



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : E04G 23/02	A1	(11) International Publication Number: WO 00/57001 (43) International Publication Date: 28 September 2000 (28.09.00)
(21) International Application Number: PCT/SG99/00019 (22) International Filing Date: 19 March 1999 (19.03.99) (71)(72) Applicant and Inventor: TAN, Kee, Chye, Felix [SG/SG]; Block 414, Tampines Street 41 #08-319, Singapore 520414 (SG). (74) Agent: SPRUSON & FERGUSON PTE LTD; 51 Bras Basah Road, #02-03 Plaza By The Park, Singapore 189554 (SG).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, 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, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>With amended claims and statement.</i>



G00001

(54) Title: CRACK INJECTOR SYSTEM**(57) Abstract**

An apparatus (100) for injecting a fluid substance into a crack is disclosed. The apparatus (100) includes a housing (102) having an internal cavity. At least a portion of the housing (102) is at least partially transparent. The apparatus (100) also includes a substantially plate-like member (124) disposed within the internal cavity of the housing. The periphery of the plate-like member (124) contacts one or more internal surfaces of the housing defining the internal cavity. It also includes means for fluidly communicating the fluid substance between one side of the plate-like member and the crack. Further, the apparatus (100) has means for biasing the plate-like member in a first direction within the housing. The plate-like member and the biasing means are responsive to pressure created by the fluid substance in fluid communication with the crack and the plate-like member. The plate-like member is able to move in an opposite direction when the pressure exerted against the plate-like member exceeds a predetermined minimum pressure. Still further, at least a portion of the plate-like member is visible through the at least partially transparent portion of the housing to indicate the pressure exerted by the fluid substance against the plate-like member.



- *162162*

