

Title (en)

Liquid ring compressors for subsea compression of wet gases

Title (de)

Flüssigkeitsringverdichter zur Unterwasserverdichtung von Flüssiggasen

Title (fr)

Compresseurs d'anneau liquide pour compression sous-marine de gaz humides

Publication

EP 2439412 B1 20191127 (EN)

Application

EP 11183854 A 20111004

Priority

US 90180110 A 20101011

Abstract (en)

[origin: EP2439412A2] The present disclosure is directed to liquid ring compressors that can be employed to remove liquid from a wet gas and/or to compress a wet gas. In one embodiment, a liquid ring compressor (22) includes a shaft (64), a main body inner casing (62) disposed about the shaft (64) to form a chamber (72) between the shaft (64) and the main body inner casing (62), and an inlet (42) configured to remove a portion of liquid from a wet gas and to direct the wet gas into the chamber (72). The liquid ring compressor (22) also includes an impeller (66) rotatably disposed within the chamber (72) and configured to direct a remaining portion of the liquid in the wet gas out towards the main body inner casing (62) to form a liquid ring (96) within the chamber to compress the wet gas.

IPC 8 full level

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CPC (source: EP US)

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