

(12) SOLICITUD INTERNACIONAL PUBLICADA EN VIRTUD DEL TRATADO DE COOPERACIÓN
EN MATERIA DE PATENTES (PCT)

(19) Organización Mundial de la Propiedad
Intelectual
Oficina internacional



(43) Fecha de publicación internacional
2 de Diciembre de 2004 (02.12.2004)

PCT

(10) Número de Publicación Internacional
WO 2004/103571 A1

(51) Clasificación Internacional de Patentes⁷: **B05B 1/32**

(74) Mandatario: **ESTEBAN PEREZ-SERRANO, M^a, Isabel**; Explanada 8, 28040 MADRID (ES).

(21) Número de la solicitud internacional:

PCT/ES2003/000237

(81) Estados designados (*nacional*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, 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, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) Fecha de presentación internacional:

22 de Mayo de 2003 (22.05.2003)

(25) Idioma de presentación:

español

(26) Idioma de publicación:

español

(71) Solicitante e

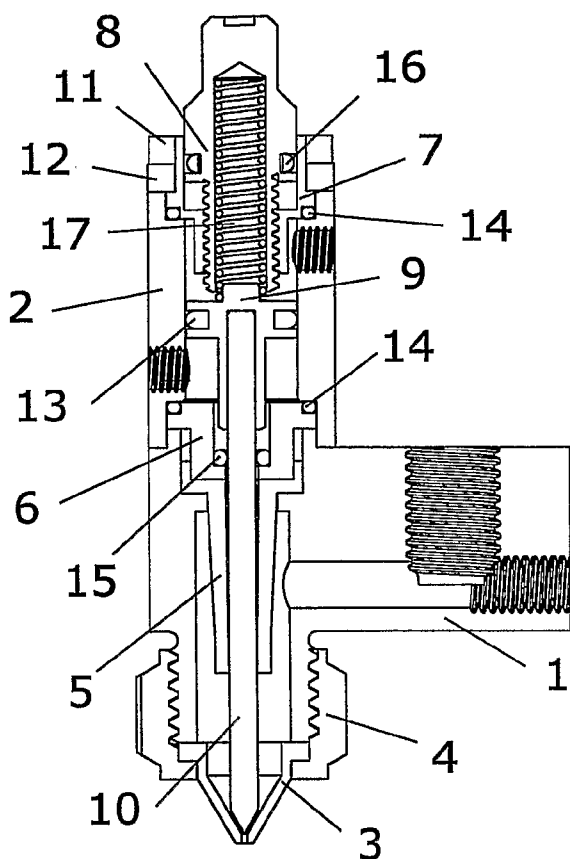
(72) Inventor: **PEÑALVER GARCIA, José** [ES/ES]; Pol. Ind. El Tapiado, 30500 MOLINA DE SEGURA, Murcia (ES).

(84) Estados designados (*regional*): patente ARIPO (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), patente euroasiática (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), patente europea (AT, BE, BG, CH, CY, CZ, DE, DK, EE,

[Continúa en la página siguiente]

(54) Title: PNEUMATIC, LIQUID-DISPENSING GUN

(54) Título: PISTOLA DE ACCIONAMIENTO NEUMÁTICO PARA DISPENSA DE LÍQUIDOS



(57) Abstract: The invention relates to a pneumatic, liquid-dispensing gun. The inventive gun comprises: a central body (1); a pneumatic body (2); a needle (10) comprising a guide (6) and a conical tip; a nozzle (3) which is fixed in place with a nut (4); a sealing bellows (5) which is concentric to the needle (10); a pneumatic rod (9); a flow regulator (8) comprising a graduated scale, serving as a vernier scale; a retainer joint (16); a safety spring (17); an element (7) into which the aforementioned flow regulator is screwed (8), said element being locked in place by a flange (12); four screws (11) which connect the central body (1), the pneumatic body (2) and the flange (12); O-rings (13) and (14) which are inserted between the central body (1) and the pneumatic body (2); and a dovetail (18) which is disposed in the central body (1) and which is used to install and adjust the gun in machines and other devices.

(57) Resumen: Dispone de un cuerpo central (1) y un cuerpo neumático (2); una aguja (10) con guía (6) y de punta cónica, más una boquilla (3) fijada mediante una tuerca (4); un fuelle de estanqueidad (5) concéntrico a la aguja (10); un vástago neumático (9); un regulador de caudal (8) con regla graduada, haciendo de nonio y una junta (16) retenedora, un resorte de seguridad (17); un elemento (7), en el que rosca el regulador de caudal (8) y que, a su vez, queda bloqueado por la brida (12); cuatro tornillos (11) que unen el cuerpo central (1), el cuerpo neumático (2) y la brida (12); unas juntas tóricas (13) y (14) de estanqueidad entre el cuerpo central (1) y el cuerpo neumático (2); una cola de milano (18) en el cuerpo central (1) de instalación y ajuste, en máquinas y otros dispositivos.

WO 2004/103571 A1

INTERNATIONAL SEARCH REPORT

International Application No

PCT/ES 03/00237

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B05B1/32

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B05B B05C F16K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 934 521 A (YAMADA ET AL) 10 August 1999 (1999-08-10) column 5, line 38 -column 9, line 67; figures	1-4
A	US 5 261 610 A (WARYU JOSEPH C ET AL) 16 November 1993 (1993-11-16) column 5, line 51 -column 13, line 58; figures	1-4
A	US 4 360 132 A (VILAGI ET AL) 23 November 1982 (1982-11-23) abstract; figure 3	1-4
A	EP 0 437 112 A (GRACE W R & CO) 17 July 1991 (1991-07-17) abstract; figure 3	1

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

6 February 2004

Date of mailing of the international search report

18. 03. 2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

F.Monge Zamorano