

Title (en)  
AIR DRYING DEVICE

Title (de)  
LUFTTROCKNERVORRICHTUNG

Title (fr)  
DISPOSITIF DE SÉCHAGE D'AIR

Publication  
**EP 3775580 A4 20221012 (EN)**

Application  
**EP 18870911 A 20181024**

Priority  
• SE 1730295 A 20171025  
• SE 2018000027 W 20181024

Abstract (en)  
[origin: WO2019083422A1] Air-drying device (1) for dehumidifying air, gas, gases or the like in containers in hydraulic systems in which a variable volume of liquid and air, gas or the like is stored. The air-drying device (1) comprising at least one cooling dryer (2) comprising at least one condensation space (8) and at least one cooling element such as, for example, at least one peltier element (13). In the condensation space (8) dehumidification of air occurs through condensation into liquid which accumulates in at least one collecting container (15). The air-drying device (1) comprises at least one first inner tubular body (26) and at least one outer tubular outer body (27) between which an intermediate space (28) constitutes a channel (10) for air to the condensation space (8). The condensation space (8) directly or indirectly via at least one second channel (12) and at least one connecting device (35) communicates with the hydraulic tank. The air-drying device (1) comprises at least one end (29) connected or integrated with one end of the first tubular inner body (26) and one end of the second tubular outer body (27). The air-drying device (1) comprises at least one detachably mounted adapter (33).

IPC 8 full level  
**F15B 21/041** (2019.01); **B01D 5/00** (2006.01); **B01D 53/26** (2006.01); **F15B 1/26** (2006.01)

CPC (source: EP SE)  
**B01D 5/00** (2013.01 - SE); **B01D 5/0015** (2013.01 - EP); **B01D 5/0042** (2013.01 - EP); **B01D 53/261** (2013.01 - EP);  
**B01D 53/265** (2013.01 - EP SE); **B60H 1/00478** (2013.01 - EP); **B60H 1/3233** (2013.01 - EP); **B60H 3/024** (2013.01 - EP);  
**F15B 1/26** (2013.01 - SE); **F15B 21/041** (2013.01 - SE); **F15B 21/042** (2013.01 - SE)

Citation (search report)  
• [XY] WO 2015147718 A1 20151001 - THORDAB AB [SE]  
• [Y] MARSAN KENNEDY ET AL: "Experimental Study of Thermoelectric Refrigerator Performances: Effect of Air Flow Rate at the cold side Heat sink Thermoelectric Cooler View project Double Pipe Heat Exchanger View project Experimental Study of Thermoelectric Refrigerator Performances: Effect of Air Flow Rate at the cold side Heat", 1 November 2016 (2016-11-01), pages 15 - 18, XP055955838, Retrieved from the Internet <URL:https://www.researchgate.net/publication/327307436\_Experimental\_Study\_of\_Thermoelectric\_Refrigerator\_Performances\_Effect\_of\_Air\_Flow\_Rate\_at\_the\_cold\_side\_Heat\_sink/link/5b87c00492851c1e123b7dde/download> [retrieved on 20220829]  
• See references of WO 2019083422A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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