

Title (en)
GAS COMPRESSOR WITH DRIER

Title (de)
GAS KOMPRESSOR MIT TROCKNER

Title (fr)
COMPRESSEUR DE GAZ A SECHOIR

Publication
EP 1558365 A2 20050803 (EN)

Application
EP 03757569 A 20031006

Priority
• CA 0301474 W 20031006
• CA 2440255 A 20030909
• US 26509602 A 20021004

Abstract (en)
[origin: WO2004030794A2] A gas compressor unit according to the invention includes a single gas desiccant bed and condenser (which is inactive during the compression stage) inserted into the gas flow path of the compression cycle. In the case of a multistage compressor, the single gas desiccant bed is inserted between preferably the first and second stages. Moisture absorbed into this bed is periodically removed by exposing the bed to a regeneration cycle. The regeneration cycle employed is based on the closed re-circulation of gas present in the compressor and the desiccant bed itself, as well as other gas present in the re-circulation loop when the unit suspends delivery of compressed gas. Moisture removed from the desiccant bed is condensed and preferably evaporated into the environment through a semipermeable membrane. The motor and motor controller are located with the compressor in a common casing to minimize electromagnetic emissions.

IPC 1-7
B01D 53/26; **B60S 5/02**; **F02B 43/00**; **F04B 39/16**

IPC 8 full level
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Citation (search report)
See references of WO 2004030794A2

Citation (examination)
• US 6220052 B1 20010424 - TATE JR RAYMOND E [US], et al
• US 6221130 B1 20010424 - KOLODZIEJ ROBERT M [US], et al

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