EXHIBIT P



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Obviousness of U.S. Patent No. 8,630,761 Claims 1-12 over Severinsky '970 in View of One or More Sec

To the extent Severinsky '970 does not disclose any particular limitation below, or aspects thereof, expressly or limitation(s) would have been known to a person of skill in the art and/or it would have been obvious to combine with one or more of the prior art references identified and cited herein, including Adler, Drozdz, Farrall, Frank, I Hosaka '083, Hosaka '697, Moroto, Nii, Onari, Probst, and Quigley.

U.S. Patent No. 8,630,761	Severinsky '970¹ + One or More of Secondary Refer
1[pre]. A method of operation of a hybrid vehicle, comprising steps of:	Severinsky '970 discloses a "Hybrid Electric Vehicle" and a "An imelectric vehicle includes an internal combustion engine and an electric Severinsky '970 at Abstract. <i>See also</i> 1:6-14; 5:25-37; 7:45-46; 9:37
	Figure 3 illustrates the "schematic diagram of the principal compone hybrid vehicle drive system." Severinsky '970 at 7:45-46. Severinsky '970 at Fig. 3:

² U.S. Patent No. 5,533,583 ("Adler"); U.S. Patent No. 5,898,282 ("Drozdz"); U.S. Patent No. 5,656,921 ("Farra 6,116,363 ("Frank"); U.S. Patent No. 5,788,004 ("Friedmann"); U.S. Patent No. 6,188,945 ("Graf"); U.S. Patent ("Hosaka '083"); U.S. Patent No. 4,625,697 ("Hosaka '697"); U.S. Patent No. 5,697,466 ("Moroto"); U.S. Patent ("Nii"); U.S. Patent No. 5,189,621 ("Onari"); UK Patent Application No. GB 2,318,105 ("Probst"); C.P. Quigley *Use of a Hybrid Electric Vehicle*, IFAC Workshop on Intelligent Components for Autonomous and Semi-Auton (1996) 129-134 ("Quigley")



¹ U.S. Patent No. 5,343,970 ("Severinsky '970")

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	Hybrid Vehicle Hybrid Vehicle THOTHE ENGRE CLUTCH TOOLER CONNECLER CONNECTED ACTOR CONNECTED
	Figures 4-9 refer to "schematic diagrams of the hybrid drive systems invention operating in different modes and showing flow of energy, electrical energy or fossil fuel, and of power, as torque from either the internal combustion engine." Severinsky '970 at 7:47-52; see als
	"Like claim 23, Severinsky ['970] discloses the essential component vehicle, including an internal combustion engine, an electric motor, a battery, and a microprocessor for controlling the vehicle's mode of o electric mode, an engine-only mode, or a hybrid mode." IPR2014-00 Decision, page 14.
[a] storing and supplying electrical power from a battery bank,	Severinsky '970 discloses a "battery 22." Severinsky '970 at 9:65-66 discloses that "battery 22 is charged by power generated by the motor as a generator, that is, when driven by the engine 40 by way of the contransfer unit 28, or in a regenerative braking mode." Severinsky '970 Severinsky also discloses that the electric motor 20 will be "powered a relatively large, high voltage battery pack 22." BMW 1013 at 10:53



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	Further, the '761 Patent itself acknowledges that Severinsky '970 dis "electric motor powered by electrical energy stored in a substantial b the vehicle." '761 Patent at 24:23-40.
[b] applying torque to road wheels of said hybrid vehicle from one or both of an internal combustion engine and at least one traction motor, and	Severinsky '970 discloses an "engine 40" and relates to a hybrid veh the "relative power outputs of the internal combustion engine and the such that the engine is operated only within its most efficient operati Severinsky '970 at 9:40-46. Severinsky '970 is able to restrict opera its most efficient range by sizing the "internal combustion engine of to supply adequate power for highway cruising, preferably with some reverse, so that the internal combustion engine operates only in its moperating range." Severinsky '970 at 9:47-52.
	With reference to Figure 3, Severinsky '970 explains that "both the emotor 20 provide torque to the drive wheels 34 by way of the control unit 28. Severinsky '970 at 10:24-26; Fig. 3.
	Severinsky '970 also discloses "the internal combustion engine is op most efficient conditions of output power and speed." Severinsky '9 Severinsky '970 further recognizes that these conditions of "output p are met when the "internal combustion engine is run only in the near efficient operational point, that is, such that it produces 60-90% of it whenever operated." Severinsky '970 at 20:63-66, 7:8-16.
	Severinsky '970 discloses an "electric motor 20." Severinsky '970 a Severinsky '970 also discloses that the "electric motor 20" is capable "output torque from motor 20 [] transmitted by way of torque transfe conventional differential 32 to the vehicle drive wheels 34." Severin 57, Abstract, 10:52-11:6.
	The '761 patent itself states that "an important aspect of the invention '970 patent, substantially improved efficiency is afforded by operating the state of the invention of t



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	combustion engine only at relatively high torque output levels, typical preferably at least 50% of peak torque. When the vehicle operating control torque of this approximate magnitude, the engine is used to propel that torque is required, an electric motor powered by electrical energy sto battery bank drives the vehicle; when more power is required than prending or the motor, both are operated simultaneously." '761 patent and the present the present the motor of the motor.
[c] controlling flow of torque between said internal combustion engine, said at least one traction motor, and said road wheels, and	Severinsky '970 discloses that the "torque transfer unit 28 receives to and/or from alternating current electric motor 20 and transmits this to wheels 34 of the vehicle by way of a conventional differential 32." S 9:61-65.
	With reference to Figure 3, Severinsky '970 discloses that "micropro the flow of torque between the motor 20, the engine 40, and the whee the mode of operation of the vehicle. For example, when the vehicle highway, all torque is preferably supplied from the engine 40. Howe starts down a hill, and the operator lifts his foot from the accelerator energy of the vehicle and the engine's excess torque may be used to a generator so as to charge the batteries. If the vehicle then starts to c motor 20 is used to supplement the output torque of engine 40. Simil can be used to start the engine 40, e.g., when accelerating in traffic o various modes of operation of the system will be described below in FIGS. 4-9, after which further details of the various elements of the s Severinsky '970 at 10:28-43.
	Severinsky '970 discloses a "microprocessor controller 48" that cont directional flow of power between the battery 22 and the motor 20." 9:58-10:23. The "microprocessor controller 48" also controls the tor engine and "electric motor 20" to the road wheels using the "controll unit 28." Severinsky '970 at 12:64-13:2, 22:19-28.



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