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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, 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。

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(54) Title: FLUID CONNECTOR AND ENERGY STORAGE AND HEAT DISSIPATION SYSTEM

(54) 发明名称: 一种流体连接器及储能散热系统

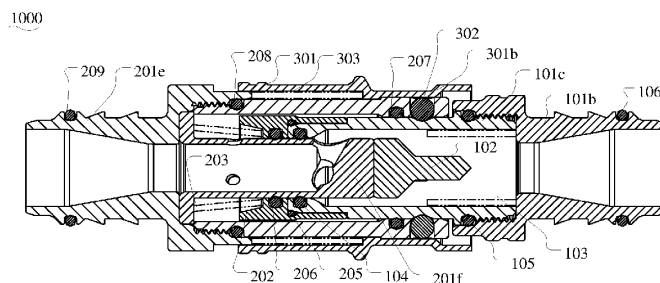


图 5

(57) Abstract: Disclosed are a fluid connector and an energy storage and heat dissipation system. The fluid connector (1000) is formed by means of injection-molding engineering plastic and comprises a male end connector (100) and a female end connector (200). The male end connector comprises a male end main body (101) and a valve head assembly, and the valve head assembly blocks the male end main body. The female end connector comprises a female end main body (201) and a valve core assembly, and the valve core assembly blocks the female end main body. The male end main body is insertedly connected to the female end main body, and when the male end body and the female end body are inserted in place, the valve head assembly and the valve core assembly are both opened, so as to place the male end connector and the female end connector in communication. When the male end main body and the female end main body need to be separated, the valve head assembly blocks the male end main body, and the valve core assembly blocks the female end main body, such that liquid in a pipe to be connected connecting the male end main body and the female end main body is prevented from flowing out. The fluid connector is low in cost, surface reprocessing is not needed, batch production can be achieved, and production efficiency is high.

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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, 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：公开了一种流体连接器及储能散热系统，流体连接器（1000）通过工程塑料注塑成型并包括公端接头（100）和母端接头（200）；公端接头包括公端主体（101）和阀头组件，阀头组件封堵公端主体；母端接头包括母端主体（201）和阀芯组件，阀芯组件封堵母端主体；公端主体与母端主体插接连接，且当两者插接到位时，阀头组件及阀芯组件均打开，以连通公端接头和母端接头；当需要分离公端主体和母端主体时，阀头组件封堵公端主体，阀芯组件封堵母端主体，避免了连接公端主体及母端主体的待连接管内液体流出。该流体连接器的成本低、无需表面再处理，可以批量化生产，生产效率高。