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(54) Title: MARKING OF HYDROCARBON PRODUCTS

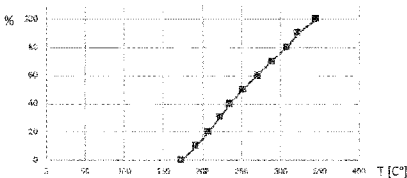


Fig 2a: Distillation profile of HP1 (diesel).

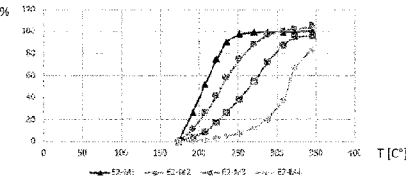


Fig 2b: Distillation profiles of markers E2-M1, E2-M2, E2-M3 and E2-M4.

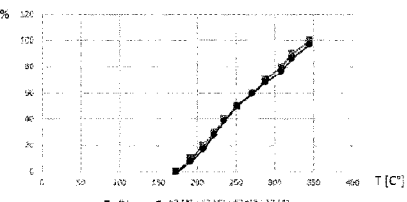


Fig 2c: Distillation profiles of the HP2 and markers as calculated by least square convex constrained optimization.

(57) Abstract: The present invention relates to a method for marking a hydrocarbon product (HP) by using at least two markers, wherein the at least two markers have at least one same atom and/or functional group and the markers have different boiling points and/or different distillation profiles. The markers are selected in such a way that the entire range of the distillation temperature T(BpL) and T(BpE) of the HP is covered. An atom portion originating from individual markers M1 and M2 in a marker mixture Mx is determined by performing a regression analysis for at least part of the distillation temperature range of the HP. Based on said analysis a marker mixture Mx is calculated and added to mark a HP. The invention also relates to a fuel marked by the method and methods for detecting adulteration in HP.

