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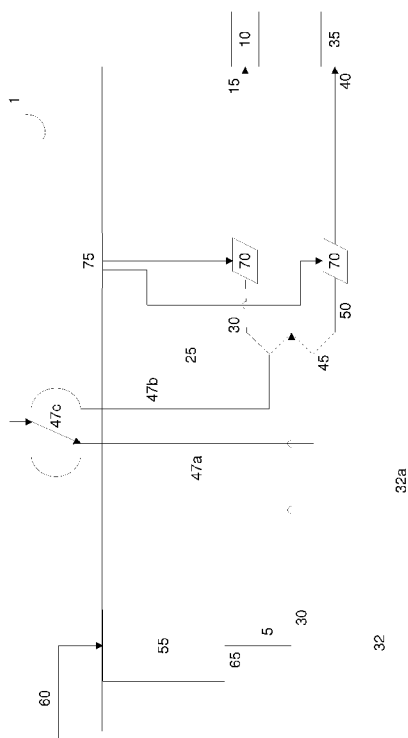
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**(54) Title:** METHOD FOR DETERMINING THE DEW POINT OF A VAPORISED HYDROCARBON FEEDSTOCK

FIG. 1



**(57) Abstract:** The present invention provides a method for determining the dew point of a vaporised hydrocarbon feedstock, comprising a) providing a hydrocarbon feedstock and a non-hydrocarbonaceous diluent; b) heating the hydrocarbon feedstock and diluent to a first temperature and maintaining the hydrocarbon feedstock and diluent at the first temperature until all hydrocarbon feedstock is vaporized and a homogeneous mixture of the hydrocarbon feedstock and diluent is obtained; c) passing a first flow of the mixture through a first zone maintained at a second temperature, which is lower than the first temperature; d) halting the first flow; e) passing a second flow comprising a non-hydrocarbonaceous sweep gas through the first zone and providing the sweep gas exiting the first zone to a detector suitable for detecting the presence of hydrocarbons; f) decreasing the temperature of the first zone, wherein steps (c) to (f) are repeated at least until a hydrocarbon presence is detected in the sweep gas. The invention further provides a method for measuring the dew point of a steam cracker feed and a system for determining the dew point of a vaporised hydrocarbon feedstock.



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