

Title (en)
APPARATUS AND METHOD

Title (de)
VORRICHTUNG UND VERFAHREN

Title (fr)
APPAREIL ET PROCÉDÉ

Publication
EP 3786453 A1 20210303 (EN)

Application
EP 19194992 A 20190902

Priority
EP 19194992 A 20190902

Abstract (en)
The application relates to an apparatus (10) and a method for generation of a partial vacuum within a sealed volume. The apparatus comprises a twin screw compressor (30), having an inlet (8) communicable with a sealed volume and an outlet. The twin screw compressor (30) is operable to accept fluid through the inlet (8), compress the fluid and vent the compressed fluid through the outlet. A valve member (1) is associated with the twin screw compressor (30) and movable to vary the outlet volume, and is actuatable automatically in response to an inlet/outlet pressure differential. Advantageously, the apparatus (10) provides a means for automatically controlling the effective inbuilt volume ratio of a screw compressor without requiring a separate valve control system.

IPC 8 full level
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F04C 18/16 (2013.01); **F04C 25/02** (2013.01); **F04C 28/12** (2013.01); **F04C 2220/10** (2013.01); **F04C 2270/215** (2013.01)

Citation (search report)

- [Xl] EP 3524818 A1 20190814 - MAEKAWA SEISAKUSHO KK [JP]
- [Xl] WO 2013146674 A1 20131003 - KOBÉ STEEL LTD [JP]
- [X] US 8801395 B2 20140812 - HEIMONEN TIMOTHY KEENE [US]
- [Xl] US 6123510 A 20000926 - GREER MARK R [US], et al

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Designated extension state (EPC)
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