

Title (en)
GAS-SAVING DEVICE

Title (de)
GASSPARVORRICHTUNG

Title (fr)
DISPOSITIF ÉCONOMISEUR DE GAZ

Publication
EP 3147572 B1 20210113 (EN)

Application
EP 15777344 A 20150312

Priority
• ES 201430523 A 20140408
• ES 2015070175 W 20150312

Abstract (en)
[origin: EP3147572A1] The present invention consists of a saving gas device which, being placed downstream of the pressure regulator and upstream of the consuming devices, in a natural gas or liquefied petroleum gases supply facility, improves the gas consumption efficiency by means of a recirculation, filtering and centrifugation process. The action exerted on the steam trap of the device, retains the impurities the gas contains, thus improving retention of particles and achieving the gas to come out substantially pure, as well as achieving gas molecules rearrangement by means of a centrifugation coil, obtaining flow stabilization and improving the circulation thereof.

IPC 8 full level
F24C 3/12 (2006.01); **F23D 14/68** (2006.01); **F23K 5/00** (2006.01); **F23K 5/18** (2006.01)

CPC (source: EP US)
F23D 14/68 (2013.01 - EP US); **F23K 5/007** (2013.01 - EP US); **F23K 5/18** (2013.01 - US); **F24C 3/12** (2013.01 - EP US);
F23K 5/02 (2013.01 - US); **F23K 2400/10** (2020.05 - EP US); **F23K 2400/20** (2020.05 - EP US)

Citation (examination)
US 3394533 A 19680730 - SHENG LI YI, et al

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

DOCDB simple family (publication)
EP 3147572 A1 20170329; EP 3147572 A4 20180307; EP 3147572 B1 20210113; ES 2547957 A1 20151009; ES 2547957 B1 20160429;
ES 2879048 T3 20211119; MX 2016012807 A 20170105; MX 362395 B 20190115; PT 3147572 T 20210419; US 2017184305 A1 20170629;
WO 2015155388 A1 20151015

DOCDB simple family (application)
EP 15777344 A 20150312; ES 15777344 T 20150312; ES 201430523 A 20140408; ES 2015070175 W 20150312; MX 2016012807 A 20150312;
PT 15777344 T 20150312; US 201515302026 A 20150312