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(54) **Vane-Type Camshaft Phaser**

(57) The present invention is directed towards a vane-type camshaft phaser comprising a unitized housing including a lobed stator and a vaned rotor disposed within the housing, the lobed stator and the vaned rotor defining therebetween at least one advancing chamber

and at least one retarding chamber, at least one controllable fluid leakage means being provided between the at least one advancing chamber (61) and the at least one retarding chamber. The at least one controllable fluid leakage means is provided in a vane of the vaned rotor or in a lobe of the lobed stator.

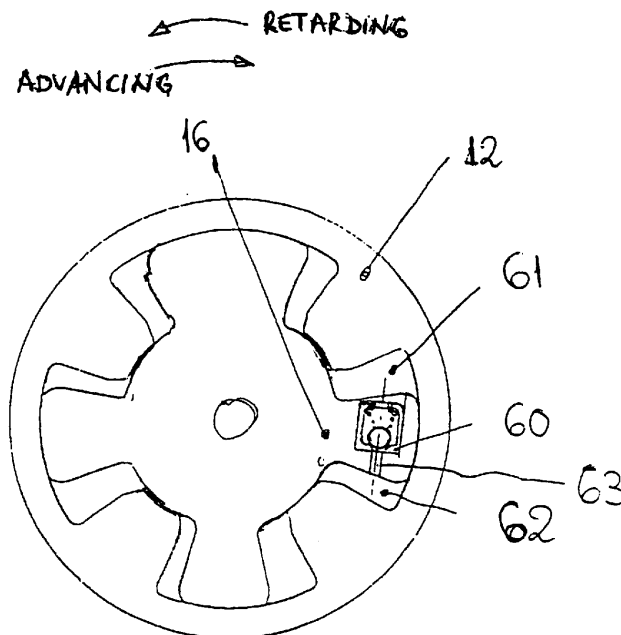


Fig. 4

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European Patent
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EUROPEAN SEARCH REPORT

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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			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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