



(51) International Patent Classification:
F16L 55/115 (2006.01) *B29C 65/34* (2006.01)
F16L 47/03 (2006.01)

(21) International Application Number: PCT/GB2010/051382

(22) International Filing Date: 20 August 2010 (20.08.2010)

(25) **Filing Language:** English

(26) **Publication Language:** English

(30) Priority Data:
0914579.8 20 August 2009 (20.08.2009) GB

(71) **Applicant** (for all designated States except US): **RA-DIUS SYSTEMS LIMITED** [GB/GB]; PO Box 1, Hilcote Plant, Blackwell, Nr Alfreton, Derbyshire DE55 5JD (GB).

(72) Inventors; and

(75) **Inventors/Applicants** (*for US only*): **MUCKLE, Derek** [GB/GB]; 16 Turvey Lane, Long Whatton, Leicestershire LE12 5DN (GB). **DICKINSON, Alan, John** [GB/GB]; PO Box 1, Hilcote Plant, Blackwell, Nr Alfreton, Derbyshire DE55 5JD (GB).

(74) **Agent: KILLOUGH, Kieran;** Harrison Goddard Foote, Fountain Precinct, Balm Green, Sheffield, South Yorkshire S1 2JA (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, 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, PE, PG, PH, PL, PT, RO, RS, RU, 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, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, 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:

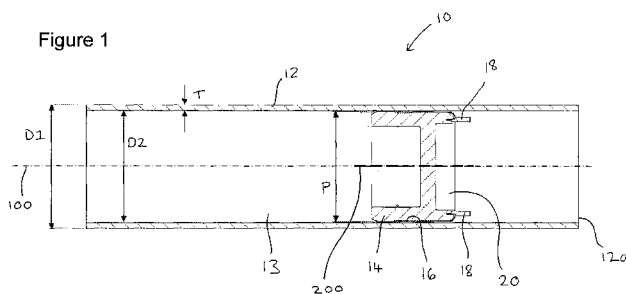
— *of inventorship (Rule 4.17(iv))*

Published:

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

(54) Title: METHOD OF SEALING A PLASTICS PIPE AND APPARATUS THEREFOR

Figure 1



(57) Abstract: A method of sealing a plastics pipe with a plug, wherein said plug includes an electrofusion element around an outer surface thereof, said method comprising the steps of inserting said plug in a bore of the pipe and energising said electrofusion element whilst said pipe and said plug are radially urged against one another to form a seal between said plug and said pipe.