

Title (en)
MOINEAU-TYPE PUMP

Publication
EP 0561494 A3 19931103 (EN)

Application
EP 93300805 A 19930203

Priority
ZA 921133 A 19920217

Abstract (en)
[origin: EP0561494A2] A positive displacement pump 10 includes a pressure chamber 62 having a pumping outlet 79 connected to a delivery conduit 58. The pump 10 includes a bypass outlet 64 connected to the pressure chamber and a valve 70 in the bypass outlet. The valve 70 is open when the pump is not operative and closes automatically when a predetermined pumping volume is attained. The pump may advantageously be a submersible progressive cavity pump, the delivery conduit being a rising main having a foot valve 80 associated therewith. The bypass outlet is in communication with a body of fluid external of the rising main, eg with a borehole. Initially, during start-up, delivery of the pump is directed via the bypass outlet against a low head or substantially no head. Only after start-up, is the delivery directed via the pumping outlet 79, into the delivery conduit at a head prevailing in the rising main 58. <IMAGE>

IPC 1-7
F04C 2/107; **F04C 15/04**

IPC 8 full level
F04C 14/06 (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP)
F04C 14/06 (2013.01); **F04C 15/0053** (2013.01)

Citation (search report)

- [X] US 4416592 A 19831122 - LINDTVEIT HERBERT E [US]
- [X] FR 2206283 A1 19740607 - ENVIRONMENT ONE CORP [US]
- [A] GB 2157766 A 19851030 - FACET ENTERPRISES
- [A] FR 1513047 A 19680209 - BORG WARNER
- [A] US 2267459 A 19411223 - HAIT JAMES M

Cited by
US6497556B2; US5820354A; GB2338268A; CN105889062A; EP0641937A1; US6604910B1; US6945755B2; US8267677B2

Designated contracting state (EPC)
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EP 93300805 A 19930203; AU 3297193 A 19930210; ZA 93900 A 19930209; ZW 1993 A 19930201