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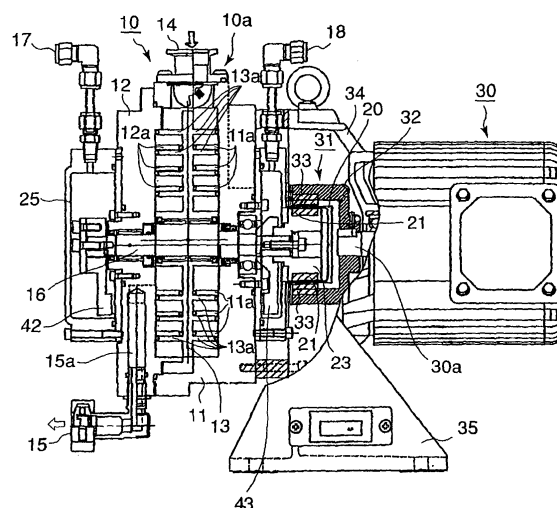
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(54) **A fluid machine connected to a drive source via a magnetic coupling**

(57) The present invention aims to propose a fluid machine in which a magnetic coupling includes an outer rotor (32) to the cylinder-bottom part of which a drive shaft of the drive component is connected, outer rotor side magnets (33) placed on an inner periphery of the outer rotor, an inner rotor (23) fitted to a drive shaft of the fluid machine, inside the outer rotor, inner rotor side magnets (21) placed on an outer periphery of the inner rotor, whereby attraction workings and repulsion workings between the outer rotor side magnets and the inner rotor side magnets transmit torques of the drive component to the fluid machine, and a sealing assembly (20) a partition part of which is placed between the inner rotor (23) and the outer rotor (32) and surrounds a drive shaft of the fluid machine so as to secure gas-tightness, the shaft including the inner rotor (23) and the inner rotor side magnets (21); further an air ventilation device for ventilating a space inside the outer rotor by means of inducing and/or discharging ambient air is provided into the outer rotor (32) of the magnetic coupling so as to cool the sealing assembly (20) and the outer rotor side magnets (33).

**Fig. 1**





## EUROPEAN SEARCH REPORT

Application Number  
EP 07 02 4423

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3	Place of search Munich	Date of completion of the search 16 October 2009	Examiner Alquezar Getan, M
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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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
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