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- (81) 指定国(除另有指明, 要求每一种可提供的国家保护): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, 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, UY, UZ, VC, VN, WS, ZA, ZM, ZW。
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(54) Title: ELECTRIC DRIVE ASSEMBLY AND VEHICLE

(54) 发明名称: 一种电驱总成及车辆

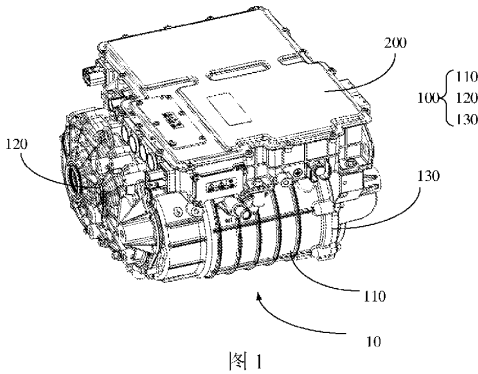


图 1

(57) Abstract: An electric drive assembly (10), relating to the field of new energy vehicles. The electric drive assembly (10) comprises a motor assembly (100), an electric control assembly (200), and a cooling component (300). The electric control assembly (200) is arranged beside the motor assembly (100), the cooling component (300) being arranged between the electric control assembly (200) and the motor assembly (100). The motor assembly (100) comprises a housing (110), a speed reducer (120), and a driving motor (130). The housing (110) is arranged around the outer side of the driving motor (130) and has a first housing part (113) and a second housing part (114), an accommodating cavity (115) being formed between the first housing part (113) and the second housing part (114). The speed reducer (120) is arranged on the outer side of the housing (110). The cooling component (300) comprises a first cooling unit (310) and a second cooling unit (320), the first cooling unit (310) being arranged between the electric control assembly (200) and the motor assembly (100), and the second cooling unit (320) being arranged inside the accommodating cavity (115). The first cooling unit (310) and the second cooling unit (320) are both provided with cooling channels that are in communication with each other, a cooling medium flowing in the cooling channels so as to cool the electric drive assembly (10).

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(AM, AZ, BY, KG, KZ, RU, TJ, TM), 欧洲 (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, ME, 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)。

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— 包括国际检索报告(条约第21条(3))。

Further provided is a vehicle. In the electric drive assembly and the vehicle, routes of cooling water channels are shortened, thereby improving cooling efficiency.

(57) 摘要: 一种电驱总成(10), 涉及新能源汽车领域, 电驱总成(10)包括电机总成(100)、电控总成(200)及冷却组件(300); 电控总成(200)设置于电机总成(100)的侧方, 冷却组件(300)设置在电控总成(200)与电机总成(100)之间; 电机总成(100)包括壳体(110)、减速器(120)和驱动电机(130), 壳体(110)围设于驱动电机(130)的外侧, 具有第一壳体部(113)和第二壳体部(114), 第一壳体部(113)和第二壳体部(114)之间形成容纳腔(115), 减速器(120)设置于壳体(110)外侧; 冷却组件(300)包括第一冷却单元(310)和第二冷却单元(320), 第一冷却单元(310)设置于电控总成(200)和电机总成(100)之间, 第二冷却单元(320)设置于容纳腔(115)内部, 第一冷却单元(310)与第二冷却单元(320)分别具有依次连通的冷却通道, 且冷却通道内均流通有冷却介质, 以对电驱总成(10)进行冷却。还提供了一种车辆。该电驱总成及车辆, 缩短了冷却水道的路径, 提高了冷却效率。