

Title (en)

Station for supplying pressurized gas to tanks, in particular tanks installed on vehicles

Title (de)

Tankstelle zur Abgabe von Druckgas zum Behälter, vorzugsweise zum Autobehälter

Title (fr)

Station de fourniture de gaz comprimé à des réservoirs, en particulier des réservoirs montés sur des véhicules

Publication

EP 1447614 A2 20040818 (EN)

Application

EP 04002861 A 20040210

Priority

IT BO20030061 A 20030212

Abstract (en)

Station for supplying pressurized gas to tanks, in particular to tanks installed on vehicles, includes an electric unit (1), fed by an electric main (L) and aimed at supplying at the outlet, in accordance with the control and command signals of a command and control unit (C), to which it is connected, an electric voltage of adjustable effective value (V 0) and frequency (f 0). An electric motor (M) is powered by the electric unit. A compression unit (Y) is operated by the shaft of the motor (M), and its aspiration is connected to a low pressure gas main (AM). A reference tank (P) is connected to the delivery of the compression unit (Y). A device (D) for delivering the pressurized gas is connected to the reference tank (P), and it has connectors (U1, U2, ..., Un), which can be connected to as many users (K). At least one sensor (R) for measuring pressure inside said tank (P) is connected to the command and control unit (C), which compares a selected pressure value with the pressure value measured by the sensor, and commands the electric unit (1) in relation to the pressure difference between the selected and measured values, with a consequent activation of the compression unit (Y), in which the working cycles in time unit depend on the effective value (V 0) and frequency (f 0) of the motor (M) power voltage.

IPC 1-7

F17C 5/00

IPC 8 full level

F17C 5/00 (2006.01); **F17C 5/06** (2006.01); **F17C 7/00** (2006.01); **F17C 13/02** (2006.01)

CPC (source: EP)

F17C 5/007 (2013.01); **F17C 5/06** (2013.01); **F17C 7/00** (2013.01); **F17C 13/025** (2013.01); **F17C 13/026** (2013.01); **F17C 2221/033** (2013.01); **F17C 2223/0123** (2013.01); **F17C 2223/033** (2013.01); **F17C 2223/035** (2013.01); **F17C 2225/0123** (2013.01); **F17C 2225/036** (2013.01); **F17C 2227/0157** (2013.01); **F17C 2227/0185** (2013.01); **F17C 2227/0344** (2013.01); **F17C 2227/0348** (2013.01); **F17C 2227/0388** (2013.01); **F17C 2227/04** (2013.01); **F17C 2250/032** (2013.01); **F17C 2250/043** (2013.01); **F17C 2250/0439** (2013.01); **F17C 2250/0491** (2013.01); **F17C 2250/0626** (2013.01); **F17C 2250/0631** (2013.01); **F17C 2250/0689** (2013.01); **F17C 2260/023** (2013.01); **F17C 2260/025** (2013.01); **F17C 2265/065** (2013.01); **F17C 2270/0139** (2013.01)

Citation (applicant)

EP 0300222 A1 19890125 - SULZER AG [CH]

Cited by

CN111486344A; JP2017115909A

Designated contracting state (EPC)

BG ES GR IT PT TR

Designated extension state (EPC)

AL LT LV MK

DOCDB simple family (publication)

EP 1447614 A2 20040818; **EP 1447614 A3 20110406**; IT BO20030061 A1 20040813

DOCDB simple family (application)

EP 04002861 A 20040210; IT BO20030061 A 20030212