

Title (en)  
A self-priming centrifugal pump

Title (de)  
Selbstansaugende Kreiselpumpe

Title (fr)  
Pompe centrifuge auto-amorçante

Publication  
**EP 1510696 A1 20050302 (EN)**

Application  
**EP 03425564 A 20030829**

Priority  
EP 03425564 A 20030829

Abstract (en)  
A self-priming centrifugal pump comprising a pump body (2), a motorised impeller (8) mounted internally to the pump body (2) and a diffuser (13) positioned downstream of the impeller (8), with reference to the direction of flow of a liquid in the pump (1). The diffuser (13) has a first and a second wall (14), (15) defining between them an annular diffusion chamber (16). The diffusion chamber (16) has a first segment (18) and a second segment (19), the one being the continuation of the other, the first segment (18) corresponding, in use, to an upper portion of the diffusion chamber (16). The first wall (14) has a plurality of openings (17) positioned along its own outer circumferential periphery to allow the entry of the flow of liquid exiting the impeller (8) into the diffusion chamber (16), whilst the second wall (15) is substantially closed in correspondence with the first segment (18), and it has at least a through hole (20) in correspondence with the second segment (19), to put in communication the second segment (19) of the diffusion chamber (16) with the delivery chamber (5). <IMAGE>

IPC 1-7  
**F04D 9/06**

IPC 8 full level  
**F04D 9/06** (2006.01)

CPC (source: EP)  
**F04D 9/06** (2013.01)

Citation (search report)  

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