# UNITED STATES PATENT AND TRADEMARK OFFICE ————— BEFORE THE PATENT TRIAL AND APPEAL BOARD —————

# BAYERISCHE MOTOREN WERKE AKTIENGESELLSCHAFT & BMW OF NORTH AMERICA, LLC,

Petitioners

V.

### PAICE LLC & THE ABELL FOUNDATION, INC.

Patent Owners

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Inter Partes Review No.: IPR2020-01386

U.S. Patent No. 7,237,634 K2

PETITIONERS' RESPONSE IDENTIFYING ISSUES RAISED IN THE PATENT OWNER RESPONSE OR THE INSTITUTION DECISION TO WHICH THE EVIDENCE AND/OR ARGUMENTS IDENTIFIED BY PATENT OWNERS RESPONDS



### **I. Graf (Grounds 3, 4-9)**

Section IV of BMW's Reply, Ex. 1090, and Dr. Davis's reply declaration (BMW1088) at ¶¶99-103 directly rebut and respond to PO's arguments that: (i) Graf "merely discloses a block (2) that calculates the 'driving style of the driver" as "a choice between 'emissions' or 'performance;'" (ii) Graf's disclosure is a "black box" with "no evidence that Graf 'monitors[s] a driver's repeated driving operations over time;'" (iii) "[t]he examples provided in Graf speak to whether someone prefers a sports car to an economy car; (iv) "rather than provide a mechanism to monitor these preferences, Graf simply assumes that the driver has expressed a choice;" and (v) "[n]one of Graf's disclosures suggest that there is any pattern at issue, or that it is being monitored." POR at 52-54 & n.22. They also directly respond to the issue raised in the ID of whether Graf's "characterizing the driver style of the driver" requires "monitoring a driver's repeated driving operations over time." ID at 46.

Dr. Davis originally opined what a POSA would understand about Graf—citing to Graf's disclosure that incorporates Exhibit 1090. *See* Ex. 1008 at ¶201, 301 (citing BMW1020, 5:36-42). BMW's Petition relied on this portion of Graf and its reference to Ex. 1090 as well. *See* Pet. at 30-32 (citing BMW1020, 5:36-42). The inclusion of Exhibit 1090 and related arguments and opinions in reply are in direct rebuttal to the POR arguments listed in (i) through (v) above and in direct response to the issues raised in the ID indicated above.



Petitioners' Response re Identification of Responsive Evidence, IPR2020-01386 U.S. Patent 7,237,634

## II. Severinsky (Grounds 1-9)

PO did not previously object with any specificity or request the Board's permission to file a motion to strike on these Grounds, arguments, or evidence.

Pages 10-11 of BMW's Reply and Dr. Davis's reply declaration (BMW1088) at ¶¶8-26 directly rebut and respond to (i) the POR argument that Severinsky's hysteresis is only speed-based while the "setpoint" claimed in the '634 Patent is "a torque value;" and (ii) the POR's acknowledgement of a "physical relationship between speed and torque," but argument that it "does not bridge the chasm between Severinsky's separate speed and torque-based algorithms." POR at 18-23.

BMW's reply argument and evidence (i) confirms PO's admission of a "physical relationship between torque and speed" because "Severinsky's so-called 'speed-based hysteresis' must take torque into account," and (ii) responds that while "[o]ther, secondary parameters can also be taken into account, [] the road load request of the operator is paramount," with various examples of that concept being known in the art, including from Exhibits 1015, 1091, and 1092. *E.g.*, Ex. 1088, ¶¶12-13, et seq.; Reply at 10-11.

Regarding PO's complaints about Exhibits 1015 and 1092, Exhibit 1015 is Bumby II, which has been part of the record since the Petition. Exhibit 1092 contains omitted excerpts from a 2005 textbook that PO submitted with its POR as Exhibit 2020, which undercut PO's and Shahbakhti's reliance on Exhibit 2020.



### Petitioners' Response re Identification of Responsive Evidence, IPR2020-01386 U.S. Patent 7,237,634

### Respectfully submitted,

/Vincent J. Galluzzo/

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**Certificate of Service** 

Pursuant to 37 C.F.R. § 42.6(e)(4), I certify that the foregoing Petitioners'

PETITIONERS' RESPONSE IDENTIFYING ISSUES RAISED IN THE PATENT

OWNER RESPONSE OR THE INSTITUTION DECISION TO WHICH THE

EVIDENCE AND/OR ARGUMENTS IDENTIFIED BY PATENT OWNERS

RESPONDS was served on August 24, 2021 via electronic mail on the following

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