

Title (en)
COMPRESSED AIR ENERGY SYSTEM

Title (de)
DRUCKLUFT-ENERGIESYSTEM

Title (fr)
SYSTÈME D'ÉNERGIE À AIR COMPRIMÉ

Publication
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Application
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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).

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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] HOUSSAINY 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

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