

Title (en)
Gas-compressing system.

Title (de)
Gaskompressionsverfahren.

Title (fr)
Procédé pour comprimer des gaz.

Publication
EP 0233959 A1 19870902 (EN)

Application
EP 86101792 A 19860213

Priority
EP 86101792 A 19860213

Abstract (en)
Combustible fuel gas at low or moderate pressure is supplied to an inlet (55) in the top of an upright working cylinder (2 or 3). The working cylinder (2 or 3) then is filled with liquid through a bottom liquid inlet (40) to force the gas from the cylinder and direct it into a storage cylinder (5 or 22). A check valve (7 or 8) prevents backflow of gas from the storage cylinder (5 or 22) as the liquid is drained from the working cylinder (2 or 3) and as the working cylinder (2 or 3) again is filled with low or moderate pressure gas. The process of filling the working cylinder (2 or 3) with liquid to force the gas from it into the storage cylinder (5 or 22) and holding the gas in the storage cylinder (5 or 22) while the liquid is drained and the working cylinder (2 or 3) is refilled with gas is repeated until the gas in the storage cylinder (5 or 22) is a desired high pressure, such as 1500 psi or higher. Two working cylinders (2, 3) can be provided so that, as one of them is drained, the other is filled with liquid, such that gas is substantially continuously forced into the storage cylinder (5 or 22) until the desired high pressure is achieved.

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F17C 5/06

IPC 8 full level
F17C 5/06 (2006.01)

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Citation (search report)
• [A] US 4051877 A 19771004 - FLETCHER JAMES C ADMINISTRATOR, et al
• [A] DE 1136356 B 19620913 - TEVES KG ALFRED
• [A] FR 1047912 A 19531217 - BATAAFSCHE PETROLEUM

Cited by
EP0356377A1; US5029622A; GB2346938A; GB2346938B; AU762331B2; WO9736130A1; WO02101238A1

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