

Title (en)

DEVICE FOR MEASURING THE FILLING LEVEL IN A CONTAINER USING THERMOELEMENTS

Title (de)

VORRICHTUNG ZUM MESSEN DER FÜLLSTANDSHÖHE IN EINEM BEHÄLTER MITTELS THERMOELEMENTEN

Title (fr)

DISPOSITIF DE MESURE DU NIVEAU DANS UN RECIPIENT AU MOYEN DE THERMOELEMENTS

Publication

**EP 1144963 A1 20011017 (DE)**

Application

**EP 98965873 A 19981224**

Priority

EP 9808448 W 19981224

Abstract (en)

[origin: WO0039540A1] In a device for measuring the filling level, thermoelements (20) are used which are disposed on a sheet-shaped support (25). The thermoelements (20) consist of two different materials and are disposed in two rows (71, 72) placed side by side. Two adjacent thermoelements (20) of said rows (71, 72) have a common junction point (23) that is heated. Both rows (71, 72) of thermoelements also have two additional junction points that are cold. A first group of thermoelements (20) is disposed with their supports (25) in the interior of the container and operate as measuring detectors. A second group of thermoelements (20) serves as reference sensors since they regulate the heat flow impinging upon the junctions points (23) relative to a defined reference voltage.

IPC 1-7

**G01F 23/22**

IPC 8 full level

**G01F 23/22** (2006.01)

CPC (source: EP US)

**G01F 23/22** (2013.01 - EP US); **Y10T 29/49004** (2015.01 - EP US); **Y10T 29/49082** (2015.01 - EP US); **Y10T 29/49083** (2015.01 - EP US); **Y10T 29/49155** (2015.01 - EP US)

Citation (search report)

See references of WO 0039540A1

Designated contracting state (EPC)

AT DE ES FR GB IE IT PT SE

DOCDB simple family (publication)

**WO 0039540 A1 20000706**; EP 1144963 A1 20011017; US 6662429 B1 20031216

DOCDB simple family (application)

**EP 9808448 W 19981224**; EP 98965873 A 19981224; US 86894901 A 20010622