Title: DRY HYDRAULIC CAN SHAPING

Abstract: A method for shaping an aerosol container (10) to a desired body contour. A container body (12) is formed into a cylindrical shape and installed into a mold (30) whose inner surface defines the desired body contour. A bladder (74) is fitted onto a tool (50) insertable into an open end (M) of the container body. Once the tool is inserted, the bladder is inflated with a hydraulic fluid. Pressurizing the bladder forces the bladder against a sidewall of the body forcing the body outwardly and deforming it against the inside of the mold. After the container body is shaped, the bladder is de-pressurized and the tool withdrawn leaving the container with a defined body contour. The hydraulic fluid with which the bladder is pressurized is, at all times, contained within the bladder and does not contact the container sidewall so no subsequent drying of the container is required after the shaping process is complete.
Published:
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
23 November 2006

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.
### INTERNATIONAL SEARCH REPORT

**A. CLASSIFICATION OF SUBJECT MATTER**

**IPC:** B21D 26/02(2006.01)

**USPC:** 72/56,57,58,61,62,63,379.4:29/421.1:413/73,75,76

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)

U.S.: 72/56,57,58,61,62,63,379.4:29/421.1:413/73,75,76

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 practicable, search terms used)

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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<tbody>
<tr>
<td>X</td>
<td>US 3,688,535 A (KEINANEN et al) 05 September 1972 (05.09.1972), the entire document.</td>
<td>12, 21-22</td>
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<td>1-5, 13-14, 23-24, 31-32</td>
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<td>Y</td>
<td>US 2,742,873 A (MOORE) 24 April 1956 (24.04.1956), figures 2 and 3.</td>
<td>1-5, 12-14, 21-24 and 31-32</td>
</tr>
</tbody>
</table>

[See patent family annex.]

Further documents are listed in the continuation of Box C.

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Date of the actual completion of the international search: 15 August 2006 (15.08.2006)

Date of mailing of the international search report: 21 SEP 2006

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Form PCT/ISA/210 (second sheet) (April 2005)
## C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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<td>X</td>
<td>JP 59076628 A (TANAKA et al) 01 May 1984 (01.05.1984), figures 1-5.</td>
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