

Title (en)  
COMPRESSOR AND HEAT EXCHANGE SYSTEM

Title (de)  
VERDICHTER UND WÄRMETAUSCHSYSTEM

Title (fr)  
COMPRESSEUR ET SYSTÈME D'ÉCHANGE DE CHALEUR

Publication  
**EP 3336359 A4 20190403 (EN)**

Application  
**EP 16834490 A 20160601**

Priority  
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• CN 2016084328 W 20160601

Abstract (en)  
[origin: EP3336359A1] Disclosed is a compressor, including a crankshaft (10), and a first cylinder (20), a second cylinder (30) and a third cylinder (40) arranged sequentially in an axial direction of the crankshaft (10). The first cylinder (20) is a high-pressure cylinder, and the second cylinder (30) and the third cylinder (40) are low-pressure cylinders. The compressor also includes a capacity variation switching mechanism (50) for controlling unloading or loading of the third cylinder (40). The compressor has a full operation mode and a partial operation mode. When the compressor is in the full operation mode, the capacity variation switching mechanism (50) loads the third cylinder (40) under the action of the discharge pressure of the compressor, and when the compressor is in the partial operation mode, the capacity variation switching mechanism (50) unloads the third cylinder (40) under the action of the inlet pressure of the compressor. Also disclosed is a heat exchange system including the compressor. By means of the capacity variation switching mechanism (50) provided in the compressor, at least one cylinder is allowed to be put into use or unloaded under the action of the capacity variation switching mechanism (50), thus enabling a capacity variation switching function of the compressor to meet operational requirements of different operating conditions and to improve the heating capacity of the compressor under different working conditions.

IPC 8 full level  
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Citation (search report)  
• [XP] CN 204851640 U 20151209 - ZHUHAI GREE REFRIGERATION TECHNOLOGY CT ENERGY SAVING & ENVIRONMENTAL PROT CO LTD  
• [X] CN 204100662 U 20150114 - ZHUHAI GREE REFRIGERATION TECHNOLOGY CT ENERGY SAVING & ENVIRONMENTAL PROT CO LTD  
• [X] CN 103953544 A 20140730 - ZHUHAI GREE REFRIGERATION TECHNOLOGY CT ENERGY SAVING & ENVIRONMENTAL PROT CO LTD  
• [A] CN 203962391 U 20141126 - ZHUHAI GREE REFRIGERATION TECHNOLOGY CT ENERGY SAVING & ENVIRONMENTAL PROT CO LTD  
• See references of WO 2017024865A1

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