

Title (en)  
MULTISTAGE COMPRESSED GAS ENGINE AND MOTOR VEHICLE

Title (de)  
MEHRSTUFIGER DRUCKGASMOTOR UND KRAFTFAHRZEUG

Title (fr)  
MOTEUR À GAZ COMPRIMÉ À PLUSIEURS ÉTAGES ET VÉHICULE À MOTEUR

Publication  
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Application  
**EP 11806267 A 20110624**

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Abstract (en)

Disclosed is a multistage compressed gas engine, comprising: impellers and at least one impeller chamber where the impeller is installed, the impellers including a first impeller and a second impeller; a plurality of working chambers being formed by the side plates on both sides between the teeth on the circumferential surface of the first and second impellers, and a plurality of gas chambers allowing relative sealing of injected gas being formed by inner surface of the impeller chamber where the impeller is installed and each of the working chambers; the impeller chamber where the first impeller is installed being provided correspondingly with a first-stage compressed gas injection hole and a first-stage compressed gas discharge hole, and the impeller chamber where the second impeller is installed being provided correspondingly with a second-stage compressed gas injection hole and a second-stage compressed gas discharge hole, the first-stage compressed gas discharge hole being connected at its output to the second-stage compressed gas injection hole. Also disclosed is a motor vehicle equipped with the above compressed gas engine.

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