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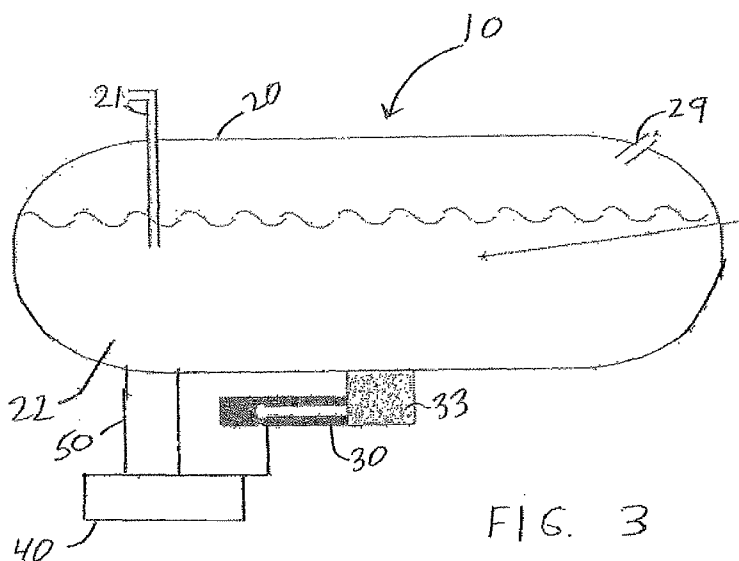
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(54) Title: WATER LEVEL MEASUREMENT DEVICE USING LOAD CELL



(57) Abstract: An assembly for measuring the water level of a food industry machine has a water tank holding water to be heated, a load cell installed underneath the water tank so that a weight of the water tank holding the water impinges on a strain gauge of the load cell, a controller for receiving an electric signal from the load cell proportionate to a weight of the water tank plus the water in the water tank and converting the weight to a water level of the water tank based on a pre-determined formula and a display structure for continuously displaying a water level of the water in the water tank. The water level measurement device stays dry and free of scale deposits.



INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - A47J 31/54 (2012.01) USPC - 99/285 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) - A23F 5/00; A23L 1/00; A47B 31/02; A47J 31/00, 31/04, 31/057, 31/06, 31/10, 31/24, 31/36, 31/40, 31/44, 31/46 (2012.01) USPC - 99/222, 275, 279, 280, 281, 283, 285, 290, 293, 295, 299, 300, 304, 305, 306, 307, 323; 137/341, 587; 141/231, 352; 219/493 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) PatBase, Google Patents, ProQuest, Google																							
C. DOCUMENTS CONSIDERED TO BE RELEVANT <table border="1"> <thead> <tr> <th>Category*</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>Y</td> <td>US 6,067,894 A (EUGSTER) 30 May 2000 (30.05.2000) entire document</td> <td>1-18</td> </tr> <tr> <td>Y</td> <td>US 6,741,180 B2 (LASSOTA) 25 May 2004 (25.05.2004) entire document</td> <td>1-18</td> </tr> <tr> <td>Y</td> <td>US 2006/0037481 A1 (BICHT) 23 February 2006 (23.02.2006) entire document</td> <td>6</td> </tr> <tr> <td>Y</td> <td>US 2,680,802 A (BREMER et al) 08 June 1954 (08.06.1954) entire document</td> <td>11-18</td> </tr> <tr> <td>Y</td> <td>US 2011/0058797 A1 (SERVIDIO) 10 March 2011 (10.03.2011) entire document</td> <td>11-18</td> </tr> <tr> <td>Y</td> <td>US 2010/0183778 A1 (KREUTZER ORENT et al) 22 July 2010 (22.07.2010) entire document</td> <td>11-18</td> </tr> </tbody> </table>			Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	Y	US 6,067,894 A (EUGSTER) 30 May 2000 (30.05.2000) entire document	1-18	Y	US 6,741,180 B2 (LASSOTA) 25 May 2004 (25.05.2004) entire document	1-18	Y	US 2006/0037481 A1 (BICHT) 23 February 2006 (23.02.2006) entire document	6	Y	US 2,680,802 A (BREMER et al) 08 June 1954 (08.06.1954) entire document	11-18	Y	US 2011/0058797 A1 (SERVIDIO) 10 March 2011 (10.03.2011) entire document	11-18	Y	US 2010/0183778 A1 (KREUTZER ORENT et al) 22 July 2010 (22.07.2010) entire document	11-18
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Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201		Authorized officer: Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774																					