

Title (en)

GAS TURBINE EFFICIENCY AND REGULATION SPEED IMPROVEMENTS USING SUPPLEMENTARY AIR SYSTEM

Title (de)

GASTURBINENEFFIZIENZ- UND -REGULIERUNGSGESCHWINDIGKEITSVERBESSERUNGEN MITHILFE EINES SYSTEMS FÜR ZUSÄTZLICHE LUFT

Title (fr)

AMÉLIORATIONS APPORTÉES À LA VITESSE DE RÉGULATION ET AU RENDEMENT D'UNE TURBINE À GAZ À L'AIDE D'UN SYSTÈME D'AIR SUPPLÉMENTAIRE, SYSTÈMES CONTINUS ET DE STOCKAGE ET LEURS PROCÉDÉS D'UTILISATION

Publication

**EP 3129620 A1 20170215 (EN)**

Application

**EP 15775958 A 20150326**

Priority

- US 201414350469 A 20140408
- US 201414329340 A 20140711
- US 2015022756 W 20150326

Abstract (en)

[origin: WO2015157012A1] The present invention discloses a novel apparatus and methods for augmenting the power of a gas turbine engine, improving gas turbine engine operation, and reducing the response time necessary to meet changing demands of a power plant. Improvements in power augmentation and engine operation include additional heated compressed air injection, steam injection, water recovery, exhaust tempering, fuel heating, and stored heated air injection.

IPC 8 full level

**F02C 6/16** (2006.01); **F02C 7/224** (2006.01)

CPC (source: EP)

**F02C 3/305** (2013.01); **F02C 6/02** (2013.01); **F02C 6/18** (2013.01); **F02C 7/224** (2013.01); **F05D 2260/85** (2013.01); **Y02E 20/14** (2013.01); **Y02E 20/16** (2013.01)

Citation (search report)

See references of WO 2015157012A1

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 2015157012 A1 20151015**; CN 106460664 A 20170222; CN 106460664 B 20210312; EA 033060 B1 20190830; EA 201692024 A1 20170428; EP 3129620 A1 20170215; MX 2016013250 A 20170216; MY 185627 A 20210526; SA 516380044 B1 20220328

DOCDB simple family (application)

**US 2015022756 W 20150326**; CN 201580029128 A 20150326; EA 201692024 A 20150326; EP 15775958 A 20150326; MX 2016013250 A 20150326; MY PI2016703711 A 20150326; SA 516380044 A 20161009