



(51) International Patent Classification:
A61M 5/142 (2006.01)

(21) International Application Number:
PCT/GB2012/000898

(22) International Filing Date:
12 December 2012 (12.12.2012)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
1200297.8 7 January 2012 (07.01.2012) GB

(71) Applicant: **SMITHS MEDICAL INTERNATIONAL LIMITED** [GB/GB]; 1500 Eureka Park, Lower Pemberton, Ashford, Kent TN25 4BF (GB).

(72) Inventors: **WELSCH, Michael**; 1265 Grey Fox Road, St. Paul, MN 55112 (US). **ZALESKY, Larry, R.**; 10229 105th Avenue, Milaca, MN 56353 (US).

(74) Agent: **FLINT, JONATHAN MCNEILL**; Smiths Medical, 6 Millfield House, Croxley Business Park, Watford, WD18 8YX (GB).

(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, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, 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, 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.

(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, 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, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to the identity of the inventor (Rule 4.17(i))
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- of inventorship (Rule 4.17(iv))

[Continued on next page]

(54) Title: ELECTRICAL APPARATUS

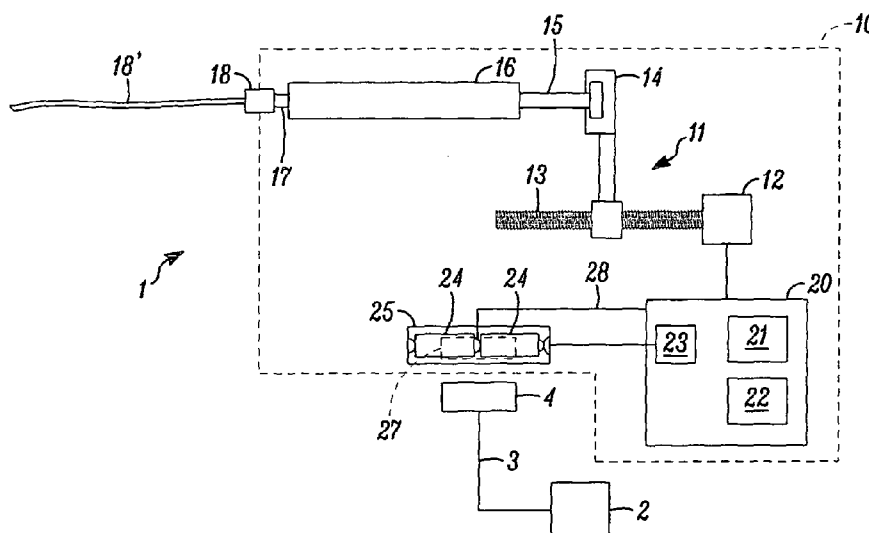


FIG. 1

(57) Abstract: A medical syringe pump has a first processor (21) responsible for controlling infusion and a second processor (22) that functions as a watchdog to monitor operation of the first processor. A data communication connector (27) is located in the pump battery compartment (25) so that the batteries (24) have to be removed before external access can be made using an external connector (4). Removing the batteries (24) disables the infusion function of the first processor and ensures that the pump is prevented from infusing medication. When the external connector (4) is connected the first processor (21) can reprogram the second processor (22) or information about historical operation of the pump can be downloaded.



Published:

- *without international search report and to be republished
upon receipt of that report (Rule 48.2(g))*