

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
30 September 2004 (30.09.2004)

PCT

(10) International Publication Number
WO 2004/082895 A1

(51) International Patent Classification⁷: **B25C 1/08**

(21) International Application Number:
PCT/IB2004/001314

(22) International Filing Date: 19 March 2004 (19.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03/03370 19 March 2003 (19.03.2003) FR

(71) Applicant (for all designated States except US): **SOCIETE DE PROSPECTION ET D'INVENTIONS TECHNIQUES (SPIT)** [FR/FR]; Route de Lyon, F-26501 Bourg les Valence (FR).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **TOULOUSE, Bruno** [FR/FR]; 12, rue Prompsault, F-26000 Valence (FR).

(74) Agent: **BLOCH, Gérard**; Bloch & Associés, 2, square de l'Avenue du Bois, F-75116 Paris (FR).

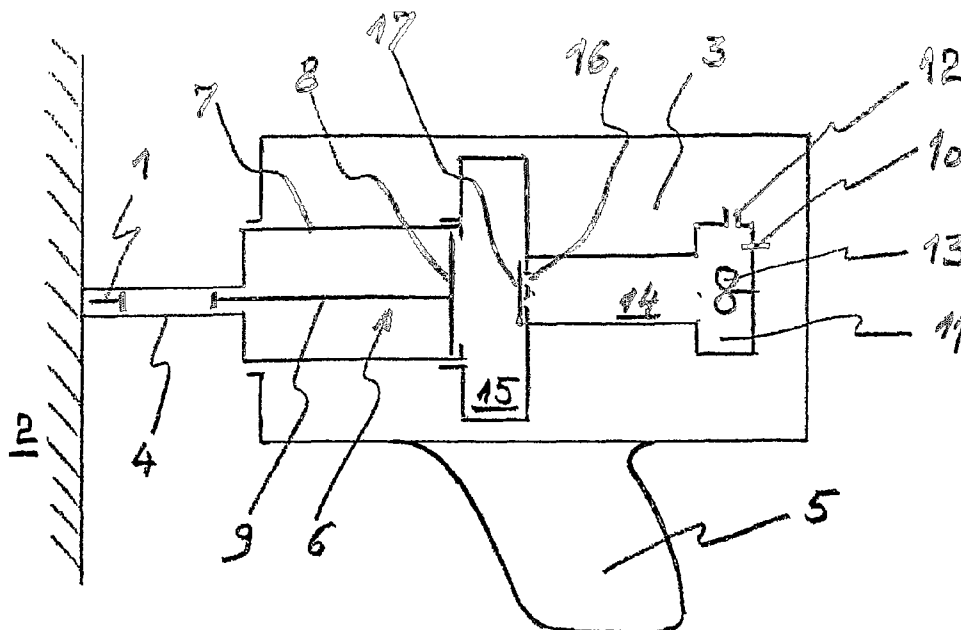
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

[Continued on next page]

(54) Title: GAS-OPERATED APPARATUSES WITH PRECOMPRESSION CHAMBER AND PROPULSION CHAMBER



(57) Abstract: The apparatus comprises: a first chamber for the precompression of a combustible gas and generation of a flame (11), a second propulsion chamber (15), and means (16) for placing the two chambers in communication, these means being designed to allow the flame to pass. There is an intermediate third chamber (14) for the compression and acceleration of the flame, connecting the first and second chambers (11, 15). The invention is neatly applicable to sealing apparatuses with a propulsion piston.

WO 2004/082895 A1



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.