

Title (en)
A PRESSURE CONTROLLED CONNECTION

Title (de)
DRUCKGESTEUERTE VERBINDUNG

Title (fr)
CONNEXION À PRESSION RÉGULÉE

Publication
EP 3276246 A1 20180131 (EN)

Application
EP 16001683 A 20160729

Priority
EP 16001683 A 20160729

Abstract (en)
A connecting device comprises: - a gas cylinder for storing pressurized gas which has a pierceable gas outlet - a container adapted to hold the gas cylinder inside which has a female threading portion - a diffusion member to release the pressurized gas from the gas cylinder in a controlled manner, the diffusion member comprising, a piercing member to pierce the gas outlet of the gas cylinder and lead the pressurized gas from the gas cylinder to the diffusion member, a gas outlet to deliver the gas from the diffusion member to at least one consumer, a male threading portion which corresponds to the female threading portion of the container, wherein the container comprises a ratchet gear and the diffusion member further comprises: an indicator pin which comprises a shaft, a housing and a spring, wherein the shaft is positioned inside the housing and the spring is fitted around the shaft, a gas communication between the piercing member and the valve, a slider provided with a slider spring which is slideable and possesses a chamber which is sized to accommodate the shaft of the valve, a pawl provided with a pawl spring which is attached with the slider to be moveable as the slider, wherein the pawl matches the ratchet gear of the container, and after the pawl has engaged the ratchet gear by screwing the container onto the diffusion member, no turn back is possible, wherein the slider has at least one lock position and one unlock position, wherein the lock position is achieved when the shaft of the indicator pin is pushed into the chamber of the slider by the pressure inside the diffusion member, and at the unlock position the slider disengages the pawl from the ratchet gear to be able to unscrew the container from the diffusion member.

IPC 8 full level
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Citation (applicant)
US 6843388 B1 20050118 - HOLLARS ANTHONY SCOTT [US]

Citation (search report)
• [XA] US 2015153004 A1 20150604 - STENZLER ALEX [US], et al
• [A] US 2013174928 A1 20130711 - DANIELSON ROBERT [US]
• [A] EP 3037158 A1 20160629 - LINDE AG [DE]
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Cited by
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