

Title (en)  
Oil pumping method and facility

Title (de)  
Erdöl-Produktionseinrichtung und Verfahren

Title (fr)  
Procédé et installation de pompage d'un effluent pétrolier

Publication  
**EP 0818603 B1 20021002 (FR)**

Application  
**EP 97401594 A 19970704**

Priority  
FR 9608478 A 19960708

Abstract (en)  
[origin: EP0818603A1] Installation for pumping a liquid from an underground source consists of a shaft (10) from the surface (12) to the source (14) that includes a chamber (40) that extends over its entire length, at least one casing pipe (18) passing through the chamber and communicating with it, and a valve assembly (34). The assembly (34) is used to selectively connect the chamber with a source of gas at a 1st pressure (36) that enables the liquid to fill the chamber and a source of gas at a greater 2nd pressure (38) to empty the chamber, the liquid being pushed back to a 1st outlet (30) through the casing pipe. A valve (52) mounted in the casing pipe (18) and a 2nd pipe (58;70) leads to a 2nd outlet (74). The flap valve reacts to the density of the fluid surrounding it so that a 1st liquid is pushed back to the 1st outlet and a 2nd liquid of higher density is directed to the 2nd outlet (74) through a 2nd pipe (58;70).

IPC 1-7  
**E21B 43/38**; **E21B 43/12**

IPC 8 full level  
**E21B 43/12** (2006.01); **E21B 43/38** (2006.01)

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