

Title (en)  
Multistage centrifugal pump

Title (de)  
Mehrstufige Kreiselpumpe

Title (fr)  
Pompe centrifuge multiétages

Publication  
**EP 0554803 B1 19960124 (FR)**

Application  
**EP 93101383 A 19930129**

Priority  
IT MI920243 A 19920207

Abstract (en)  
[origin: EP0554803A1] A submerged centrifugal pump, of the multistage type, with a closed rotating ring (14), is used in particular for extracting fluids containing sand, earth and/or small debris from underground wells. Each stage (4) of the pump comprises a chamber, inside which is contained a rotating ring (14) with vanes, consisting of a cover (11), a hollow cylinder-shaped staggering element (12) and a diffuser (13) with fixed vanes. Between ring (14) and lid (11) sealing means (15,16) are interposed, arranged and shaped so as to prevent the infiltration between them of solid suspensions present in the fluid. <IMAGE>

IPC 1-7  
**F04D 29/16**; **F04D 13/10**

IPC 8 full level  
**F04D 13/10** (2006.01); **F04D 29/16** (2006.01)

CPC (source: EP)  
**F04D 13/10** (2013.01); **F04D 29/167** (2013.01)

Cited by  
DE19800617A1; AU2001254510B2; AU2001254510C1; US6837677B2; US7665975B2; WO0183995A1; WO2016151528A1; WO2007075781A3

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