

Title (en)
ENERGY CONVERSION METHOD, PARTICULARLY OF THE HYBRID THERMODYNAMIC CYCLE TYPE, AND THERMODYNAMIC MACHINE

Title (de)
ENERGIEUMWANDLUNGSVERFAHREN, INSBESONDERE VOM TYP DES HYBRIDEN THERMODYNAMISCHEN ZYKLUS, UND THERMODYNAMISCHE MASCHINE

Title (fr)
PROCÉDÉ DE CONVERSION D'ÉNERGIE, EN PARTICULIER DU TYPE À CYCLE THERMODYNAMIQUE HYBRIDE, ET MACHINE THERMODYNAMIQUE

Publication
EP 3995674 A1 20220511 (EN)

Application
EP 21197975 A 20210921

Priority
IT 202000026245 A 20201104

Abstract (en)
An energy conversion method, particularly of the hybrid thermodynamic cycle type, characterized in that it comprises the following steps:- isothermal compression of a thermodynamic fluid, from a first pressure "p1" to a second pressure "p2";- adiabatic compression of the thermodynamic fluid from the second pressure "p2" to a third pressure "p3", in the absence of heat exchange, with consequent increase of the temperature from a first temperature "T1" to a second temperature "T2";- isobaric thermal regeneration of the thermodynamic fluid with increase of the temperature from the second temperature "T2" to a third temperature "T3";- isobaric heating of the thermodynamic fluid from the third temperature "T3" to a fourth temperature "T4";- isothermal expansion of the thermodynamic fluid from the third pressure "p3" to a fourth pressure "p4";- adiabatic expansion of the thermodynamic fluid from the fourth pressure "p4" to a fifth pressure "p5", in the absence of heat exchange, with consequent reduction of the temperature from the fourth temperature "T4" to a fifth temperature "T5";- thermal regeneration of the thermodynamic fluid with reduction of the temperature from the fifth temperature "T5" to a sixth temperature "T6".

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Citation (search report)
• [X] EP 3505756 A1 20190703 - ITSUNLIMITED SYSTEMS ENG B V TRADING AS NGENI [NL]
• [A] CN 203783656 U 20140820 - MENG NING
• [A] US 9574502 B1 20170221 - FLUHLER HERBERT U [US]

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