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- (71) 申请人: 广东威灵电机制造有限公司 (GUANGDONG WELLING MOTOR MANUFACTURING CO., LTD.) [CN/CN]; 中国广东省佛山市顺德区北滘镇工业园兴业路 27 号, Guangdong 528311 (CN)。
- (72) 发明人: 樊学敏 (FAN, Xuemin); 中国广东省佛山市顺德区北滘镇工业园兴业路 27 号, Guangdong 528311 (CN)。 朱婷婷 (ZHU, Tingting); 中国广东省佛山市顺德区北滘镇工业园兴业路 27 号, Guang-

dong 528311 (CN)。 张守军 (ZHANG, Shoujun); 中国广东省佛山市顺德区北滘镇工业园兴业路 27 号, Guangdong 528311 (CN)。

(74) 代理人: 深圳中一专利商标事务所 (SHENZHEN ZHONGYI PATENT AND TRADEMARK OFFICE); 中国广东省深圳市福田区深南中路 1014 号老特区报社四楼 (5 号信箱), Guangdong 518028 (CN)。

(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, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, 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, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW。

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(54) Title: STATOR IRON CORE AND STATOR, MOTOR

(54) 发明名称: 定子铁芯及定子、电机

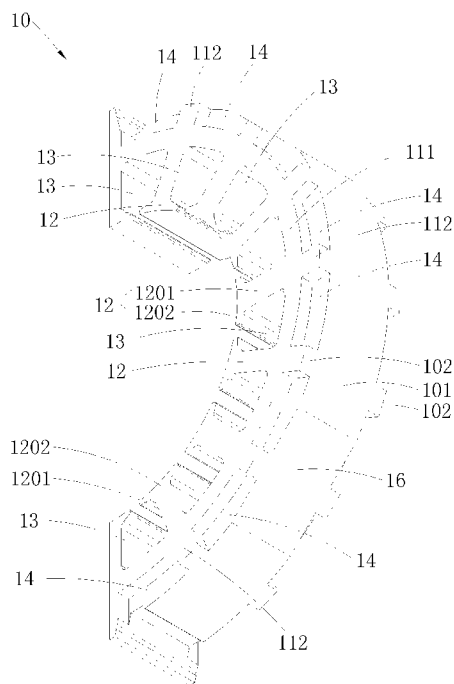


图 2 / Fig.2

(57) Abstract: A stator iron core (1) and stator, motor, related to the field of motor, the stator iron core comprising: a stator yoke (11) and several stator teeth (12) disposed on the stator yoke. A bottom slot (13) is formed between any two neighboring stator teeth, the stator yoke has two axial ends disposed in opposite directions, top slots (14) in a same quantity as the bottom slots are disposed on at least one of the two axial ends, each top slot is disposed to be paired up with a respective bottom slot, the stator yoke has a radial spacer portion (111) spaced and disposed between the top slot and the bottom slot and a circumferential spacer portion (112) spaced and disposed between two neighboring top slots. Disposing the top slot opposite to the bottom slot recessed on at least one end portion in the axial direction of the stator yoke effectively shortens the winding path of the stator winding set on the stator yoke, thus reducing the amount of enamel wire and the consumption of the stator winding set, further increasing motor efficiency.

(57) 摘要:

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(84) **指定国** (除另有指明, 要求每一种可提供的地区保护): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), 欧亚 (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, 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)。

本国际公布:

— 包括国际检索报告(条约第 21 条(3))。

一种定子铁芯(1)及定子、电机,属于电机领域,其中,定子铁芯包括定子轭(11)和若干个设于定子轭上的定子齿(12),任意两相邻定子齿之间都形成一个落线槽(13),定子轭具有两个反向设置的轴向端部,至少一个轴向端部上还凹设有数量与落线槽数量相等的过线槽(14),且各过线槽与各落线槽分别两两相对设置,定子轭具有隔设于相对的过线槽与落线槽之间的径向隔设部(111)和隔设于相邻两过线槽之间的周向隔设部(112),通过在定子轭的至少一个轴向端部凹设与落线槽相对的过线槽,有效缩短了定子绕组在定子轭上的绕线路径,从而减少了漆包线的用量和定子绕组的损耗,进而提升了电机的效率。