

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)

CPC (source: EP US)

E21B 43/122 (2013.01 - EP US); **E21B 43/38** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0818603 A1 19980114; **EP 0818603 B1 20021002**; AT E225459 T1 20021015; CA 2209515 A1 19980108; CA 2209515 C 20051025; DE 69715981 D1 20021107; FR 2750732 A1 19980109; FR 2750732 B1 19981030; NO 312044 B1 20020304; NO 973141 D0 19970707; NO 973141 L 19980109; OA 10434 A 20011207; US 5873410 A 19990223

DOCDB simple family (application)

EP 97401594 A 19970704; AT 97401594 T 19970704; CA 2209515 A 19970707; DE 69715981 T 19970704; FR 9608478 A 19960708; NO 973141 A 19970707; OA 70043 A 19970708; US 88958697 A 19970708