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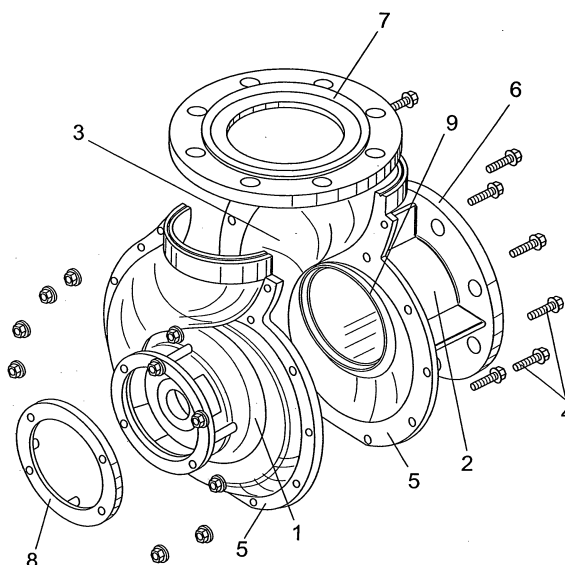
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(54) **Mixed flow centrifugal volute pump for swimming pools**

(57) The mixed flow volute pump presents the particular feature of its casing comprising two independent parts (1) and (2) obtained by means of plastic injection molding, preferably of polypropylene, said parts (1) and (2) being joined together by means of screws (4). The materialization of the pump casing in plastic provides advantages such as lower manufacturing costs and less weight compared to conventional pump casings made of

cast iron. The two parts (1) and (2) have a special shape such that the corresponding Archimedes volute (3) to be found in conventional pump casings of the same type is defined between them both. Established in the said parts (1) and (2) are flanges (5) for joining them together, along with a flange (6) for fixing to the respective motor, and a flange (7) for coupling to the discharge nozzle for the flow, establishing the closure of the volute (3).



**FIG. 1**



## EUROPEAN SEARCH REPORT

Application Number  
EP 09 38 0008

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	DE 44 44 968 A1 (KLEIN SCHANZLIN & BECKER AG [DE]) 20 June 1996 (1996-06-20) * abstract; figure 1 *	1-5	INV. F04D29/02 F04D29/42
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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 Munich		Date of completion of the search 14 April 2014	Examiner de Martino, Marcello
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			

1  
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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.  
The members are as contained in the European Patent Office EDP file on  
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