

Title (en)

Apparatus for generating electric energy using hydrogen storage alloy.

Title (de)

Vorrichtung zur Erzeugung elektrischer Energie mit Hilfe einer Wasserstoff speichernden Legierung.

Title (fr)

Appareil de production d'énergie électrique utilisant un alliage pouvant stocker de l'hydrogène.

Publication

EP 0370587 A2 19900530 (EN)

Application

EP 89203332 A 19870319

Priority

- EP 89203332 A 19870319
- JP 31561486 A 19861223

Abstract (en)

An electric generator (4) operatively connected to a gas turbine (3) is driven by driving the gas turbine (3) with high pressure hydrogen (8) released from a hydrogen storage alloy which is contained in a first zone (1) and which is heated by indirect heat exchange (5) with a heating medium (18) while reabsorbing the hydrogen discharged from the gas turbine (3) in a hydrogen storage alloy which is contained in a second zone (2) and which is cooled by indirect heat exchange (6) with a cooling medium (19). By switching the flows of the heating and cooling media alternately, an electric energy may be continuously obtained from the electric generator (4). The electric generator (4) is characterized by the provision of means preheating and cooling of the hydrogen whereby a steady level of electric energy can be generated.

IPC 1-7

F01K 25/00

IPC 8 full level

F01K 25/00 (2006.01)

CPC (source: EP)

F01K 25/00 (2013.01)

Cited by

EP1930558A1

Designated contracting state (EPC)

DE NL SE

DOCDB simple family (publication)

EP 0370587 A2 19900530; EP 0370587 A3 19900627; EP 0370587 B1 19930721

DOCDB simple family (application)

EP 89203332 A 19870319