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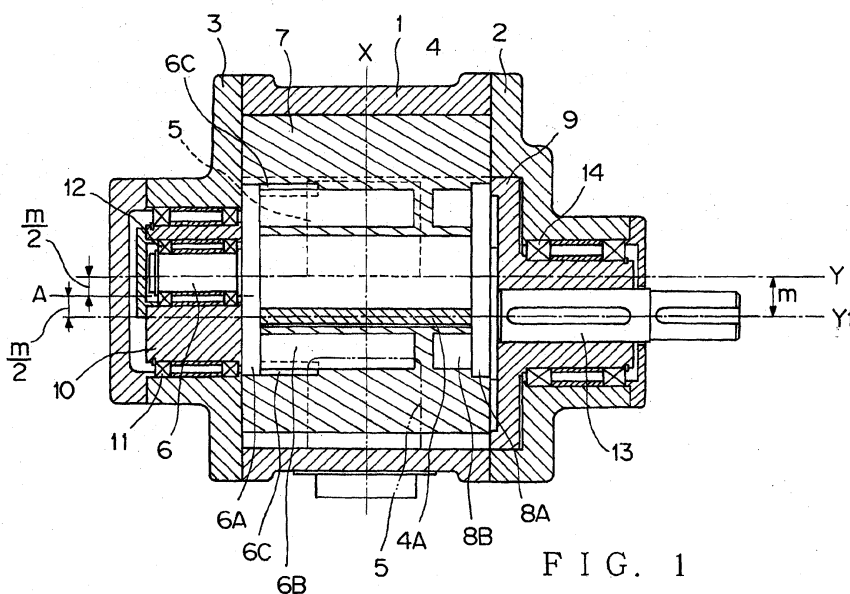
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(54) **Vane-type fluid machine**

(57) A vane-type fluid machine capable of mechanically moving a vane and of producing a high compression ratio is provided, which includes: a casing having a contacting-surface circular arc on an inner periphery thereof; a rotor eccentrically fitted in the casing with a predetermined eccentricity, having a diameter to form a sealing surface with respect to the contacting-surface circular arc for keeping seal between a suction side and a discharge side and the rotor, and having a rotor dis-

charging groove on an outer surface thereof; a vane slidably inserted in a rotor groove formed on the rotor; and a drive shaft inserted in a boss portion of the rotor concentrically with the rotor, wherein, with rotation of the rotor, fluid is sucked into a space formed in the casing and simultaneously fluid in another space formed in the casing is compressed, while being discharged from a discharge hole provided on the contacting-surface circular arc through the rotor discharging groove.



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# EUROPEAN SEARCH REPORT

Application Number  
EP 99 10 1550

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
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The present search report has been drawn up for all claims			
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>31 July 2000</b>	Examiner <b>Kapoulas, T</b>
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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The members are as contained in the European Patent Office EDP file on  
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82