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(81) Designated States (unless otherwise indicated, for every kind of national protection available):

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(54) Title: DIFFERENTIAL DENSITY SYSTEM AND METHOD

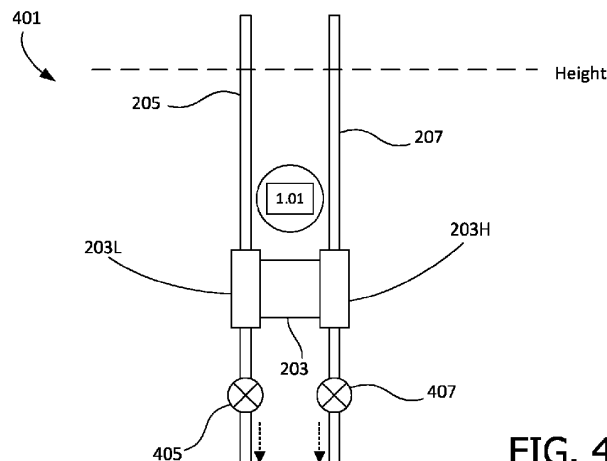


FIG. 4

(57) Abstract: Differential density system and method. A differential pressure transmitter measures a pressure difference between first and second pressure sensing locations. A reference vessel in fluid communication with the first pressure sensing location contains a reference fluid and a sample vessel in fluid communication with the second pressure sensing location contains a sample fluid. The reference fluid is in a first column above the first pressure sensing location and the sample fluid is in a second column above the second pressure sensing location. The second column is of substantially equal height as the first column. A value of total dissolved solids (TDS) in the sample fluid is determined based on the pressure difference.

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