

Publication

EP 0138182 A3 19850619

Application

EP 84112033 A 19841008

Priority

DE 3337837 A 19831018

Abstract (en)

[origin: US4565498A] The invention discloses a rotary gas compressor for liquids which includes an impeller housing, an impeller rotatably mounted in the housing, a housing cover, a control disc arranged between the housing and the cover, and a suction intake and pressure outlet provided on the housing cover. Within the housing cover suction and pressure chambers are defined by a separating web arranged between the cover and the control disc. Into the suction chamber opens the suction intake provided on the housing cover; a suction slot provided in the control disc then provides communication with the impeller. The pressure outlet connection communicates with the pressure chamber, and a pressure slot provided in the control disc then also communicates with the impeller. One or more additional pressure apertures are arranged in the control disc adjacent to the pressure slot, and resilient valve tongues cover all of the additional pressure apertures, except for one aperture to which a pressure relief pipe is connected. The pressure relief pipe communicates at one end with the non-valved additional aperture, and at its opposite end it communicates within the pressure region of the compressor with the gas to be supplied, at a level above the liquid ring. The pressure relief pipe allows gas and/or liquid to flow in either direction for pressure relief purposes.

IPC 1-7

F04C 19/00; **F04C 29/10**

IPC 8 full level

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CPC (source: EP US)

F04C 28/28 (2013.01 - EP US); **F04C 29/122** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)

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