



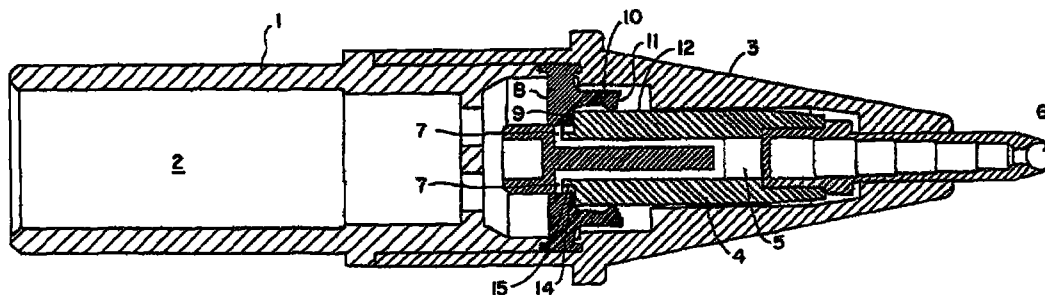
PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : B43K 5/18	A1	(11) International Publication Number: WO 97/02148 (43) International Publication Date: 23 January 1997 (23.01.97)
(21) International Application Number: PCT/US96/10993 (22) International Filing Date: 27 June 1996 (27.06.96) (30) Priority Data: 9513391.4 30 June 1995 (30.06.95) GB (71) Applicant (for all designated States except US): THE GILLETTE COMPANY [US/US]; Prudential Tower Building, Boston, MA 02199 (US). (72) Inventor; and (75) Inventor/Applicant (for US only): NICOLL, Roy [GB/GB]; 52 Reynards Close, Winnersh, Wokingham, Berkshire RG11 5NU (GB). (74) Agents: GALLOWAY, Peter, D.; Ladas & Parry, 26 West 61st Street, New York, NY 10023 (US) et al.		(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, 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, ARIPO patent (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: MARKING INSTRUMENT



(57) Abstract

A marking instrument, especially a reservoir pen, has a diaphragm (8) which is deflected by retraction of the marking tip to open a port (7) to connect a feed channel (5) to the reservoir (2) containing the marking fluid. A cavity (11) communicating with the port (7) has a volume which reduces when the diaphragm deflects to open the valve and increases when the diaphragm moves to close the valve. The diaphragm has an integral forwardly extending skirt (10) which seals against the feed member (4) at the forward end of the skirt. These features are effective in preventing marking liquid flowing to the tip when not required and leakage of marking fluid between the diaphragm and feed member.