

Title (en)
A HEAT EXCHANGE SYSTEM

Title (de)
WÄRMEAUSTAUSCHSYSTEM

Title (fr)
SYSTÈME D'ÉCHANGE DE CHALEUR

Publication
EP 3204695 A1 20170816 (EN)

Application
EP 15848943 A 20151005

Priority
• NO 20141218 A 20141010
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Abstract (en)
[origin: WO2016056921A1] A heat exchange system comprises at least one object (6; 6'; 7; 8) to be heated or cooled, and a heat exchanger (4). The heat exchanger is connected to the at least one object via a pipe (9) and is also connected to a heat source or a cooling source. The object comprises at least one compartment (3, 13) which is fluidly connected to the heat exchanger (4) via the pipe (9), and the compartment is configured to accommodate a gas; and there is no circulation pump between the heater and the compartment. The object may be a step in a staircase, a walkway/deck element or a cargo deck element. A plurality of objects may be fluidly interconnected. The system is particularly useful as a de-icing system on a marine vessel. Other applications are possible, both on-shore and offshore. If the heat exchanger is connected to a cooling source, the compartments will work as a cooling element, by virtue of the gas-filled, closed volume.

IPC 8 full level
F24D 3/04 (2006.01); **B63J 2/12** (2006.01); **E01C 11/26** (2006.01); **F25B 23/00** (2006.01); **F25B 27/02** (2006.01); **F28D 5/00** (2006.01)

CPC (source: EP NO)
B63B 27/146 (2013.01 - EP); **B63B 29/20** (2013.01 - EP); **E01C 11/26** (2013.01 - NO); **F28D 1/053** (2013.01 - NO); **F28D 15/00** (2013.01 - EP); **F28D 20/00** (2013.01 - EP); **F28F 1/00** (2013.01 - EP); **F28F 19/006** (2013.01 - EP); **B63J 2002/125** (2013.01 - EP); **E01C 11/26** (2013.01 - EP); **F25B 23/00** (2013.01 - EP); **F25B 27/02** (2013.01 - EP); **Y02A 30/274** (2017.12 - EP); **Y02E 60/14** (2013.01 - EP)

Cited by
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