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**(81) Estados designados:** 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, ZW, Patente ARIPO (GH, GM, KE, LS, MW, SD, SL, 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).

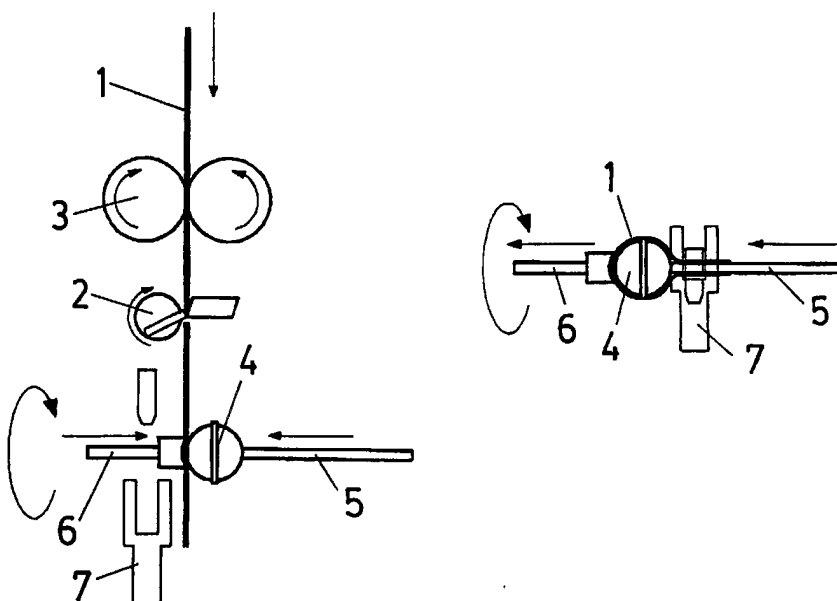
**Publicada**  
 Con informe de búsqueda internacional.

**(54) Title:** METHOD AND DEVICE FOR PLACING THE WRAPPERS OF LOLLIPOPS

**(54) Título:** PROCEDIMIENTO Y DISPOSITIVO DE COLOCACION DE LA ENVOLTURA DE LOS CAMELOS CON PALO

**(57) Abstract**

The invention relates to a method and a device for placing wrappers of lollipops by continuously advancing the paper and cutting the latter with a rotational blade (2). After cutting, the head of the lollipop (4) and a push piston grip the paper (1) as the piston rotates thereby wrapping the paper around the head (4) of the lollipop while the ensemble is displaced until the part of the stick (5) located near the head (4) is located under the pliers (7) which closes and finally seals the wrapper (1) on the stick (5), the lollipops being fed directly to the plate (9) through a chain (8) having inlet (10) and outlet (11) loops and bearing means (8.1).



**(57) Resumen**

Procedimiento y dispositivo de colocación de la envoltura de los caramelos con palo avance del papel se produce de modo continuo mediante corte por cuchilla giratoria (2) y que, tras el momento del corte, la cabeza del pirulí (4) y un pistón empujador sujetan el papel (1) a la vez que el pistón gira produciendo la envoltura del papel sobre la cabeza (4) del caramelo, a la vez se produce un desplazamiento del conjunto hasta que la parte del palo (5) que está en proximidad de la cabeza (4) queda bajo la pinza (7), que es la encargada de cerrar sobre el palo (5) el papel de envolver (1), y sellarlo finalmente, habiéndose producido la alimentación de caramelos con palo al plato (9) en directo, mediante cadena (8) con bucles de entrada (10) y salida (11) y medios (8.1) portadores.

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/ES 99/00124

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B65B11/14 B65D75/10 A23G7/00

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 B65B B65D 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. |
|----------|----------------------------------------------------------------------------------------------------------------|-----------------------|
| X        | EP 0 036 282 A (WRIGLEY W M JUN CO)<br>23 September 1981 (1981-09-23)<br>claims 3,6; figures 3,10-13<br>---    | 1-3                   |
| X        | GB 328 145 A (A.G. ROSE)<br>24 April 1930 (1930-04-24)<br>---                                                  | 1,3                   |
| Y        | page 4, line 3 - line 87; figures 1,8<br>---                                                                   | 2                     |
| Y        | US 2 744 370 A (A.SERAGNOLI)<br>6 April 1951 (1951-04-06)<br>figures 1-3,14<br>---                             | 2                     |
| A        | US 5 519 981 A (FUKUSAKI HIROAKI)<br>28 May 1996 (1996-05-28)<br>figures 8,4,10A,10B,10C,18-20D<br>---<br>-/-- | 1                     |

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

☒ Patent family members are listed in annex.

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"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

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category | Citation of document, with indication, where appropriate, of the relevant passages      | Relevant to claim No. |
|----------|-----------------------------------------------------------------------------------------|-----------------------|
| A        | DE 630 305 C (JAGENBERG-WERKE)<br>7 May 1933 (1933-05-07)<br>figures 5,6<br>---         | 1                     |
| A        | GB 2 277 511 A (BERNAT ENRIQUE F SA)<br>2 November 1994 (1994-11-02)<br>---             |                       |
| A        | EP 0 073 535 A (AQUARIUS C)<br>9 March 1983 (1983-03-09)<br>---                         |                       |
| A        | GB 831 135 A (ROSE BROTHERS)<br>23 March 1960 (1960-03-23)<br>the whole document<br>--- | 1                     |
| A        | EP 0 018 701 A (AQUARIUS C)<br>12 November 1980 (1980-11-12)<br>-----                   |                       |