

Title (en)
Pressure vessel containing a movable piston and a device for determining the position of the piston in the pressure vessel

Title (de)
Druckbehälter mit einem darin beweglichen Kolben und einer Vorrichtung zur Positionsbestimmung des Kolbens in dem Druckbehälter

Title (fr)
Récipient sous pression doté d'un piston se déplaçant à l'intérieur et un dispositif de détermination de la position du piston dans le récipient sous pression

Publication
EP 2615309 A3 20160921 (DE)

Application
EP 13150383 A 20130107

Priority
DE 102012100335 A 20120116

Abstract (en)
[origin: EP2615309A2] The method involves attaching a flat arrangement (15) on a wall (11) of a pressure tank (10). The flat arrangement is made up of a base material provided with an electric conductor and designed to form a component of a capacitive measuring arrangement. A change of an electrical alternating field to be generated in the tank is measured by change of position of a piston (13), where the electrical alternating field is generated by the supply of electrical energy. A respective position of the piston is determined in the tank that is made of fiber-reinforced plastic material. An independent claim is also included for a device for performing a method for determining position of piston movement in a cylindrical pressure tank.

IPC 8 full level
F15B 1/24 (2006.01); **F15B 15/28** (2006.01)

CPC (source: EP US)
B65D 25/38 (2013.01 - US); **F15B 1/24** (2013.01 - EP US); **F15B 15/2815** (2013.01 - EP US); **F15B 2201/205** (2013.01 - EP US); **F15B 2201/31** (2013.01 - EP US); **F15B 2201/4053** (2013.01 - EP US); **F15B 2201/515** (2013.01 - EP US); **F15B 2201/605** (2013.01 - EP US); **F15B 2215/305** (2013.01 - EP US)

Citation (search report)
• [Y] US 2008173172 A1 20080724 - FISH ELSON B [US], et al
• [YD] EP 1923680 A2 20080521 - STRUKTURLEICHTBAU E V [DE], et al

Cited by
WO2015049359A1; WO2015049361A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2615309 A2 20130717; EP 2615309 A3 20160921; DE 102012100335 A1 20130718; DE 102012100335 B4 20131107; US 2013206629 A1 20130815

DOCDB simple family (application)
EP 13150383 A 20130107; DE 102012100335 A 20120116; US 201313742914 A 20130116