

Title (en)  
MECHANICAL-TO-ELECTRICAL ENERGY CONVERTER

Publication  
**EP 0239820 B1 19891018 (FR)**

Application  
**EP 87103046 A 19870304**

Priority  
CH 124786 A 19860326

Abstract (en)  
[origin: EP0239820A1] 1. A mechanical-to-electrical energy converter which comprises : - an electrical energy generator (2; 30; 50) having a rotor (3) and means (6, 7; 40, 41, 7) for generating said electrical energy in response to rotation of said rotor (3) ; - means (8) for storing at least temporarily said electrical energy ; - a mechanical energy source (1) connected mechanically to said rotor (3) and able to generate a mechanical driving torque for driving said rotor (3) at a first speed greater than a predetermined set speed in the absence of any other influence ; - means (21, 22; 22'; 22"; 54, 55) for generating a periodic reference signal having a period equal to the ratio between a predetermined angle of rotation of said rotor (3) and said set speed ; - means (23 to 28; 23, 24', 25', 26 to 29; 23, 24", 25", 26, 27, 28"; 56, 59) for generating a control signal having a first and a second state ; and - means (11; 11') for electrically braking said rotor (3) able to respond to said first state of the control signal to cause the application to said rotor (3) of a braking torque opposed to said mechanical driving torque and imposing on said rotor (3) a second speed lower on average than said set speed and able to respond to said second state of the control signal to stop said application to the rotor (3) of said braking torque ; characterized in that said means (23 to 28; 23, 24', 25', 26 to 29; 23, 24", 25", 26, 27, 28"; 56, 59) for generating a control signal include means (23, 56) for putting said control signal into one of said states at each one of a plurality of first instants that follow each other periodically with a period equal to that of said reference signal, and means (24 to 28; 24', 25', 26 to 29; 24", 25", 26, 27, 28"; 59) for putting said control signal into the other of said states at second instants, each separated from the immediately preceding first instant by a time interval having a duration less than said reference signal period.

IPC 1-7  
**G04C 10/00; G04C 11/00**

IPC 8 full level  
**G04B 17/00** (2006.01); **G04C 3/14** (2006.01); **G04C 10/00** (2006.01); **G04G 7/00** (2006.01); **H02J 7/00** (2006.01)

CPC (source: EP)  
**G04C 10/00** (2013.01); **G04G 7/00** (2013.01)

Cited by  
EP0982638A1; EP0695978A1; EP1041464A3; EP1048990A4; US6041021A; EP0875807A1; US5881027A; EP0816955A1; EP0905588A3; US6113259A; DE3903706A1; EP0822470A1; FR2752070A1; US5751666A; EP1048989A4; EP0905587A1; US6097675A; US5615178A; US6603236B2; US6169709B1; US6795378B2; US6483276B1; US9746831B2; US6477116B1; US6373788B1; WO9709657A1; WO0029911A1; EP0695978B1; US6744699B2; US6252828B1; USRE38110E; US9348316B2; US6373789B2; US6194878B1; US6208119B1; EP2264555A1; US8179012B2

Designated contracting state (EPC)  
CH DE FR GB LI

DOCDB simple family (publication)  
**EP 0239820 A1 19871007; EP 0239820 B1 19891018**; CH 665082G A3 19880429; DE 3760835 D1 19891123; JP H07119812 B2 19951220; JP S62255889 A 19871107

DOCDB simple family (application)  
**EP 87103046 A 19870304**; CH 124786 A 19860326; DE 3760835 T 19870304; JP 7052187 A 19870326