

Title (en)  
Gas compression method

Title (de)  
Verfahren zum Verdichten eines Gases

Title (fr)  
Procédé de compression du gaz

Publication  
**EP 0833059 A3 19981111 (DE)**

Application  
**EP 97115766 A 19970910**

Priority  
DE 19639733 A 19960927

Abstract (en)  
[origin: EP0833059A2] The method uses a turbo compressor to compress a gas, which is at constant pressure and temperature, and variable mass flow rate, to a constant final pressure. With maximum mass flow rate the gas reaches final pressure during a main compression stage. With reduced mass flow rate, the gas is fed from main compression into secondary compression, compressed to final pressure, and then supplied for further processing. The gas is available at cryogenic temperatures and is compressed cold. The gas pressure is at underpressure levels, between the boiling point of the gas and atmospheric pressure. Main compression is multi-stage and secondary compression has a turbo compressor stage.

IPC 1-7  
**F04D 27/00**

IPC 8 full level  
**F04B 49/00** (2006.01); **F04D 23/00** (2006.01); **F04D 27/00** (2006.01); **F25B 9/00** (2006.01); **F25J 1/00** (2006.01)

CPC (source: EP)  
**F04D 23/003** (2013.01); **F04D 27/02** (2013.01)

Citation (search report)

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Designated contracting state (EPC)  
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

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**EP 0833059 A2 19980401**; **EP 0833059 A3 19981111**; DE 19639733 A1 19980416; JP H10111032 A 19980428

DOCDB simple family (application)  
**EP 97115766 A 19970910**; DE 19639733 A 19960927; JP 27498897 A 19970924