



(51) International Patent Classification:

B60W 30/18 (2006.01) **B60W 10/06** (2006.01)
B60W 20/00 (2006.01) **B60W 10/08** (2006.01)
B60K 6/547 (2007.10) **F16H 59/46** (2006.01)
B60K 6/48 (2007.10) **F16H 63/42** (2006.01)
B60W 50/08 (2006.01) **B60W 10/02** (2006.01)
B60W 10/10 (2006.01) **B60K 17/28** (2006.01)

(21) International Application Number:

PCT/US2009/038938

(22) International Filing Date:

31 March 2009 (31.03.2009)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

12/060,368 1 April 2008 (01.04.2008) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

- with international search report (Art. 21(3))

(54) Title: VEHICULAR SWITCHING WHILE IN ELECTRIC TRACTION MODE

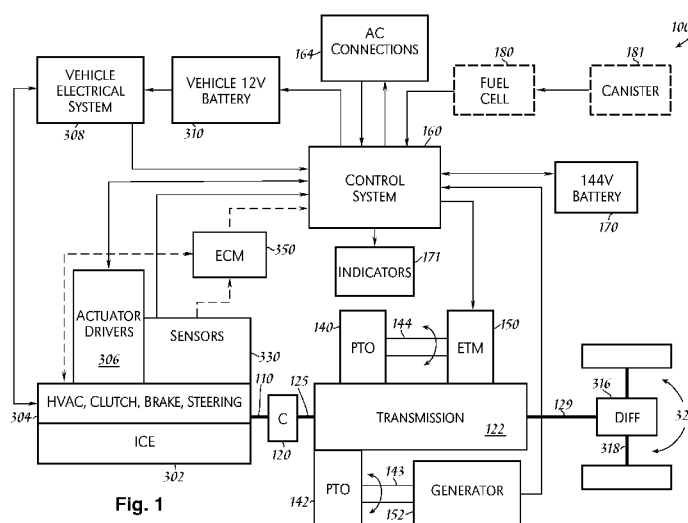


Fig. 1

(57) Abstract: A vehicle has an internal combustion engine (ICE) and a electric traction motor (ETM) coupled by a standard transmission through a differential to drive traction wheels. A control system receives sensor signals including speed sensors, a load sensor, and an incline sensors. The control system processes the speed signals to generate indicator signals corresponding to speed of the ETM, the vehicle speed, the shifting gears and the speed of the transmission output shaft. One or more displays present indications of when the speed of a shifting gear corresponding to the speed of the ETM matches the speed of the vehicle thus the speed of the transmission output shaft. An operator may shift, without clutching, from neutral and to a next shifting gear when there is an indication that the speed of the next shifting gear matches the speed of a shifting collar coupled to the transmission output shaft.