

Title (en)  
A DEVICE FOR TRANSPORTATION OF CONDENSE BY STEAM

Title (de)  
VORRICHTUNG ZUM TRANSPORT VON KONDENSAT MITTELS DAMPF

Title (fr)  
DISPOSITIF DE TRANSPORT DE CONDENSAT PAR VAPEUR

Publication  
**EP 3049678 A4 20170712 (EN)**

Application  
**EP 13894251 A 20130925**

Priority  
BG 2013000045 W 20130925

Abstract (en)  
[origin: WO2015042670A1] The present invention relates to a device for transportation of condense by steam. According to the invention inside the vessel (1) a pilot mechanism (2) with two volume float (3) is installed. The upper volume (4) of the float ensures positive buoyancy. The change of the level of the condense inside the vessel moves the float in vertical direction that switches the pilot mechanism to allow or stop the steam income. The pilot mechanism provides or stops providing steam income to the main valves' mechanism (5), that simultaneously opens the main inlet valve and closes the main outlet valve for discharging, or closes the main inlet valve (6) and opens the main outlet valve (7) for filling, depending on the position of the float. The vessel is fed with condense through inlet check valve (8). Condense is discharged through outlet check valve (9). The proposed device ensures smooth and automatic transport of condense.

IPC 8 full level  
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**F04B 7/02** (2013.01); **F04B 9/125** (2013.01); **F04B 9/1256** (2013.01); **F04B 53/14** (2013.01); **F04F 1/06** (2013.01)

Citation (search report)

- [XDAI] EP 1841968 A1 20071010 - KALOV BOYAN [BG]
- [A] US 5401142 A 19950328 - YUMOTO HIDEAKI [JP]
- [A] CA 2509805 A1 20040701 - SPIRAX SARCO INC [US]
- See references of WO 2015042670A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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