

Title (en)  
Compression and cooling of a gas

Title (de)  
Verdichtung und Kühlung eines Gases

Title (fr)  
Compression et refroidissement d'un gaz

Publication  
**EP 2746641 B1 20150805 (EN)**

Application  
**EP 12198468 A 20121220**

Priority  
EP 12198468 A 20121220

Abstract (en)  
[origin: EP2746641A1] A method of treating a gas. The method comprises one or more compression step(s) in which a pressurised drive gas actuates a piston which compresses the gas, a cooling step in which expanded drive gas cools the compressed gas, and a filling step in which the cooled compressed gas, or a condensate thereof, is filled on a receiving gas cylinder. A method of recovering a gas, in which the gas is treated with the aforementioned method. A gas compression system (1). Use of an expanded drive gas from a gas compression device. A hitherto unidentified cooling capacity of expanded drive gas from a gas booster is utilized to match downstream cooling requirements of the gas compressed by the gas booster.

IPC 8 full level  
**F17C 5/06** (2006.01)

CPC (source: EP)  
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Cited by  
CN110848565A; RU2707349C1; EP3760764A1

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