

Title (en)

De-aerating device for liquid carrying siphon pipes

Title (de)

Vorrichtung zum Entlüften einer eine Flüssigkeit führenden Heberleitung

Title (fr)

Dispositif de désaération de conduites de siphon transportant du liquide

Publication

**EP 0849410 A3 19990127 (DE)**

Application

**EP 97122214 A 19971217**

Priority

DE 19652585 A 19961217

Abstract (en)

[origin: EP0849410A2] The device includes a deaeration chamber (5), which is connected by a riser pipe (2) at its base to a siphon pipe (1), and, which has a suction connection (54) at its top. A vacuum supply (9) is attached to the suction connection, to reduce the pressure in the deaeration chamber with respect to that in the siphon pipe. A float valve (50) in the deaeration chamber opens and closes the suction connection according to the amount of liquid entering the deaeration chamber from the siphon pipe. The riser pipe enters the siphon pipe at a point to the side of the vertex (S) of the siphon pipe. Preferably a gas riser pipe enters the deaeration chamber above the liquid level (F1) and is connected to the siphon pipe at or near its vertex.

IPC 1-7

**E03F 5/20**; E03F 5/00

IPC 8 full level

**E03F 5/00** (2006.01); **E03F 5/20** (2006.01); **F04B 49/02** (2006.01); **F04F 10/00** (2006.01)

CPC (source: EP)

**E03F 5/20** (2013.01); **F04B 49/022** (2013.01); **F04F 10/00** (2013.01); **F04B 2205/171** (2013.01); **F04B 2205/501** (2013.01); **F04B 2207/70** (2013.01)

Citation (search report)

- [AD] DE 4422127 A1 19960111 - POMMERENKE PETER [DE]
- [A] EP 0512392 A1 19921111 - KLASS GEORG [DE]
- [A] PATENT ABSTRACTS OF JAPAN vol. 10, no. 66 (M - 461) 15 March 1986 (1986-03-15)

Cited by

WO2013152837A1

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 0849410 A2 19980624**; **EP 0849410 A3 19990127**; **EP 0849410 B1 20030702**; AT E244340 T1 20030715; DE 19652585 A1 19980618; DE 19652585 C2 20000413; DE 29722112 U1 19980409; DE 59710372 D1 20030807

DOCDB simple family (application)

**EP 97122214 A 19971217**; AT 97122214 T 19971217; DE 19652585 A 19961217; DE 29722112 U 19971217; DE 59710372 T 19971217