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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, UZ, VC, VN, WS, ZA, ZM, ZW。
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(54) Title: SEALING GUIDE PIPE CONNECTOR MADE OF RESIN

(54) 发明名称: 一种树脂制密封导管接头

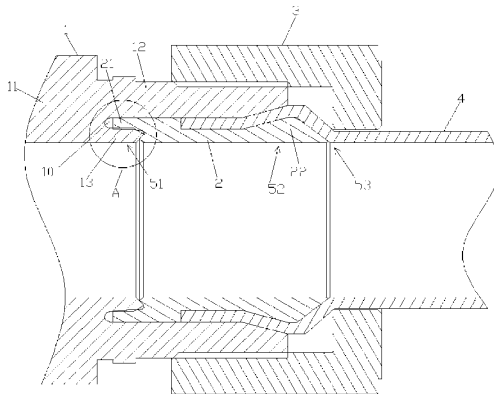


图 2

(57) Abstract: Disclosed is a sealing guide pipe connector made of resin, the sealing guide pipe connector comprising a connector body (1), an inner ring (2) and a nut (3), wherein the inner ring (2) is provided with an insertion head portion (21); the connector body (1) is provided with an insertion slot portion (10); the insertion head portion (21) is inserted into the insertion slot portion (10) to form a sealed connection; the nut (3) is connected to the connector body (1) so as to maintain the inserted state between the insertion head portion (21) and the insertion slot portion (10); and the nut (3) presses against the inner ring (2). In a free state, the thickness of the insertion head portion (21) linearly varies in the axial direction of the inner ring (2), and in the inserted state, the insertion slot portion (10) elastically deforms, and the thickness variation rate of the insertion slot portion (10) is less than that of the insertion head portion (21) in the free state; therefore, the sealing effect between the insertion head portion (21) and the insertion slot portion (10) is ensured, and the frictional resistance that has to be overcome when the insertion head portion (21) fits with the insertion slot portion (10) is also reduced; moreover, the sealing reliability and durability are ensured.

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NA, RW, SC, 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, 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)。

本国际公布：
— 包括国际检索报告(条约第21条(3))。

(57) 摘要: 公开了一种树脂制密封导管接头，包括接头主体（1），内环（2），螺帽（3）；内环（2）形成有插头部（21），接头主体（1）形成有插槽部（10），插头部（21）插接在插槽部（10）内以形成密封连接，螺帽（3）和接头主体（1）连接以保持插头部（21）和插槽部（10）的插接状态，螺帽（3）对内环（2）呈压紧状态；自由状态时，插头部（21）厚度沿内环（2）轴向线性变径，插接状态时，插槽部（10）发生弹性形变，插槽部（10）变径率小于插头部（21）自由状态下的变径率，不仅保证了插头部（21）和插槽部（10）间的密封效果，还减小了插头部（21）和插槽部（10）结合时所需克服的摩擦阻力，同时保证密封的可靠性和持久性。