

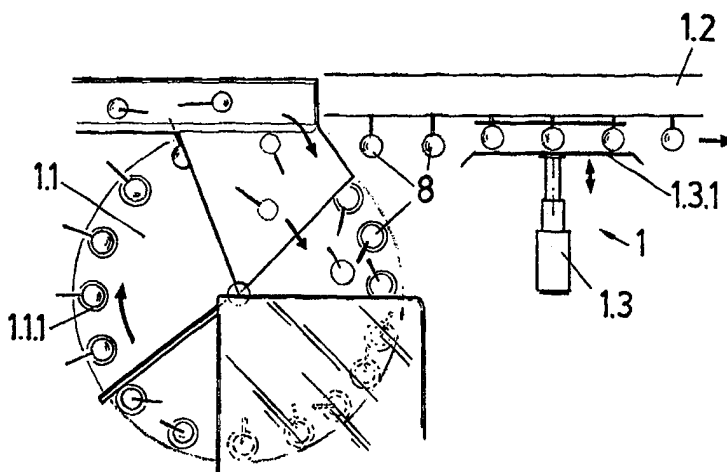
PCT
 ORGANIZACION MUNDIAL DE LA PROPIEDAD INTELECTUAL
 Oficina Internacional
 SOLICITUD INTERNACIONAL PUBLICADA EN VIRTUD DEL TRATADO DE COOPERACION
 EN MATERIA DE PATENTES (PCT)



(51) Clasificación Internacional de Patentes ⁶ : B65B 11/54, B65G 47/244	A1	(11) Número de publicación internacional: WO 00/21835 (43) Fecha de publicación internacional: 20 de Abril de 2000 (20.04.00)
(21) Solicitud internacional: PCT/ES98/00281 (22) Fecha de la presentación internacional: 15 de Octubre de 1998 (15.10.98) (71) Solicitante (para todos los Estados designados salvo US): CARUGIL, S.L. [ES/ES]; Pol. Ind. "El Tiro", Avda. del Este 6, Apartado 102, E-30100 Espinardo, Murcia (ES). (72) Inventores; e (75) Inventores/solicitantes (sólo US): HERNANDEZ VIDAL, Francisco [ES/ES]; Pol. Ind. "El Tiro", Avda. del Este 6, Apartado 102, E-30100 Espinardo, Murcia (ES). RUBIO GIL, Carlos [ES/ES]; Pol. Ind. "El Tiro", Avda. del Este 6, Apartado 102, E-30100 Espinardo, Murcia (ES). (74) Mandatario: ESTEBAN PEREZ-SERRANO, M ^a Isabel; Explanada 8, E-28040 Madrid (ES).		(81) Estados designados: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, 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, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, Patente ARIPO (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Patente euroasiática (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Patente europea (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), Patente OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Publicada <i>Con informe de búsqueda internacional.</i>

(54) Title: MACHINE FOR WRAPPING LOLLIPOPS

(54) Título: MAQUINA ENVOLVEDORA DE CAMELOS CON PALO



(57) Abstract

The lollipop wrapping machine comprises a lollipop fine positioning system (1) using a pusher; a system (2) for unwinding, cutting and supplying wrappers, said system having mechanisms and means for moving and cutting the wrappers; another system (3) for the supply of wrappers, using a ionized air curtain; a wrapper sealing system (4) using hot air; means (5) for controlling the hot air pressure and for deflecting discarded wrappers; a system (6) for rejecting lollipops with defective wrappings and a system (7) for changing automatically the bobbins.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/ES 98/00281

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 B65B11/54 B65G47/244

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 6 B65B B65G A23G

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 450 706 A (LATINI LEO) 19 September 1995 see column 2, line 67 - column 3, line 6 see column 3, line 31 - line 44 see column 3, line 53 - line 68 see column 6, line 39 - line 43 ---	1
A	EP 0 036 282 A (PARLOUR & BLACK (HOLDINGS) LTD) 23 September 1981 see abstract; figures 10,13 ---	1
A	US 5 241 807 A (QUICK HOWARD E ET AL) 7 September 1993 ---	
A	US 4 024 058 A (DERCKX HENRICUS ANTONIUS JACOB) 17 May 1977 ---	
	-/--	



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

16 June 1999

Date of mailing of the international search report

30.06.99

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

Martínez Navarro, A.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/ES 98/00281

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 285 199 A (STAMP ET AL) 15 November 1966 -----	