Title: METHOD AND APPARATUS FOR IMPROVED DETECTION OF HOLES IN PLASTIC CONTAINERS

Abstract: A method and apparatus for monitoring the production of blow molded plastic containers is disclosed, wherein the method and apparatus utilize a sound detector assembly adapted to be positioned adjacent a mold cavity during the introduction of pressure fluid to a preform in the mold cavity to form a container, the sound detector assembly including a reflector having a substantially conic cross-sectional shape and a sound detector and being responsive to a defect sound of the pressure fluid escaping from the interior of the container for generating an output signal.
### INTERNATIONAL SEARCH REPORT

**International application No.**
PCT/US2009/037376

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#### A. CLASSIFICATION OF SUBJECT MATTER

**IPC(8) - G01M 3/24 (2009.01)**  
**USPC - 73/40.5 A**

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(8) - G01M 3/24 (2009.01)**  
**USPC - 73/40.5 A**

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)  
USPTO EAST System (US, USPG-PUB, EPO, DERWENT), MicroPatent

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#### C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
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<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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<td>2-10, 15-20</td>
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<tr>
<td>Y</td>
<td>US 2,967,298 A (RIGGINS et al) 03 January 1961 (03.01.1961) entire document</td>
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<td>Y</td>
<td>US 2,334,484 A (DUNBAR) 16 November 1943 (16.11.1943) entire document</td>
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**Date of the actual completion of the international search**  
06 May 2008

**Date of mailing of the international search report**  
14 MAY 2009

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**Authorized officer:**  
Blaine R. Copenhaver

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