

Title (en)
COMPRESSED AIR ENERGY SYSTEM

Title (de)
DRUCKLUFT-ENERGIESYSTEM

Title (fr)
SYSTÈME D'ÉNERGIE À AIR COMPRIMÉ

Publication
EP 3701617 A4 20221012 (EN)

Application
EP 18888081 A 20181211

Priority
• ZA 201708356 A 20171211
• IB 2018059852 W 20181211

Abstract (en)
[origin: WO2019116210A1] This invention relates to an energy system and apparatus and more particularly relates to a compressed air energy system (10) and apparatus which includes a power supply means in drive communication with an output demand means via a motor/pump combination (14), a piston assembly (18) powered by and in drive communication with the motor/pump combination (14), and storage means (15) in flow communication with the piston assembly (18) and the motor/pump combination (14).

IPC 8 full level
H02J 15/00 (2006.01)

CPC (source: EP)
B60L 50/30 (2019.01); **B60L 50/90** (2019.01); **F01K 3/06** (2013.01); **F01K 7/36** (2013.01); **F01K 13/00** (2013.01); **H02J 15/006** (2013.01); **B60L 2240/662** (2013.01); **H02J 2310/40** (2020.01); **Y02T 10/70** (2013.01); **Y02T 10/72** (2013.01); **Y02T 90/16** (2013.01)

Citation (search report)
• [XA] US 2015322874 A1 20151112 - SCUDERI NICHOLAS JOSEPH [US], et al
• [XAI] US 2011138797 A1 20110616 - BOLLINGER BENJAMIN R [US], et al
• [A] US 2011131966 A1 20110609 - MCBRIDE TROY O [US], et al
• [A] HOUSAINY SAMMY ET AL: "Thermodynamic analysis of a high temperature hybrid compressed air energy storage (HTH-CAES) system", RENEWABLE ENERGY, PERGAMON PRESS, OXFORD, GB, vol. 115, 12 September 2017 (2017-09-12), pages 1043 - 1054, XP085234620, ISSN: 0960-1481, DOI: 10.1016/J.RENENE.2017.09.038
• See references of WO 2019116210A1

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 2019116210 A1 20190620; EP 3701617 A1 20200902; EP 3701617 A4 20221012

DOCDB simple family (application)
IB 2018059852 W 20181211; EP 18888081 A 20181211