



(43) International Publication Date
3 June 2011 (03.06.2011)

(10) International Publication Number
WO 2011/065888 A1

(51) International Patent Classification:

H02K 7/116 (2006.01) *F16H 37/08* (2006.01)
B60K 17/04 (2006.01) *F16H 48/06* (2006.01)
F16H 3/44 (2006.01) *F16H 57/02* (2006.01)

(21) International Application Number:

PCT/SE2010/051109

(22) International Filing Date:

14 October 2010 (14.10.2010)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0950890-4 24 November 2009 (24.11.2009) SE

(71) Applicant (for all designated States except US): **BAE SYSTEMS HÄGGLUNDS AKTIEBOLAG** [SE/SE]; S-891 82 Örnköldsvik (SE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KARLSSON, Pontus** [SE/SE]; Nygatan 42, 3 tr., S-891 34 Örnköldsvik (SE). **KJELLMAN, Henrik** [SE/SE]; Herrgårdsvägen 7,

S-194 78 Upplands Väsby (SE). **LASSILA, Viktor** [SE/SE]; Faresta 193, S-891 95 Arnäsval (SE).

(74) Agent: **ALBIHNS.ZACCO AB**; Valhallavägen 117, P.O. Box 5581, S-114 85 Stockholm (SE).

(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, CL, 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, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, 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, RS, SE, SI, SK,

[Continued on next page]

(54) Title: ELECTRIC DRIVE SYSTEM

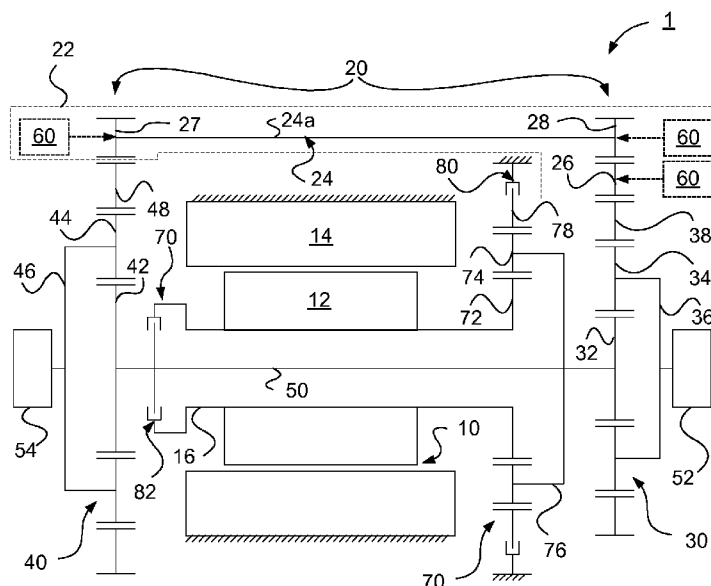


Fig. 2

(57) Abstract: The present invention relates to an electric drive system comprising an electric motor (10) arranged to rotate a drive shaft (16); a drive planetary gear configuration (70) being in driving engagement with said drive shaft (16) and an output shaft (50) rotatable relative to said drive shaft (16); and means for providing change in rotational speed of said output shaft (50), wherein said rotational speed changing means (80, 82) are disposed on opposite sides of the motor (10) respectively. The present invention also relates to a motor driven unit, for example a motor vehicle.

WO 2011/065888 A1



SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, **Published:**
GW, ML, MR, NE, SN, TD, TG).

— *with international search report (Art. 21(3))*