

Title (en)
COMPRESSOR ANTI-SURGE PROTECTION UNDER WET GAS CONDITIONS

Title (de)
PUMPSCHUTZ FÜR VERDICHTER UNTER FEUCHTEN GASBEDINGUNGEN

Title (fr)
PROTECTION CONTRE POMPAGE POUR COMPRESSEUR DANS DES CONDITIONS DE GAZ HUMIDE

Publication
EP 3482081 B1 20231122 (EN)

Application
EP 17734763 A 20170706

Priority
• IT 201600070852 A 20160707
• EP 2017066909 W 20170706

Abstract (en)
[origin: WO2018007509A1] A method for anti-surge protection of a compressor (7) under wet gas conditions is described. The compressor comprises a suction side (7S) and a delivery side (7D). An anti-surge system is arranged between the delivery side and the suction side of the compressor. The method comprises the following steps: calculating a surge limit line in a compression ratio vs. corrected power diagram; determining a compressor operating point in said compression ratio vs. corrected power diagram; detecting a distance between the operating point and the surge limit line; acting on the anti-surge system of the compressor if the distance is below a minimum safety distance.

IPC 8 full level
F04D 27/02 (2006.01); **F04D 31/00** (2006.01)

CPC (source: EP KR US)
F04D 27/0207 (2013.01 - EP KR US); **F04D 31/00** (2013.01 - EP KR); **F04D 31/00** (2013.01 - US); **F05D 2210/13** (2013.01 - KR); **F05D 2270/101** (2013.01 - KR)

Citation (examination)
EP 2325494 A1 20110525 - GEN ELECTRIC [US]

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)
WO 2018007509 A1 20180111; DK 3482081 T3 20240129; EP 3482081 A1 20190515; EP 3482081 B1 20231122;
IT 201600070852 A1 20180107; JP 2020500270 A 20200109; JP 6979977 B2 20211215; KR 102371876 B1 20220308;
KR 20190022818 A 20190306; US 2019301478 A1 20191003

DOCDB simple family (application)
EP 2017066909 W 20170706; DK 17734763 T 20170706; EP 17734763 A 20170706; IT 201600070852 A 20160707;
JP 2018567687 A 20170706; KR 20197002760 A 20170706; US 201716315529 A 20170706