

Title (en)  
COMPRESSION DEVICE AND METHOD

Title (de)  
KOMPRESSIONSVORRICHTUNG UND VERFAHREN

Title (fr)  
DISPOSITIF ET PROCÉDÉ DE COMPRESSION

Publication  
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Application  
**EP 18765487 A 20180809**

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Abstract (en)  
[origin: KR20190042464A] Provided are a device and a method for centrifugal compression of a working gas, wherein the device includes: several centrifugal compressors (1, 3) forming several compression stages; and several drive motors (5, 6) for driving the compressors (1, 3). The device includes a gas circuit having a first inlet pipe (13) for the gas to be compressed, connected to an inlet of a first compressor (1). The circuit includes a second pipe (14) connected to an outlet of the first compressor (1), wherein the second pipe (14) is connected to an inlet of a second compressor (3). The circuit includes at least one third cooling pipe (15) having one end connected to the outlet of at least one of the compressors (1, 3) and at least one second end connected to an inlet of at least one motor (5, 6) for cooling thereof. The third cooling pipe (15) includes a first member (2) for cooling the gas and two parallel branches, respectively supplying two distinct motors (5, 6) of the device for their respective cooling. The present invention reduces loss caused by friction between rotors and gas.

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