



(51) International Patent Classification:

F16H 3/72 (2006.01) F02C 9/00 (2006.01)
H02P 1/16 (2006.01)

(21) International Application Number:

PCT/EP2021/025319

(22) International Filing Date:

25 August 2021 (25.08.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

102020000020593 28 August 2020 (28.08.2020) IT

(71) Applicant: NUOVO PIGNONE TECNOLOGIE -
S.R.L. [IT/IT]; Via Felice Matteucci 2, 50127 Florence (IT).

(72) Inventor: MARAGIOGLIO, Gaspare; Via Felice Mat-
teucci 2, 50127 Florence (IT).

(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, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO,

DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN,
KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD,
ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO,
NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW,
SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, 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, RW, SD, SL, ST, SZ, TZ,
UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, 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, SM,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
KM, 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))

(54) Title: DRIVE ARRANGEMENT FOR A MECHANICAL DRIVEN EQUIPMENT

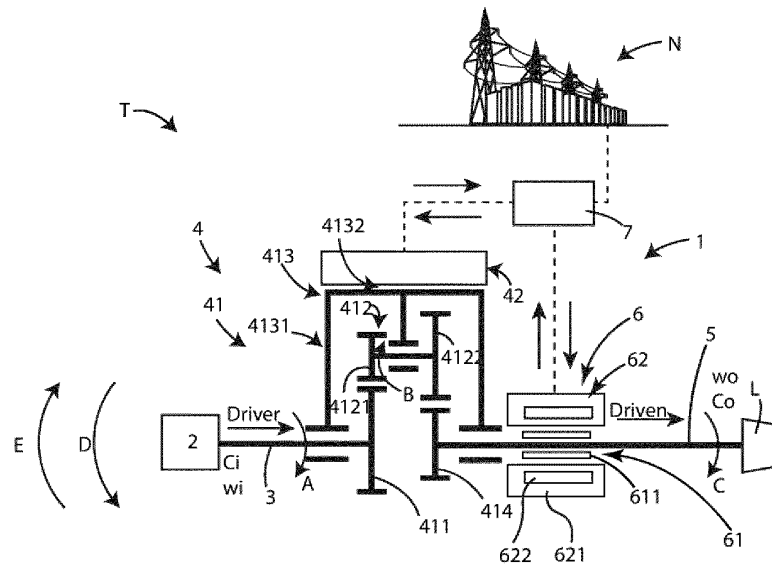


Fig. 1

(57) Abstract: A hybrid gearbox for a mechanical driven equipment in a train system is disclosed. The hybrid gearbox is connected between a power source and a load, to be driven. The hybrid gearbox includes a layshaft gear, capable of adjusting the transmission ratio between the power source and the load and a motor-generator unit, configured to adjust the transmission speed ratio arranged.

Published:

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