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(54) **Activation determining system for oxygen sensor**

(57) In the activation determining system for an oxygen sensor, a signal processing circuit is configured to output a signal converging to a predetermined convergence value VP when the oxygen sensor is maintained in the deactivated state. A deactivation determining section is configured to determine that the oxygen sensor is in the deactivated state when an output value Vd(n) from the signal processing circuit falls in a predetermined deactivation range Rna including the convergence value VP. The deactivation determining section is configured to determine that the oxygen sensor is in an activated state when the output value Vd(n) falls in a predetermined first activation range Ra1 different from the deactivation range Rna. The deactivation determining section is configured to determine that the oxygen sensor is in the deactivated state when the output value Vd(n) varies towards the convergence value VP and exceeds a predetermined threshold Vth including in the first activation range Ra1 during execution of fuel supply cut-off.

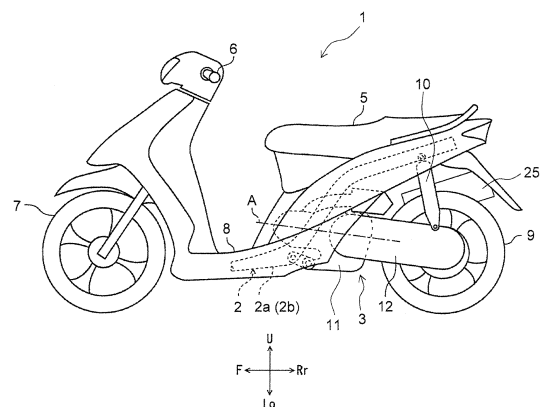


FIG. 1



## EUROPEAN SEARCH REPORT

Application Number  
EP 11 18 8522

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			TECHNICAL FIELDS SEARCHED (IPC)
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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 27 August 2014	Examiner Martínez Hurtado, L
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document			

**ANNEX TO THE EUROPEAN SEARCH REPORT  
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