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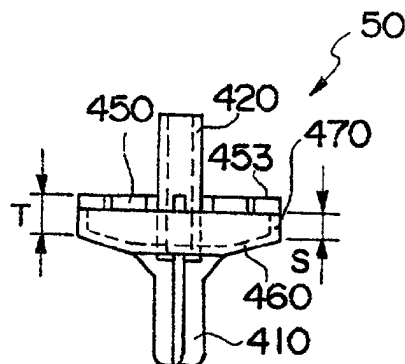
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(54) **Drain pump**

(57) A pump body 30 of a drain pump comprises an intake opening 42 protruded downward and a discharge opening 46 extending to the side. A vane 50 inside the pump body 30 is rotated by a motor. The vane 50 is formed so that the outer peripheral portion of large ra-

dius vanes 450 is surrounded by a cylindrical wall member 470. The height of the cylindrical wall member 470 against the height of the large radius vanes 450 to the upper rim portion 453 is set to be in a predetermined range, which effectively reduces the noise being generated.

**Fig. 9**





European Patent  
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# EUROPEAN SEARCH REPORT

Application Number  
EP 99 11 8429

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	EP 0 760 428 A (FUJIKOKI CORP) 5 March 1997 (1997-03-05) * the whole document * -----	1-4	F04D29/66 F04D29/22 F04D29/24
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			F04D
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>17 August 2000</b>	Examiner <b>Zidi, K</b>
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p> <p>&amp; : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
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