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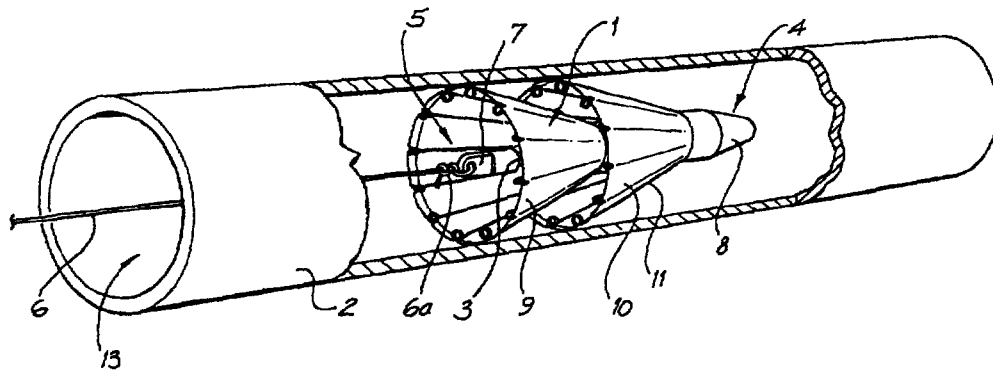
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International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : H02G 1/08, F16L 55/38	A1	(11) International Publication Number: WO 97/42691 (43) International Publication Date: 13 November 1997 (13.11.97)
(21) International Application Number: PCT/AU97/00277 (22) International Filing Date: 6 May 1997 (06.05.97) (30) Priority Data: PN 9713 7 May 1996 (07.05.96) AU (71) Applicant (for all designated States except US): PNEUMATIC SYSTEMS INTERNATIONAL PTY. LTD. [AU/AU]; 1/12 Oxleigh Drive, Malaga, W.A. 6062 (AU). (72) Inventor; and (75) Inventor/Applicant (for US only): CASELLA, David [AU/AU]; 1/12 Oxleigh Drive, Malaga, W.A. 6062 (AU). (74) Agent: HODGKINSON, Hugh, Rudyard; H.R. Hodgkinson & Co., Level 3, 20 Alfred Street, Milsons Point, NSW 2061 (AU).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published With international search report.

(54) Title: SHUTTLE FOR USE IN INSERTION OF A DRAW LINE INTO A CONDUIT



(57) Abstract

An air flow activated shuttle (1) for pulling a draw line (6) through a length of conduit (2) having entry and exit end, said shuttle comprising a shaft (3) having a leading end (4) and a trailing end (5); means (7) on said trailing end which receives and retains a leading end of said draw line; at least one air flow mitigation element (9, 10) attached to said shaft which at least partially interrupts an air flow introduced into the entry end of said conduit from an air source to said shuttle from the trailing end thereby urging said shuttle along said pipe urging said draw line therealong and through said exit.