

Title (en)
METHOD FOR COMPRESSING A GAS MIXTURE COMPRISING NEON

Title (de)
VERFAHREN ZUM VERDICHTEN GASMISCHUNG UMFASSEND NEON

Title (fr)
PROCÉDÉ DE COMPRESSION D'UN MÉLANGE DE GAZ COMPRENANT DU NÉON

Publication
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Application
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Abstract (en)
The present invention relates to a method for compressing a gas mixture comprising neon, in a closed-loop cycle. The method comprises: providing a flow of the gas mixture and providing a compression device having at least one gas seal (33) and providing a gas seal flow to the at least one gas seal. The gas mixture is then compressed in the compression device, thereby forming a compressed gas mixture. A composition of the gas mixture is measured in at least one location. The method further comprises comparing the measured composition of the gas mixture with respect to a predetermined value or range, and determining if there is a deviation from the predetermined value or range. When a deviation from the predetermined value is determined at least one operating parameter of the process cycle is adjusted to optimise the parameter for the change in composition; and/or the composition of the gas mixture in the cycle is adjusted, so that the measured composition of the gas mixture no longer deviates from the predetermined value or range.

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Citation (search report)
• [A] US 6523366 B1 20030225 - BONAQUIST DANTE PATRICK [US], et al
• [A] EP 2211124 A1 20100728 - IHI CORP [JP]
• [A] DE 102012021637 A1 20140508 - LINDE AG [DE]
• [A] US 2009151391 A1 20090618 - HUANG SHAWN S [US], et al
• [X] US 2010254811 A1 20101007 - KUZDZAL MARK JOSEPH [US], et al

Cited by
WO2018219964A1; FR3119883A1; WO2022175204A1

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