile Communications,” Artech House (2003) (excerpts) (“Hara”)
1022	U.S. Patent Application Pub. No. 2004/0228270 to Chen <i>et al.</i> (“Chen”)
1023	Van Nee <i>et al.</i> , “OFDM for Wireless Multimedia Communications,” Artech House (2000) (“Van Nee”) (excerpts)
1024	Bahai <i>et al.</i> , “Multi-Carrier Communications Theory and Applications of OFDM,” Springer Science (2004) (excerpts) (“Bahai”)
1025	U.S. Patent No. 7,039,001 to Krishnan <i>et al.</i> (Krishnan”)
1026	U.S. Patent No. 6,992,621 to Casas <i>et al.</i> (“Casas”)
1027	U.S. Patent No. 5,596,329 to Searle <i>et al.</i> (“Searle”)
1028	U.S. Patent Application Pub. No. 2005/0075125 to Bada <i>et al.</i> (“Bada”).
1029	<i>Curriculum Vitae</i> of Dr. Paul Min
1030	U.S. Provisional Patent Application No. 60/421,309 to Walton <i>et al.</i> (“’309 Provisional”)
1031	U.S. Patent No. 7,012,882 to Wang <i>et al.</i> (“Wang”)
1032	Transfer Order, <i>In re: Neo Wireless, LLC, Patent Litigation</i> , Case MDL No. 3034, issued June 14, 2022 (ECF No. 50)
1033	Docket Sheet, <i>Neo Wireless, LLC v. Volkswagen Group of America, Inc.</i> , Case No. 2:22-cv-11404 (E.D. Mich.)
1034	United States District Courts – National Judicial Caseload Profile, June 2022
1035	U.S. Patent No. 8,934,473 to Li <i>et al.</i>
1036	U.S. Patent No. 8,432,891 to Li <i>et al.</i>
1037	U.S. Patent No. 11,388,034 to Li <i>et al.</i>

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