

Title (en)
PLANT FOR SEQUESTRATION OF CARBON DIOXIDE

Title (de)
ANLAGE ZUR SEQUESTRIERUNG VON KOHLENDIOXID

Title (fr)
INSTALLATION POUR LE STOCKAGE DE DIOXYDE DE CARBONE

Publication
EP 3227597 A1 20171011 (EN)

Application
EP 15823383 A 20151126

Priority
• IT MI20142063 A 20141201
• IB 2015059150 W 20151126

Abstract (en)
[origin: WO2016088002A1] The invention relates to a plant 100 and an apparatus 10 for the sequestration of carbon dioxide C02. The apparatus comprises a loading device 12 and a tube 14. The loading device comprises in turn a chamber 123, pressurization means 16, filling means 126 and sealing means 127. The loading device is immersed, during use, in an external low-pressure environment. Inside the loading device: the chamber is designed to be opened towards the external environment in order to receive a container at its inlet; the chamber is designed to be hermetically closed off from the low-pressure external environment; the pressurization means are designed to increase the pressure inside the chamber until a high working pressure is reached; the chamber is designed to withstand the difference between the external pressure and the internal pressure; the filling means are designed to fill the container with C02; the sealing means are designed to close the container full of C02; the chamber is designed to be opened towards the tube at the design pressure so as to release the container 30 full of C02. The invention also relates to a method for sequestration of carbon dioxide C02.

IPC 8 full level
F17C 5/06 (2006.01)

CPC (source: EP)
F17C 5/06 (2013.01); **F17C 2201/0128** (2013.01); **F17C 2201/056** (2013.01); **F17C 2201/058** (2013.01); **F17C 2203/0617** (2013.01); **F17C 2203/0658** (2013.01); **F17C 2203/0663** (2013.01); **F17C 2203/0692** (2013.01); **F17C 2221/013** (2013.01); **F17C 2223/0115** (2013.01); **F17C 2223/0123** (2013.01); **F17C 2223/0138** (2013.01); **F17C 2223/0153** (2013.01); **F17C 2223/033** (2013.01); **F17C 2223/035** (2013.01); **F17C 2223/036** (2013.01); **F17C 2227/0157** (2013.01); **F17C 2260/044** (2013.01); **F17C 2270/0102** (2013.01)

Citation (search report)
See references of WO 2016088002A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2016088002 A1 20160609; EP 3227597 A1 20171011

DOCDB simple family (application)
IB 2015059150 W 20151126; EP 15823383 A 20151126