

Title (en)

APPARATUS AND METHOD FOR DETERMINING A LEVEL OF A FLUID SURFACE IN A FLUID CONTAINER

Title (de)

VORRICHTUNG UND VERFAHREN ZUM BESTIMMEN EINER HÖHE EINER FLUIDOBERFLÄCHE IN EINEM FLUIDBEHÄLTER

Title (fr)

DISPOSITIF ET PROCÉDÉ PERMETTANT DE DÉTERMINER LA HAUTEUR DE LA SURFACE D'UN FLUIDE DANS UN RÉSERVOIR DE FLUIDE

Publication

EP 3063513 A2 20160907 (DE)

Application

EP 15724646 A 20150526

Priority

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- EP 2015061495 W 20150526

Abstract (en)

[origin: WO2015181107A2] An apparatus and a method for determining a level (H) of a fluid surface (O) in a fluid container (1), comprising a first acoustic transducer (10) for transmitting and receiving first acoustic signals (12, 14) towards the fluid surface (O), and a second acoustic transducer (20) for transmitting and receiving second acoustic signals (22, 24); a reference element (30, 40) located at a predefined distance from the second acoustic transducer (20) and mounted in a fluid chamber (5); a first deflecting element (50) mounted in the fluid chamber (5) for deflecting the second acoustic signals (22, 24) at a first predefined angle (W1) towards the fluid surface (O); wherein on the basis of the second acoustic signals (22, 24) a sound velocity within a fluid (F) is determined and on the basis of the first acoustic signals (12, 14), the second acoustic signals (22, 24) and the sound velocity within the fluid (F) the level (H) above a base portion (3) is determined.

IPC 8 full level

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CPC (source: CN EP KR US)

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Citation (search report)

See references of WO 2015181107A2

Citation (examination)

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